



AIRPORTS AUTHORITY OF INDIA

PAKYONG AIRPORT

NOTICE INVITING E-TENDER

Name of the work: Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.

(Tender ID: 2026_AAI_283341_1)



AIRPORTS AUTHORITY OF INDIA
PAKYONG AIRPORT, PAKYONG

DRAFT

NOTICE INVITING E-TENDER

Name of the work: Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.

ESTIMATED COST: Rs. 38,85,567/-

Completion Period: 90 Days

AIRPORTS AUTHORITY OF INDIA
DIRECTORATE OF ENGINEERING
TENDER DOCUMENT

Name of work: Provision of Joint Filling with Polysulphide sealant, Surebond and run patch, etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.”

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This tender document contains 320 pages.

BID MANAGER
Senior Manager (Engg.-Civil) AAI,
Pakyong Airport, Pakyong,
Sikkim-737106

AIRPORTS AUTHORITY OF INDIA
PAKYONG AIRPORT

Ref No.: - AAI/PKNG/SM(C)/Polysulphide Sealant/

Date: -08/07/2026

NOTICE INVITING e-TENDER (2 BOT- 2 Envelope Open Tender)

TENDER ID:- 2026 AAI 283341 1

1. Item rate /~~Percentage rate~~/ EPC e-tenders are invited through the e-tendering CPP portal by **Senior Manager (Engg.-C), Airports Authority of India, Pakyong Airport, Pakyong, Pakyong -737106 (Bid Manager)** on behalf of Chairman, AAI from the eligible contractors for the work/ ~~composite work~~ of “ **Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.**” at an estimated cost of **Rs. 38,85,567/- (excluding GST) with completion period of 90 Days.**

The tendering process is online at CPP Portal URL address **<http://etenders.gov.in/eprocure/app>** or **www.aai.aero**. Prospective Tenders may download and go through the tender document.

Prospective Tenderers are advised to register themselves at CPP- portal, obtain ‘Login ID’ & ‘Password’ and go through the instructions available in the Home Page after log in to the CPP-portal **<http://etenders.gov.in/eprocure/app>** or **www.aai.aero**. They should also obtain Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application. The process normally takes 03 days of time. The tenderer may also take guidance from AAI Help Desk Support through path **[aai.aero/tender/e-tender/help_desk support](http://aai.aero/tender/e-tender/help_desk_support)**.

- (i) For any technical related queries please call the helpdesk. The 24 X 7 Help Desk details are as below: -
Tel: 0120-4711508, 0120-4001002, 0120-4001005, 0120-6277787
Email: **support-eproc@nic.in**
International bidders are requested to prefix 91 as country code.

Tenderers are requested to mention the URL of the portal and Tender ID in the subject while emailing any issue along with the contact details.

Before submitting queries, bidders are requested to follow the instruction given in “**Guidelines to Bidders**” and get their computer system configured according to there commended settings as specified in the portal at “**System Settings for CPPP**”.

- (ii) For any further technical assistance with regard to functioning of CPP portal the Tenderer may contact to the following AAI help desk no. on all working days only between :-

Sl. No.	Support Persons	Escalation Matrix	E-mail Address	Contract Numbers	Timings*
1	Technical Help Desk	Instant Support	<u>eprochelp@aai.aero</u>	011-24632950	0800-2000 Hrs.(MON-

	Team			Ext. 3512	SAT)
2	JE(IT)	After 4 Hrs. of Issue	etendersupport@aai.aero or vaibhav_g@aai.aero	011- 24632950 Ext. 3523	0930-1800 Hrs. (MON- FRI)
3	Sr. Manager (IT)	After 12 Hrs.	shripatim@aai.aero	011- 24632950 Ext. 3509	0930-1800 Hrs. (MON- FRI)
4	Jt. GM(IT)	After 12 Hrs.	Sunil.km@aai.aero	011- 24632950 Ext. 3506	0930-1800 Hrs. (MON- FRI)
5	General Manager (IT)	After 03 Days.	gmit@aai.aero	011- 24657900	0930-1800 Hrs. (MON- FRI)

* The help desk services shall remain closed on all Govt. Gazetted Holidays.

Tender processing fee of Rs. 1180/- (i/c GST) Non-refundable will be required to be paid online on CPP Portal only.

Earnest Money Deposit (EMD) of Rs. 1,16,567/- will be required to be paid online on CPP portal only.

- Following 2 envelopes shall be submitted through online at CPP-portal by the Tenderer as per the following schedule: -

CRITICAL DATE SHEET

Publishing Date	08.07.2026
Bid Document Download / Sale Start Date	09.07.2026 from 09:30 hrs.
Clarification Start Date	09.07.2026 from 09:30 hrs.
Clarification End Date	19.07.2026 upto 18:00 hrs.
Bid Submission Start Date	09.07.2026 from 09:30 hrs.
Bid Submission End Date	29.07.2026 upto 18:00 hrs.
Bid Opening Date (Envelope- I)	31.07.2026 at 11:00 hrs.
Bid Opening Date (Envelope- II)	To be intimate latter through CPP portal.

Note:- If the bidder has any query related to the Bid Document of the work, they should use 'Seek Clarification' on CPP portal to seek clarifications. No other means of communication in this regard shall be entertained.

Envelope-I (Technical Bid and Pre-qualification):- Bid Containing following:-

A. Technical Bid containing the following:

- i) Scanned copy of Tender Acceptance Letter on Bidder's Letter Head. (As per Annexure 1 on page PR-1)
- ii) Scanned Copy of Permanent Account Number (PAN) and GST Registration Number.
- iii) Scanned Copy of 'Undertaking' regarding Blacklisting/Debarment on Bidder's Letter Head. (As per Annexure 2 on page PR-2)
- iv) Scanned copy of Form- A - details of similar works completed during last seven years supported with completion certificate issued by client. (refer page PR-4)
- v) Scanned copy of Form- B - Financial Information (refer page PR-5)
- vi) Scanned copy of Form- C – Net Worth. (refer page PR-6)
- vii) Bidder shall submit scanned copy of 'Undertaking' on Company's Letter Head for deployment sufficient plant and machinery (refer page PR-8)
- viii) Bidders other than propriety firm shall submit, scanned copy of Authorization Letter/Power of Attorney along with copy of Certificate of Incorporation of the Company under Companies Act showing CIN/LLPIN/Name of Directors of the Company & Copy of Board Resolution regarding Authority to assign Power of Attorney.
Proprietary firm shall submit scanned copy of Authorization Letter/Power of Attorney only if the tender is processed by a person other than proprietor.
- ix) PQ Performa duly filled. (as annexed at page PQ-1 to PQ-4)

B. Qualifying requirements of contractors/tenderers containing the following: -

Should have successfully completed or *substantially completed three works, each of **Rs. 15,54,227/-** or two works, each of **Rs. 19,42,784/-** or one work of **Rs. 31,08,454/-** in single contract of similar nature of General civil works during last 07 (seven) years ending last day of month previous to the one in which tenders are invited.

The details of similar works completed during last seven years in the given format- **Form-A** with supporting documents issued by client.

Note:

1. *The Experience Certificates of works completed pre GST era, Completion amount will be divided by 1.12 (to exclude pre GST taxes) to make it at par with experience certificates of post GST era but excluding GST.*
- ~~2. The Tenders invited for Annual Rate Contracts for O&M/ AMC/ CMC works, agency having experience of completed AMC contract of more than one year shall be counted for the value of work for a completed one year on pro-rata basis. However, the agency who has completed one year of work in running AMC contract of more than one year, may be counted for the value of work for a completed one year on pro-rata basis.~~
3. *Experience gained by executing work on back-to-back contract/ Sub-contract basis is acceptable in the following conditions:*
 - (a) *Work should be actually executed by the second agency (sub-contractor) with due concurrence of the owner as tripartite agreement/ written approval. It should be backed by valid agreement and experience certificate.*
 - (b) *Payments received by second agency should be reflected in TDS certificates.*
4. *Experience gained in composite works for the specialized nature of works (List of Specialized Items / Jobs/ Works are mentioned at Para 35.3 of AAI Works*

Manual) were executed by main contractor either by in-house expertise & experience or by engaging the specialized agencies with the approval of main client as per contract conditions. In such cases, main contractor as well as specialized agency both get the experience certificate for the same work from their respective client(s) i.e. main contractor for composite work along with specialized works from owner and specialized agency for specialized work(s) from the main contractor. In this situation, the experience certificate of either specialized agency or main agency having in-house expertise & experience, who has actually executed the specialized work(s), shall be considered for Technical /Pre-qualifying criteria in similar specialized nature of work(s).

5. **Substantial completion shall be based on 80 (eighty) percent (value wise) or more work completed under the contract. Substantial completion should not be defined in terms of percentage completion, rather it should be based on functional consideration.*

Certificate for 'substantial completion' of project/ work/ assets should contain two parts. Part-I shall contain 'function value of work done' and part-II shall contain 'certificate of functional completion of project/ work/ assets.'

"The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the date of bid opening (Cover-I/Technical bid)."

Client certificate for experience should show the nature of work done, the value of work, date of start, date of completion as per agreement, actual date of completion and satisfactorily completion of work. **Tenderers showing work experience certificate from non-government / non-PSU organizations should submit copy of tax deduction at sources (TDS) certificate(s) along with a certificate issued by registered Chartered Accountant, clearly specifying the name of work, total payment received against the work and TDS amount for the work.**

- ii) Should have Average Annual Financial Turnover of **Rs. 13,75,491/-on construction work** during last three years ending 31st March of the previous financial year. The financial information shall be submitted in the given format- **Form-B**. Tenderers showing continuous losses during the last three years in the balance sheet shall be summarily rejected.

~~Minimum annual value of General Construction Work: The applicant should have achieved minimum annual value of general construction work (as certified by Chartered Accountant, and at least 50 (fifty) percent of which is from Engineering (Civil as relevant to the work being procured) construction work carried out in any of the year during last (05) years, ending 31st March of previous year, calculated by applying a multiplier of 2 for the project costing upto Rs. 1500 Cr. To the projected annual construction expenditure (Estimated Cost) on the subject contract.~~

~~The minimum annual value of general construction work is to be calculated as twice the estimated cost put to tender (Ex. GST) for the works having completion time less than one (01) year and costing more than Rs. 10 Crores (Ex. GST)~~

- iii) The Tenderers should have a minimum net worth of **Rs. 5,82,835/-** issued by certified Chartered Accountants. The certificate should be submitted in the given format- **Form-C**.
~~*For Start ups bidders and Sub-contractors, for repair works estimated cost of upto Rs. 30 lakhs, the requirements regarding General Construction Experience, Particular construction Experience and Available Bid Capacity may not be insisted upon provided the bidders fulfil other criteria regarding Financial/ Personnel/Equipment capabilities. However, to avoid overstretching of their resources, no such contractors may be allowed to hold more than 2(Two) contracts under relaxed credentials, at any given time.~~

Envelope –II :- The Financial e-Bid through CPP Portal.

All rates shall be quoted in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the tenderers. Tenderers are required to download the BOQ file, open it and complete the blue colored (unprotected) cells with their respective financial quotes and other details (such as name of the tenderer). No other cells should be changed. Once the details have been completed, the tenderer should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the tenderer, the bid will be rejected.

3. Refund of EMD

EMD deposited by all the bidders except the confirmed lowest bidder shall be returned within one week from the date of opening of the financial bid. EMD of the successful bidder shall be returned on receipt of Security Deposit equivalent to EMD amount/ performance bank guarantee.

4. Bid Submission:-

The tenderer shall submit their application only at CPP Portal: <https://etenders.gov.in/eprocure/app>. Tenderer/Contractor are advised to follow the instructions provided in the tender document for online submission of bids. Tenderers are required to upload the digitally signed file of scanned documents as per Para 2. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

Uploading of application in location other than specified above shall not be considered.

Hard copy of application shall not be entertained.

5. Not more than one tender shall be submitted by one tenderer or tenderers having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another [i.e, when one or more partner(s)/director(s) are common] be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.
6. Tenderer who has downloaded the tender from Central Public Procurement Portal (CPPP) website <http://etenders.gov.in/e-procure/app>, shall not tamper/modify the tender form including downloaded price bid template in any manner. In case if the same is found to be tampered/modified in any manner, tender will be completely rejected and

EMD would be forfeited and tenderer is liable to be banned from doing business with AAI.

7. Bid Opening Process is as below: -

Envelope- I (Technical bid and pre-qualification):

Envelope-I containing documents as per Para 2 (A), and (B) (uploaded by the tenderers) shall be opened on date & time mentioned in CRITICAL DATE SHEET.

If any clarification is needed from the tenderer about the deficiency in his uploaded documents in Envelope - I, he will be asked to provide it through CPP portal, if required. The tenderer shall upload the requisite clarification/documents within time specified by AAI, failing which it shall be presumed that bidder does not have anything to submit and bid shall be evaluated accordingly.

The intimation regarding acceptance/rejection of their bids will be intimated to the tenderers through CPP portal.

Envelope- II (Financial Bid):

Envelope-II containing financial bid of the tenderers found to be meeting the technical criteria and qualifying requirements shall be opened on date & time mentioned in CRITICAL DATE SHEET. (In case the date and time for opening of Envelope-II (Financial bid) is required to be changed, the same shall be intimated through CPP Portal).

8. AAI reserves the right to accept or reject any or all applications without assigning any reasons. AAI also reserves the right to call off tender process at any stage without assigning any reason.
9. AAI reserves the right to disallow the working agencies whose performance at ongoing project(s) is below par and usually poor and has been issued letter of restrain/Temporary or Permanent debarment/blacklisting by any department of AAI. **AAI reserves the right to verify the credential submitted by the tenderer at any stage (before or after the award the work). If at any stage, any information/documents submitted by the applicant is found to be incorrect/false or have some discrepancy which disqualifies the tenderer then AAI shall take the following action:**
 - a) **Forfeit the entire amount of EMD submitted by the tenderer.**
 - b) **The tenderer shall be liable for debarment for a period upto two years from tendering in AAI, including termination of the contract apart from any other appropriate contractual/legal action.**
10. Consortium/JV companies shall not be permitted.
11. Purchase preference to Central Public Sector Undertaking shall be applicable as per the directive of Govt. of India prevalent on the date of acceptance.
12. Concessions to Indian Micro & Small Enterprises (MSEs) units registered with DIC/NSIC/KVIC/KVIB/Directorate of Handicraft and Handloom etc. exemption are not applicable to this work being a construction work.
13. Tenderers have to submit Unique Document Identification Number (UDIN) generated documents like financial information (Turnover with loss/ profit), Net worth Certificate etc. as per NIT condition duly certified by CA and having UDIN. The document submitted by bidder without UDIN shall not be entertained.

14. Department of Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India, issued Public Procurement (Preference to Make in India), Order 2017 vide OM No. P-45021/2/2017-PP(BE-II) dated 16.09.2020 is applicable.
15. Requirement of registration by the Bidder from a country sharing land border with India based on order No. F No. 6/18/2019-PPD dated 23/07/2020 of Government of India, Ministry of Finance, Department of Expenditure (Public procurement Division) with up-to-date amendments, regarding restriction under Rule 144(xi) of the General Financial Rules (GFR) 2017 shall be applicable. Bidder shall submit scanned copy of 'Undertaking' on Company's letter head in this regard. (Annexure-LBS)

Senior Manager (Engg.-Civil)
Airports Authority of India,
Pakyong Airport

General Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are generally meant to assist the bidders in registering on the CPP Portal, preparing their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <http://etenders.gov.in/eprocure/app>

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <http://etenders.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible for ensuring that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. There is no limit on the size of the file uploaded at the server end. However, the upload is decided on the Memory available at the Client System as well as the Network bandwidth available at the client side at that point of time. In order to reduce the file size, bidders are suggested to scan the documents in 75-100 DPI so that the clarity is maintained and also the size of file also gets reduced. This will help in quick uploading even at very low bandwidth speeds.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "online" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 5) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

Any bid related issue/ query pertaining to technical support or otherwise on CPP portal ([URL:-https://etender.gov.in/eprocure/app](https://etender.gov.in/eprocure/app)) for submission of tender documents should be addressed to AAI Help Desk Support (details also mentioned in the web-NIT) as below:

- (i) For any technical related queries please call the helpdesk. The 24 X 7 Help Desk details are as below: -

Tel: 0120-4711508, 0120-4001002, 0120-4001005, 0120-6277787

Email: support-eproc@nic.in

International bidders are requested to prefix 91 as country code.

Tenderers are requested to mention the URL of the portal and Tender ID in the subject while emailing any issue along with the contact details.

Before submitting queries, bidders are requested to follow the instruction given in “**Guidelines to Bidders**” and get their computer system configured according to there commended settings as specified in the portal at “**System Settings for CPPP**”.

- (ii) For any further technical assistance with regard to functioning of CPP portal the Tenderer may contact to the following AAI help desk no. on all working days only between :-

Sl. No.	Support Persons	Escalation Matrix	E-mail Address	Contract Numbers	Timings*
1	Technical Help Desk Team	Instant Support	eprochelp@aai.aero	011-24632950 Ext. 3512	0800-2000 Hrs.(MON-SAT)

2	JE(IT)	After 4 Hrs. of Issue	etendersupport@aai.aero or vaibhav_g@aai.aero	011-24632950 Ext. 3523	0930-1800 Hrs. (MON-FRI)
3	Sr. Manager (IT)	After 12 Hrs.	shripatim@aai.aero	011-24632950 Ext. 3509	0930-1800 Hrs. (MON-FRI)
4	Jt. GM(IT)	After 12 Hrs.	Sunil.km@aai.aero	011-24632950 Ext. 3506	0930-1800 Hrs. (MON-FRI)
5	General Manager (IT)	After 03 Days.	gmit@aai.aero	011-24657900	0930-1800 Hrs. (MON-FRI)

* The help desk services shall remain closed on all Govt. Gazetted Holidays.

In case of technical support regarding e-tender portal, if the AAI Help Desk is non responsive the Bid Manager can be contacted as below on all working days from 0930 hrs. to 1800 hrs.

Name : Abhilash Thakur

Telephone No. : -

Extension No. :

Mobile No. : +91-9832849418

E-mail ID : abhilash_t@aai.aero

Fax No. :

All bid procedure related queries be referred to HELP DESK as above and then to Bid Manager only.

Please note that under no circumstances bid procedure related queries shall be referred to the Independent External Monitors (IEMs).

Standard Operating Procedure
for
Online payment, refund and settlement of EMD and Tender Fee through CPP Portal

e-Tendering brings in economy, efficiency and transparency in the procurement of goods, works and services. CVC are inclined to force implementation of e-Tendering in all Govt. departments & PSUs. Online payment gateway for payment, refund and settlement of EMD and Tender Fee is part of the implementation of e-Tendering system i.e. CPPP <https://etenders.gov.in> .

Stakeholders:

1. **Tender Floating Department:** Airports Authority of India (AAI)
2. **The Technical Service Providers (TSP)** - NIC to facilitate CPP Portal with entire back end process and providing technical support to the Government Dept.
3. **Bank** - AAI has authorized State Bank of India as nodal bank provides payment gateway services and receives Tender fees and Earnest Money Deposits (EMDs) from various bidders participating in e- Tendering/ e-procurement process, holds the amount in Current/Savings Bank account till the time of finalization of tendering process. Bank will settle the Tender Fee of all bidders, Bank will refund EMD to unsuccessful bidders and the EMD of L 1 bidder will remain in the pooling account and after AOC completion on the portal, the L 1 bidders EMD amount will be refunded to their source account. This will be happened as per instruction received from TIA through online portal. Customized MIS will be provided to the Tender Floating Department i.e. AAI.
4. **The Bidders** - The bidders are organizations/corporate/individuals who apply for the tender floated by the tender floating department and participate in the tendering process.
Bidders are directly involved in making the use of this e-System for making payments and getting refunds into their accounts.

Eligibility (Prerequisite for e-Tendering)

1. Tender Inviting Authorities (TIA) & the bidders should enroll on CPP Portal <https://etenders.gov.in> to carry out the procurement activities.
2. Portal login will be through two factor authentication i.e. User id & password followed by the login through DSC.
 - TIA must have Digital Signature Certificate (DSC) with Signing and Encipherment feature
 - Bidders must have DSC with Signing feature

Bank Account Details

- a. Common Pooling A/C for EMD and Tender Fee Collection
- b. Tender Fee Settlement A/c for Settlement of Non-refundable Tender Fee amounts
- c. Forfeited EMD Settlement A/c for Settlement of forfeited EMD amounts

Payment gateway for End to End Procedures:

1. **Collection Process:**
 - a. **Online collection of EMD and Tender Fee:** As per current provision in the portal, TIA will allow the option of **Online Mode** for collection of EMD and Tender Fee while publishing

tender, so that the bidders can deposit these fees through **Net Banking** (SBI and Other Banks) and **NEFT/RTGS**.

- b. **Collection of EMD through Bank Guarantee(BG):** During the tender creation TIA will allow the option of “**EMD through BG or EMD Exemption**” so that bidders will be able to upload the copy of BG or Exemption certificate as per tender terms and condition.

***Note:** Keeping in the view of running tender status, the portal currently has both online and offline payment options for next few days, after which the offline mode will be disabled.*

2. During the collection process the amount will be debited from the bidder account and credited to the collection pooling account of the AAI.
3. Till the tender opening all the collected amount will be residing in the collection pooling account of AAI.
4. **Refund and Settlement process:**
 - a. **Step-I:** After opening the tender, bid submitted successfully along with the online payment, the tender fee settled to 'Tender Fee Settlement Account' and EMD amount will remain in 'Pooling Account'.
 - b. **Step-II: On Technical Evaluation:** After submission of technical evaluation report on the CPP portal, the 'EMD of Technically Qualified bidders will remain in the pooling account' and EMD amount of rejected bidders will be refunded to their source account.
 - c. **Step-III: On Financial Evaluation:** After submission of financial evaluation report on the CPP portal, the 'EMD of L1 bidder will remain in the pooling account' and EMD amount of rejected bidders will be refunded to their source account.
 - d. **Step-IV: EMD Refund of L1:** After AOC completion on the portal, the L1 bidders EMD amount will be refunded to their source account and for this Bid managers are advised to complete the AOC process:
 - Only after receiving the PBG and its confirmation from the bank.
 - or**
 - Adjustment of Security Deposit (SD) as per NIT Condition.
5. **In the case of "Cancellation of tender" before opening and "Re-Tender":**
 - All the submitted amount will be refunded to the bidders.
6. **In the case of "Cancellation of tender" after opening and "Re-Tender":**
 - The tender fee has already settled to the AAI's tender fee settlement account at the EoD of tender opening.
 - Now only EMD residing in the collection pooling account, the EMD will be refunded to the bidders.
7. **In case of 'Withdraw of bid' by the vendor:**
 - Procurement system allows the bidder to withdraw till the bid submission closing date, assume that the bidder has paid the amount and withdrawn the bid, eProcurement system will initiate the refund of EMD on the day of tender opening.

8. **In case of Revocation Corrigendum:**

- If TIA publishes revocation corrigendum to accept the rejected bidder than TIA must ask EMD again via offline mode before publishing the revocation corrigendum because EMD amount has already been refunded or refund initiated to the rejected bidders A/c.

9. **Procedure for Forfeiture of EMD through CPP Portal:**

Forfeiture activity can be performed at the time of rejection of the bidder.

Step I: Rejected the bidder during the Technical or Financial Evaluation process.

Step II: On the same day, use the menu “Forfeiture Menu” to Forfeit the EMD.

Step III: Select the tender and then the bidder to forfeit the EMD

Step IV: At the end of the day System will settle the Forfeited EMD to “Forfeited EMD Settlement A/c”

Note: *Forfeiture of EMD will have to be claimed on same day of rejection otherwise it will not be available in the system because at the end of the day CPPP will initiate refund to the rejected bidders.*

10. **Following procedures are attached on subsequent pages:**

- a. Procedure to allow the online **Payment Option** in CPP Portal by TIA
- b. Procedure for checking the **Payment Status** by TIA
- c. Procedure for **Online Collection** of EMD and Tender Fee from Bidders

Procedure to allow the Online Payment Option in CPP Portal by TIA

1. TIA/Bid Manager will login to the portal <https://etenders.gov.in/> with valid User ID (i.e. User ID mapped with Digital Signature Certificate) and follow the process of tender creation.
2. After completion of Basic and Cover Details go to next stage for Fee Details and select the option as per below screen:

Government eProcurement System

Welcome Last login : 05-Aug-2020 11:56 AM Server Time 05-Aug-2020 13:58:29 Home Logout

TENDER MANAGEMENT

Tender List AAI/Test Fee Details

Work/Item Details Fee Details Critical Dates Bid Openers Work/Item Documents

Tender Reference Number : AAI/Test

Fee Payment Mode* ☐ Offline ☒ Online ☐ Not Applicable

Tender Fee Details

Tender Fee in ₹

Exemption Allowed ☒ Yes ☐ No

Earnest Money Deposit (EMD) Details

EMD Fee ☒ Fixed ☐ Percentage

EMD Amount in ₹ *

EMD ECV %

EMD through BQ/ST or EMD Exemption Allowed ☒ Yes ☐ No

EMD Fee Payable To *

EMD Fee Payable At *

Online Banks *

☒ SBI Bank

Note


Government eProcurement System



Welcome [User Name]
Last login : 05-Aug-2020 11:56 AM

Server Time
05-Aug-2020 13:57:39

Home Logout

Government eProcurement System

TENDER MANAGEMENT

Master Management

- Org Hierarchy Master
- View Internal Documents

User Management

- Debar User
- My Organisation Hierarchy
- My Accounts

Tender Management

- Create Tender / Tender List
- Publish Tender
- Published Tenders
- Seek Clarifications
- Pre-bid Meeting
- Downloaded Tenders
- Tender Status
- Archived Tenders
- Archived Clarification
- Stage 2 Create Tender / Tender List
- NDA Documents
- Stage 2 Publish Tender
- NDA Documents History
- Stage 2 Published Tender

Corrigendum

- Create Corrigendum
- Publish Corrigendum

Tender List > AAI/Test > Fee Details

Work/Item Details **Fee Details** Critical Dates Bid Openers Work/Item Documents

Tender Reference Number : AAI/Test

Fee Payment Mode* ☐ Offline ☒ Online ☐ Not Applicable

Tender Fee Details

Tender Fee in ₹

Exemption Allowed ☒ Yes ☐ No

Earnest Money Deposit (EMD) Details

EMD Fee ☒ Fixed ☐ Percentage

EMD Amount in ₹ *

EMD ECV %

EMD through BG/ST or EMD Exemption Allowed ☒ Yes ☐ No

EMD Fee Payable To *

EMD Fee Payable At *

Online Banks *

- ☒ SBI Bank

 **Note**

Choose **Yes** option for EMD payment through **Bank Guarantee** or for **EMD Exemption**

Procedure for checking the Payment Status by TIA

1. Payment confirmation can be find out at the time of Tender Opening process.
2. TIA/Bid Manager will login to the portal <https://etenders.gov.in/> with valid User ID (i.e. User ID mapped with Digital Signature Certificate) and follow the process of tender opening.
3. After opening of tender, click on **first cover** (i.e. Fee Cover) and select Bid Opening or Quick Bid Opening option against each Bidder.
4. Payment status will be checked/verified for Individual Bidders.
5. Click on View Paid Information link and get the bidder details along with Payment detail.
6. If Status is seen as “**Success**” it means that bidder has successfully paid for Tender Fee/EMD Successfully. Screen shot is attached herewith for the reference.

	Government eProcurement System	Government eProcurement System Bid Submission Confirmation
		Date : 30-Jul-2020 06:20 PM  Print

Bid Information			
Bid ID :	181504		
Bidder Name :	[REDACTED]		
Organisation Chain :	Airports Authority of India Western Region - AAI AHMEDABAD - AAI ENGG ELECT-VAAH - AAI		
Tender Ref No :	AAI_AH_COMML_112_PPE OUTLET		
Tender ID :	2020_AAI_52772_1		
Tender Title :	PPE Equipment Outlet		
Bid Submitted Date & Time :	19-Jul-2020 05:36 PM		

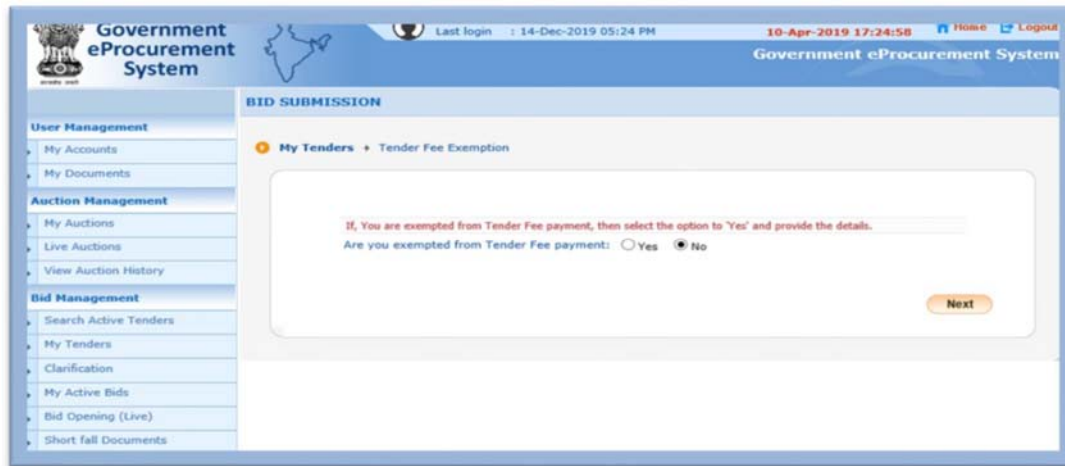
Corporate Tenderer Details			
Login ID:	satyatraders94@gmail.com	User Type:	Corporate/Bidder
Company Name:	SATYA TRADERS	Registration Number:	AS03E0003466
Registered Address :	Ground Floor, Intuc Complex, K.C. Sen Road, Opp. Tribeni Lodge, Paltan Bazar, Rehabari, Guwahati	Name of Partners / Directors :	SATYANARAYAN ROY
City :	GUWAHATI	State :	Assam
Postal Code :	781008	PAN Number:	ARXPR8246F
Company's Establishment Year (YYYY):	2009	Company's Nature of Business:	TRADING AND SERVICES
Company's Legal Status:	Others	Company Category :	Micro Unit as per MSME
Title :	Mr	Contact Name:	SATYANARAYAN ROY
DOB (Date Of Birth):	12-Apr-1985	Designation :	PROPRIETOR
Correspondence Email:	satyatraders94@gmail.com	Phone :	91 - 0 - 9864036333
Mobile:	91-9864036333		

Bank Response On Payment Details	
eProcurement Ref. Number :	56707181504
PRN Number :	56707181504
Bank / UTR Number :	CPAAFAKS08
Bank Name :	SBI Bank
Status :	Success
Tender Fee in ₹ :	2,000
EMD Fee in ₹ :	50,000
Total Fee in ₹ :	52,000

EMD and Tender Fee both paid successfully

Procedure for Online Collection of EMD and Tender Fee from Bidders

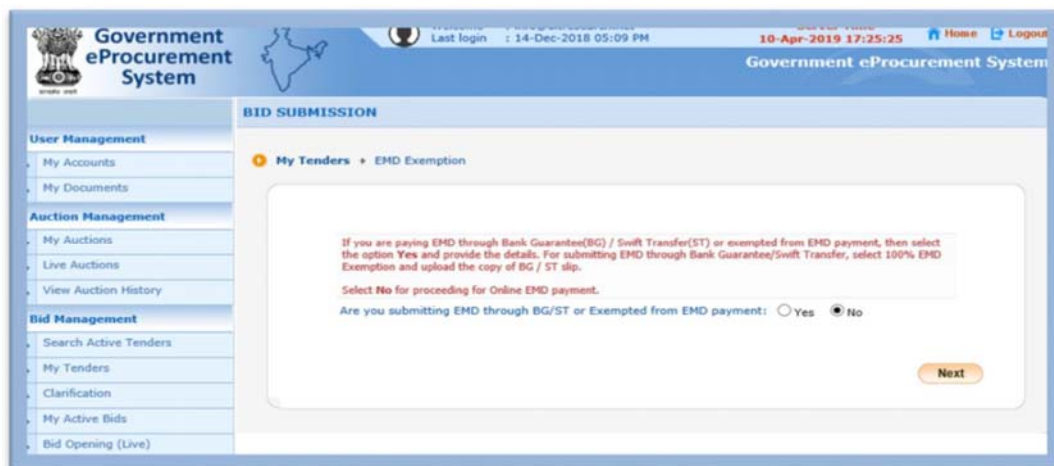
1. Bidder will login to the portal <https://etenders.gov.in/> with valid User ID (i.e. User ID mapped with Digital Signature Certificate) and follow the process of participation to the tender.
2. After Login search the tender in “Search Active Tender” tab with different criteria after that click on “set as favorite” to move on “My Tender”. Then click on “My tender” and view the tender details and click on proceed for Bid Submission.
3. For submission of online Tender Fee and EMD, click on Button as “Pay Online”
4. **In case of Tender Fee:** If the Bidder is exempted from the tender fee payment, then select the option to “Yes” other wise “NO” as per below screenshot:



5. **In case of EMD:** If Bidder is paying EMD through any of below options, Select the option “Yes” (as per below screenshot) and provide the details and upload copy as a proof.
 - Bank Guarantee (BG)/Swift Transfer (ST)
 - Exempted from EMD Payment,

Note: For submitting “EMD through BG/ST” or “Exemption from EMD payment” bidder must select “Yes” otherwise bidders will not have the option to pay EMD through Bank Guarantee. Once proceeded it is not possible to revert the option.

6. Select option “NO” (as per below screenshot) for proceeding for Online EMD payment.



After selecting the option, click on “Next” Button as per above screenshot. Further process to be followed as per subsequent screen.

STEPS FOR MAKING TENDER PAYMENTS IN ETENDERS SYSTEM VIA SBI BANK GATEWAY

(SBI AND NON SBI ACCOUNT HOLDERS)

Home Page.

Login as a bidder into etenders.gov.in to proceed for payment.



Step 1) Click “Pay Online” when you reach below page while Online Bid Submission.

The screenshot displays the 'BID MANAGEMENT' section of a web application. On the left is a sidebar menu with categories like 'User Management', 'Auction Management', and 'Bid Management'. The main content area shows details for a specific tender (2018_LSGD_204397_1) and includes two tables: 'Bid Process List' and 'Bid Payment Details'. At the bottom of the main area are two buttons: 'Pay Online' and 'Encrypt&Upload'.

BID MANAGEMENT

My Tenders • 2018_LSGD_204397_1 • Transaction Message

Organization Chain : NIC|NIC Contracts
Tender Reference Number : PW3/23401/18
Tender ID : 2018_LSGD_204397_1
Tender Title : PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING

Bid Process List

S.No	Bid Process	Action
1	Profile	

Bid Payment Details

S.No	Fee Type	Actual Fee	Exempted Fee	Fee To Be Paid	Paid Fee
1	Tender Fee	2500.00 (INR)	0.00	2500.00 (INR)	0.00
2	Emd Fee	37500.00 (INR)	0.00	37500.00 (INR)	0.00

Pay Online Encrypt&Upload

Version:1.09.06 04-Feb-2018 (c) 2008 Tenders NIC, All rights reserved.

Step 2) Click “Confirm to Pay” to proceed with the payment gateway, as below.

Note: Please ensure that you have availed Tender Fee / EMD Exemption, if eligible. Further, there would not be any provision to change back, under any circumstances.

The screenshot displays the 'BID MANAGEMENT' section of a web portal. On the left is a sidebar menu with categories: User Management (My Accounts, My Documents), Auction Management (My Auctions, Live Auctions, View Auction History), and Bid Management (Search Active Tenders, My Tenders, Clarification, My Active Bids, Bid Opening (Live), Short fall Documents, Online Payment Status, My Bids History, Short Fall Documents History, Archived Clarification, Tender Status, My Withdrawn Bids). The main content area is titled 'Offline/OnLine Payment Confirmation'. It shows the following details:

- Organization Chain : NIC||NIC Contracts
- Tender Reference Number : PW3/23401/18
- Tender ID : 2018_LSGD_204397_1
- Tender Title : PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING

Below this is a table titled 'Bid Payment Details':

S.No	Fee Type	Actual Fee	Exempted Fee	Fee To Be Paid
1	Tender Fee	2128.00 (INR)	0.00	2128.00 (INR)
2	Emd Fee	23100.00 (INR)	0.00	23100.00 (INR)

A yellow 'Portal Alert' box contains the following text:

- Beyond this stage, you will not be able to edit Fee or Exemption details.
- Please confirm that the exemption and amount to be paid are correct.

Below the alert, it states: 'I hereby confirm that the above payment details are correct.' At the bottom right of the alert box are two buttons: 'Back' and 'Confirm to Pay'.

At the very bottom of the page, the footer reads: 'Version:1.09.06 04-Feb-2018 (c) 2008 Tenders NIC, All rights reserved.'

Step3) Verify that the Tender fee and EMD shown are correct, as per tender document. Then, select the payment option **SBI MOPS** and Submit, as below.

Note: In case of any mismatch in tender payments, with reference to tender documents, please contact TIA for clarifications.

BID MANAGEMENT

1 OnLine Payment Gateway

Organization Chain : NIC||NIC Contracts
Tender Reference Number : PW3/23401/18
Tender ID : 2018_LSGD_204397_1
Tender Title : PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING

Bid Payment Details			
Fee Type	Actual Fee	Exempted Fee	Fee To be Paid
Tender Fee	2,500	0	2,500
Emd Fee	37,500	0	37,500
Total Fee			40,000

Choose Payment Option

☒ SBI MOPS

Back Submit

Version:1.09.06 04-Feb-2018 (c) 2008 Tenders NIC, All rights reserved.

Step 4) Check and Follow the **Terms and Conditions**, and then **Submit**, as below.

BID MANAGEMENT

OnLine Payment Gateway

Payment Verification

Organization Chain : NIC||NIC Contracts
Tender Reference Number : PW3/23401/18
Tender ID : 2018_LSGD_204397_1
Tender Title : PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING

Pay Model : SBI MOPS

✓ **Terms And Conditions.**

- You are being redirected to the SBI MOPS site.
- You have to complete the transaction with in the session time which is approximately 15 minutes.
- Money once transferred towards tender fee shall not be refunded at any point of time. This is applicable even in case you have not completed the tender process.
- Once payment is successfully completed, you will be automatically redirected back to e-Procurement site.
- It is the responsibility of the Individual to ensure that the payment is successfully completed and eProcurement system is not responsible for any malfunctions in the Bank payment gateway.
- please take print screen for bank acknowledgement page.

[Back](#) [Submit](#)

Version:1.09.06 04-Feb-2018 (c) 2008 Tenders NIC, All rights reserved.

Step 5) Bidders may choose the type of transaction and proceed for payment.

SBI ONLINE

STATE BANK MULTI OPTION PAYMENT SYSTEM

Please Select Appropriate Card Type To Avoid Failures (C-Credit Card Options/D For Debit Card)

Hot Banking

SBI
Bank Charges: 11.8
[Click Here](#)

Other Banks
Bank Charges: 132.5
[Click Here](#)

Card Payments

Other Payments Modes

NEFT
NEFT/RTGS
Bank Charges: 133.0
[Click Here](#)

[Cancel](#)

© State Bank of India Site best viewed in I.E. 10 +, Mozilla 30 +, Google Chrome 30 +

Step 6) Once the Payment type is selected it navigates to the respective landing page.

a) SBI

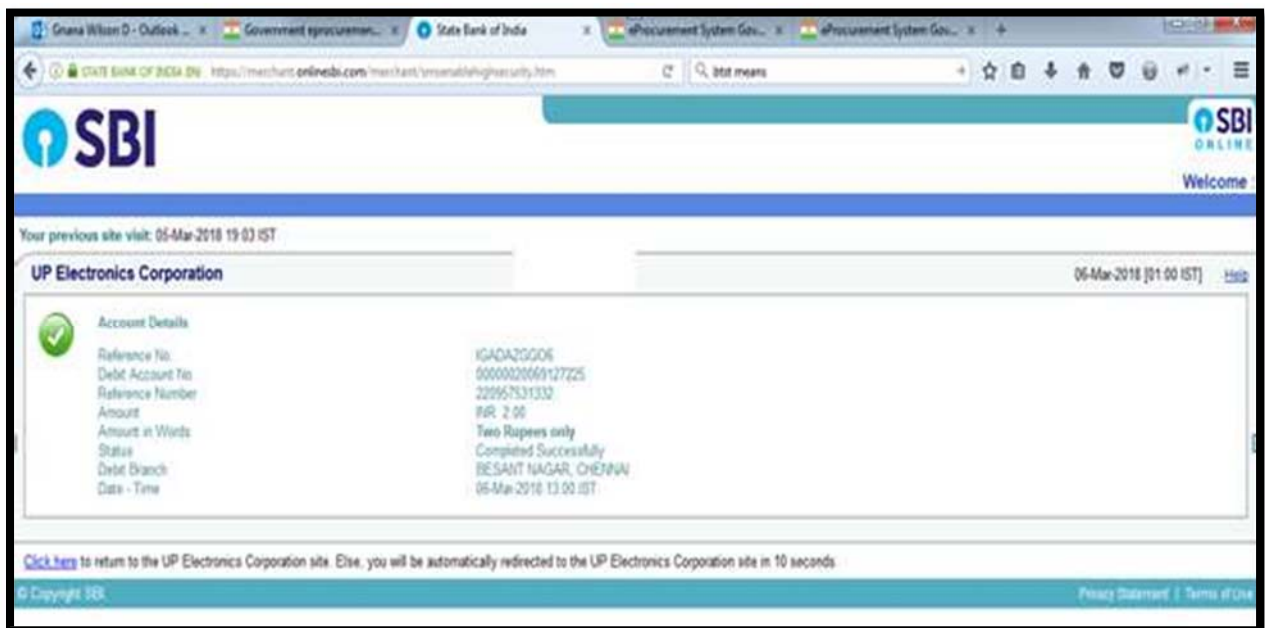
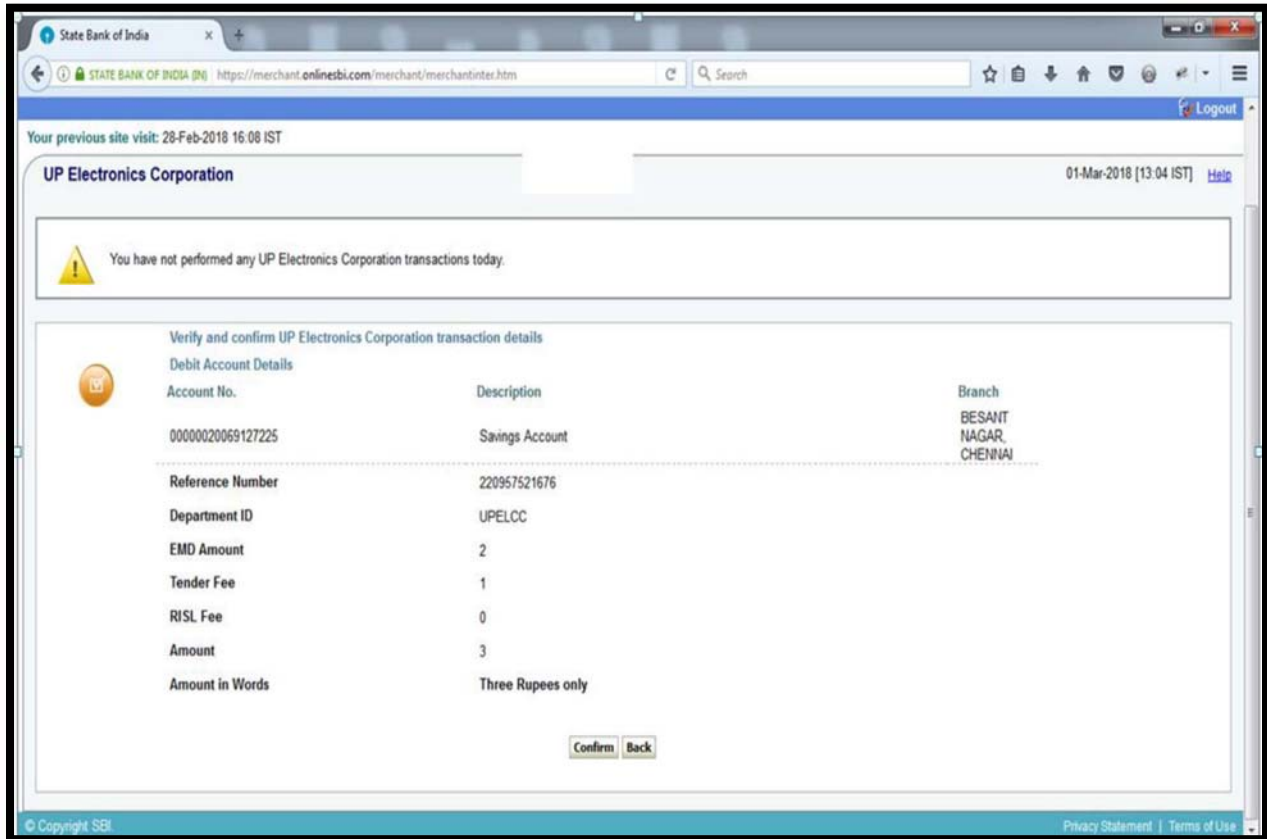
i. Bidders with SBI account may click **SBI** option to proceed to its Net Banking Page

The screenshot displays the SBI Online Banking login interface. At the top, the SBI logo is visible on the left, and 'SBI ONLINE' is on the right. The main heading is 'Login to Online SBI'. Below this, there's a note: '(CARE: Username and password are case sensitive.)'. A section titled 'Please select the customer Segment' has two options: 'PERSONAL BANKING' (selected) and 'CORPORATE BANKING'. The login form includes fields for 'Username*' and 'Password*', both with asterisks indicating they are mandatory. There are links for 'New User? Register here', 'Forgot Login Password', and 'Forgot Username'. A 'Login' button and a 'Reset' button are at the bottom of the form. To the right of the form is a 'Welcome to Internet Banking' message and a virtual keyboard. Below the login form, a security notice states: 'For better security use the Online Virtual Keyboard to login.' and links to 'FAQ' and 'About Phishing'. A list of security tips is provided: 'Mandatory fields are marked with an asterisk (*)', 'Do not provide your username and password anywhere other than in this page', 'Your username and password are highly confidential. Never part with them. SBI will never ask for this information.', and 'Please do not call Contact Centre or try to raise CMS complaint on the day of transaction.' At the bottom, there's a 'Privacy Statement | Disclosure | Terms of Service(Terms & Conditions)' link, a 'VeriSign' logo, and the text '© State Bank of India'. A footer note says 'Site best viewed at 1024 x 768 resolution in IE 7 or above, Mozilla 3.5 or above, Google Chrome 3 or above, Safari 5.0 +'. The browser's address bar shows the URL: https://merchant.onlinesbi.com/merchant/merchantpreloginbanking.htm.

ii. Bidders may enter SBI Net banking user ID and Password and Click on **Login** to proceed.

The screenshot displays the SBI Net banking login interface. At the top, the SBI logo and 'SBI ONLINE' text are visible. Below this, the 'Login to OnlineSBI' section contains a note: '(CARE: Username and password are case sensitive.)'. There are two radio buttons for 'PERSONAL BANKING' (selected) and 'CORPORATE BANKING'. The 'Username*' field is empty, and the 'Password*' field is masked with dots. To the right of the password field are links for 'New User? Register here', 'Forgot Login Password', and 'Forgot Username'. A 'Login' button and a 'Reset' button are at the bottom of the login section. On the right side, there is a 'Welcome to Internet Banking' message and a virtual keyboard with a 'CAPS LOCK' button and a 'CLEAR' button. Below the login section, there is a security notice: 'For better security use the Online Virtual Keyboard to login.' and links for 'FAQ' and 'About Phishing'. At the bottom, there are links for 'Privacy Statement', 'Disclosure', and 'Terms of Service(Terms & Conditions)'. A small orange bell icon is also present in the bottom right corner of the login section.

iii. Please ensure that your account has sufficient balance, before proceeding further. After checking the same, Click **Confirm** button as below, to transfer payment. After account debit, MOPS gateway will automatically re-direct to the eProcurement System, with the Success transaction.



iv. As in below, you will receive bank response immediately by verifying the payment status, whether **Success** or not. In case, payment was debited from account and further, **Payment Failure** is shown, immediately contact the eProcurement helpdesk, for resolution, before tender closing time.

Click **Next** to go to Bid Preparation details, as in screenshot.

The screenshot displays the 'BID MANAGEMENT' section of a web application. On the left is a navigation menu with categories: 'User Management' (My Accounts, My Documents), 'Auction Management' (My Auctions, Live Auctions, View Auction History), and 'Bid Management' (Search Active Tenders, My Tenders, Clarification, My Active Bids, Short fall Documents, Online Payment Status, My Bids History, Short Fall Documents History, Archived Clarification, Tender Status, My Withdrawn Bids). The main content area is titled 'BID MANAGEMENT' and contains a sub-header 'Bank Response On Payment Details'. A yellow success message box states: 'Your Online transaction has been completed successfully.' Below this, transaction details are listed: Organization Chain: NIC||NIC Contracts; Tender Reference Number: PW3/23401/18; Tender ID: 2018_LSGD_204397_1; Tender Title: PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING. A second box titled 'Bank Response On Payment Details' provides further information: eProcurement Ref. Number: 220957531332; PRN Number: 220957531332; Bank / UTR Number: IGADA2GG06; Bank Name: SBI Bank; Status: Success; Status Description: Completed successfully. It also lists fees: Tender Fee in ₹: 1; EMD Fee in ₹: 1; Total Fee in ₹: 2. A 'Next' button is located at the bottom right of the main content area.

BID MANAGEMENT	
User Management - My Accounts - My Documents	Bank Response On Payment Details
Auction Management - My Auctions - Live Auctions - View Auction History	✓ Your Online transaction has been completed successfully. Organization Chain : NIC NIC Contracts Tender Reference Number : PW3/23401/18 Tender ID : 2018_LSGD_204397_1 Tender Title : PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING
Bid Management - Search Active Tenders - My Tenders - Clarification - My Active Bids - Short fall Documents - Online Payment Status - My Bids History - Short Fall Documents History - Archived Clarification - Tender Status - My Withdrawn Bids	Bank Response On Payment Details eProcurement Ref. Number : 220957531332 PRN Number : 220957531332 Bank / UTR Number : IGADA2GG06 Bank Name : SBI Bank Status : Success Status Description : Completed successfully. Tender Fee in ₹ : 1 EMD Fee in ₹ : 1 Total Fee in ₹ : 2 Next

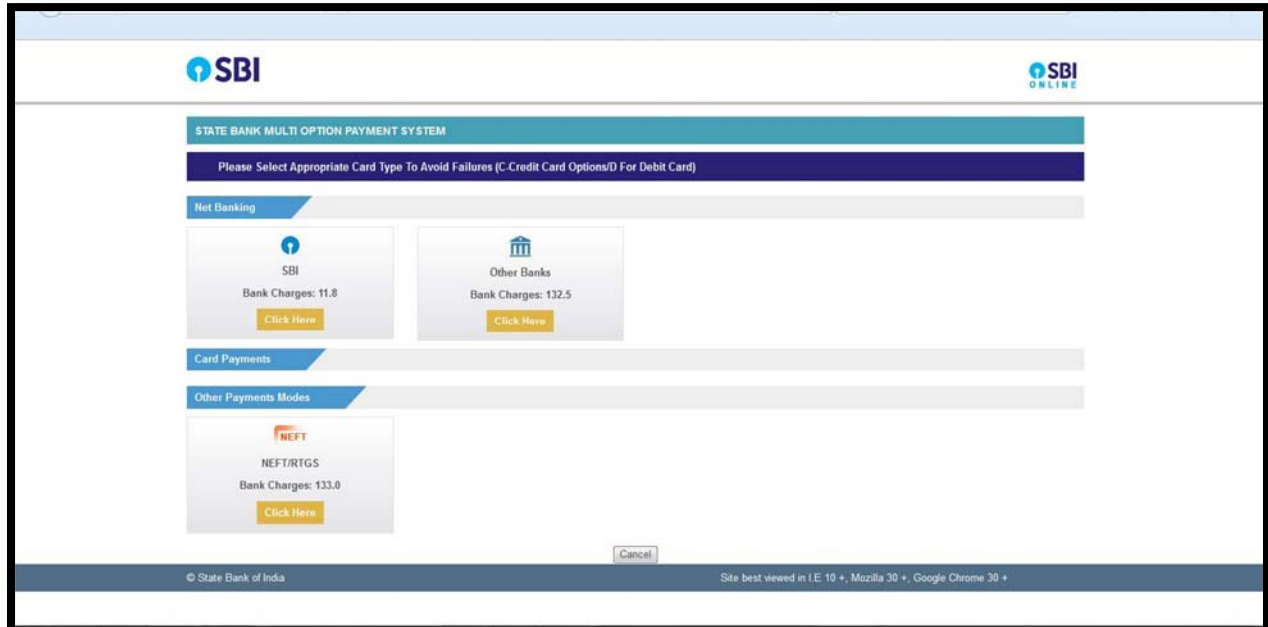
v. Please ensure that the **Pay Online** option is not shown after successful payment, as below, for confirmation. From here, you may proceed with **Encrypt and Upload** to upload tender documents, and further submission process.

The screenshot displays the 'BID MANAGEMENT' section of a web application. On the left is a sidebar menu with categories: User Management (My Accounts, My Documents), Auction Management (My Auctions, Live Auctions, View Auction History), and Bid Management (Search Active Tenders, My Tenders, Clarification, My Active Bids, Bid Opening (Live), Short fall Documents, Online Payment Status, My Bids History, Short Fall Documents History, Archived Clarification, Tender Status, My Withdrawn Bids). The main content area is titled 'My Tenders' and shows details for tender '2018_KSITM_203916_2'. It includes the Organization Chain (NIC|NIC Contracts), Tender Reference Number (PW3/23401/18), Tender ID (2018_LSGD_204397_1), and Tender Title (PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING). Below this is a 'Bid Process List' table with one row: S.No 1, Bid Process Profile, and an Action icon. Further down is a 'Bid Payment Details' table showing two rows: Tender Fee (Actual 1.00 INR, Exempted 0.00, Fee To Be Paid 0.00, Paid Fee 1.00 INR) and End Fee (Actual 2.00 INR, Exempted 0.00, Fee To Be Paid 0.00, Paid Fee 2.00 INR). An 'Encrypt&Upload' button is located at the bottom right of the main content area.

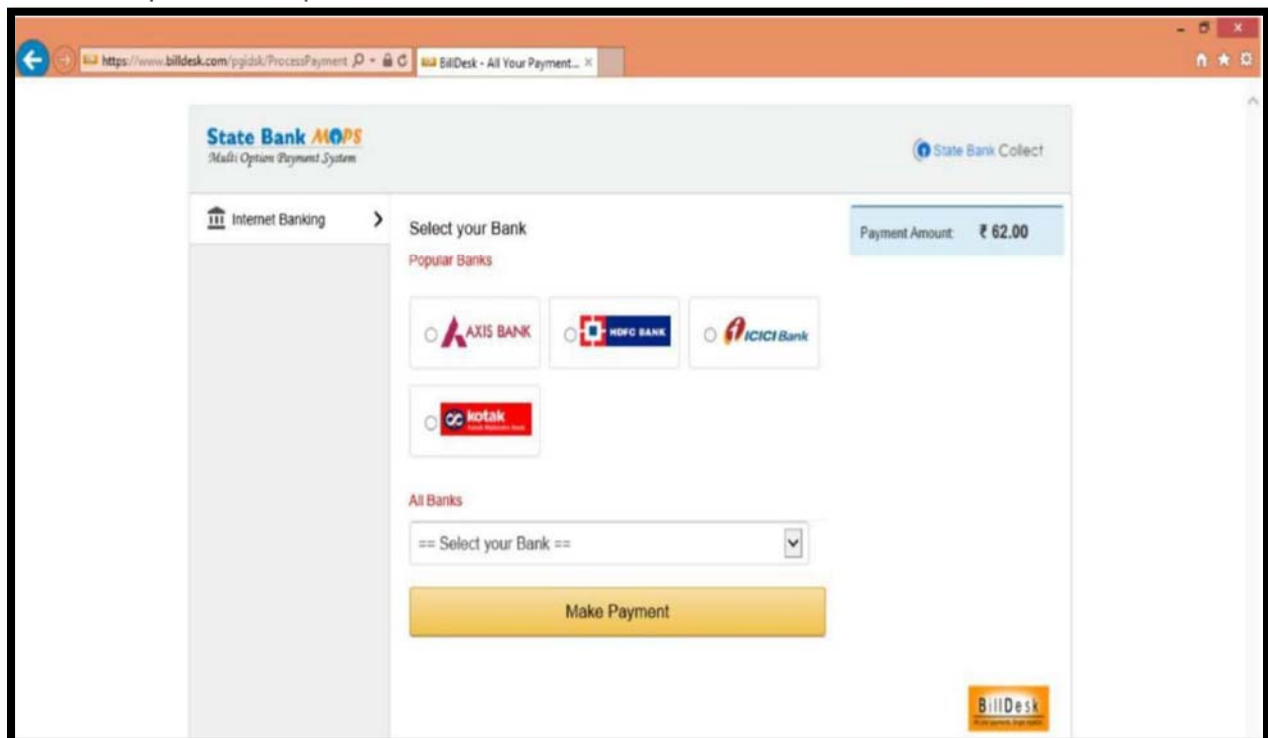
BID MANAGEMENT																																															
User Management * My Accounts * My Documents Auction Management * My Auctions * Live Auctions * View Auction History Bid Management * Search Active Tenders * My Tenders * Clarification * My Active Bids * Bid Opening (Live) * Short fall Documents * Online Payment Status * My Bids History * Short Fall Documents History * Archived Clarification * Tender Status * My Withdrawn Bids																																															
My Tenders * 2018_KSITM_203916_2 * Transaction Message Organization Chain : NIC NIC Contracts Tender Reference Number : PW3/23401/18 Tender ID : 2018_LSGD_204397_1 Tender Title : PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING <table border="1"> <thead> <tr> <th colspan="6">Bid Process List</th> </tr> <tr> <th>S.No</th> <th>Bid Process</th> <th colspan="4">Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Profile</td> <td colspan="4"></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="6">Bid Payment Details</th> </tr> <tr> <th>S.No</th> <th>Fee Type</th> <th>Actual Fee</th> <th>Exempted Fee</th> <th>Fee To Be Paid</th> <th>Paid Fee</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Tender Fee</td> <td>1.00 (INR)</td> <td>0.00</td> <td>0.00</td> <td>1.00 (INR)</td> </tr> <tr> <td>2</td> <td>End Fee</td> <td>2.00 (INR)</td> <td>0.00</td> <td>0.00</td> <td>2.00 (INR)</td> </tr> </tbody> </table> Encrypt&Upload						Bid Process List						S.No	Bid Process	Action				1	Profile					Bid Payment Details						S.No	Fee Type	Actual Fee	Exempted Fee	Fee To Be Paid	Paid Fee	1	Tender Fee	1.00 (INR)	0.00	0.00	1.00 (INR)	2	End Fee	2.00 (INR)	0.00	0.00	2.00 (INR)
Bid Process List																																															
S.No	Bid Process	Action																																													
1	Profile																																														
Bid Payment Details																																															
S.No	Fee Type	Actual Fee	Exempted Fee	Fee To Be Paid	Paid Fee																																										
1	Tender Fee	1.00 (INR)	0.00	0.00	1.00 (INR)																																										
2	End Fee	2.00 (INR)	0.00	0.00	2.00 (INR)																																										

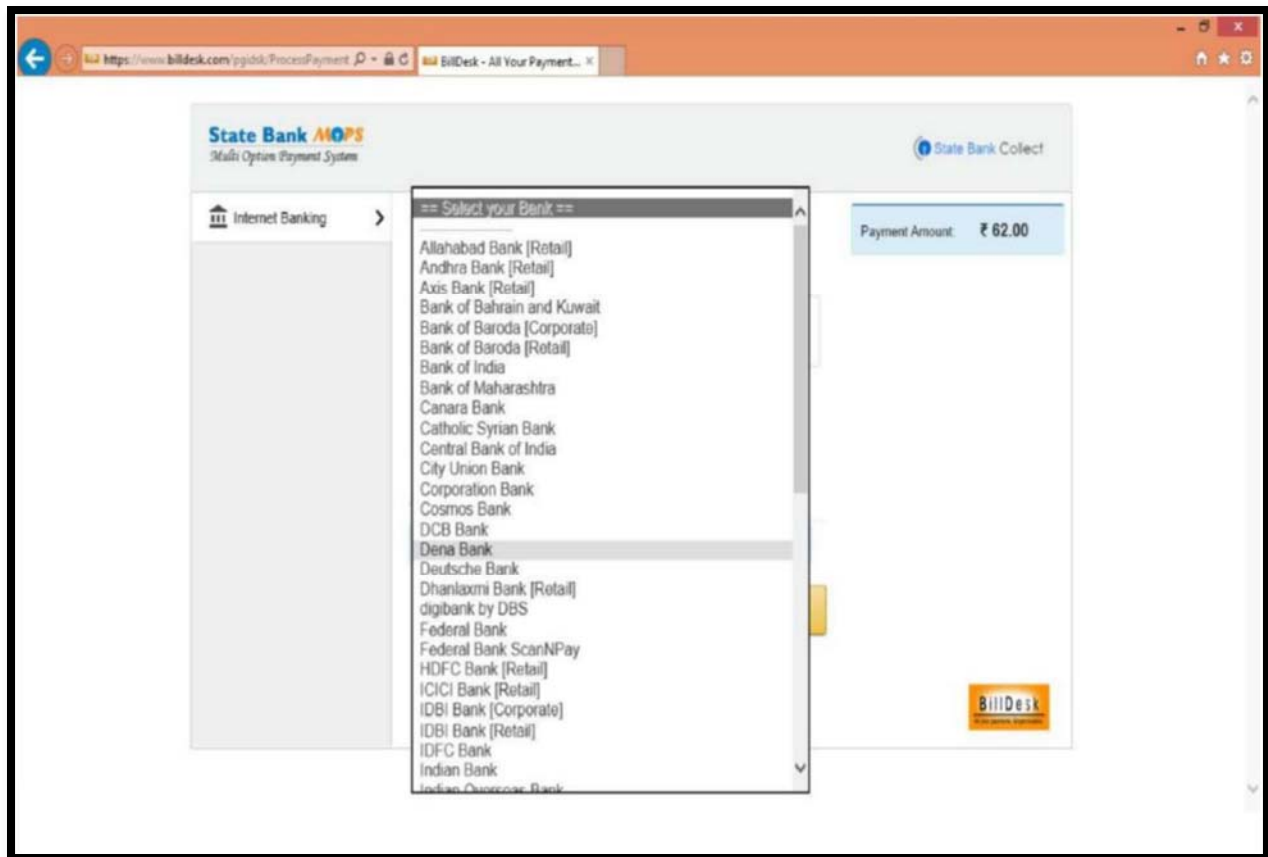
b) OTHER BANKS :

- i. Bidders with other bank account may click **Other Banks** option to proceed to SBI Net Banking Page

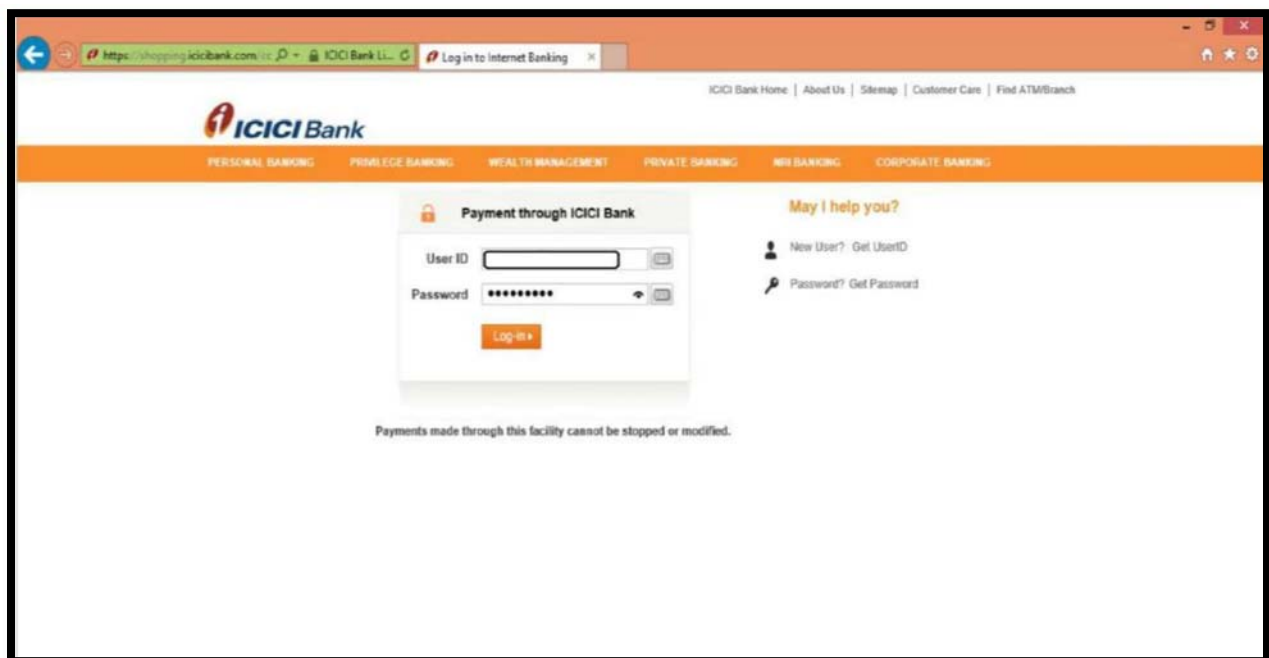
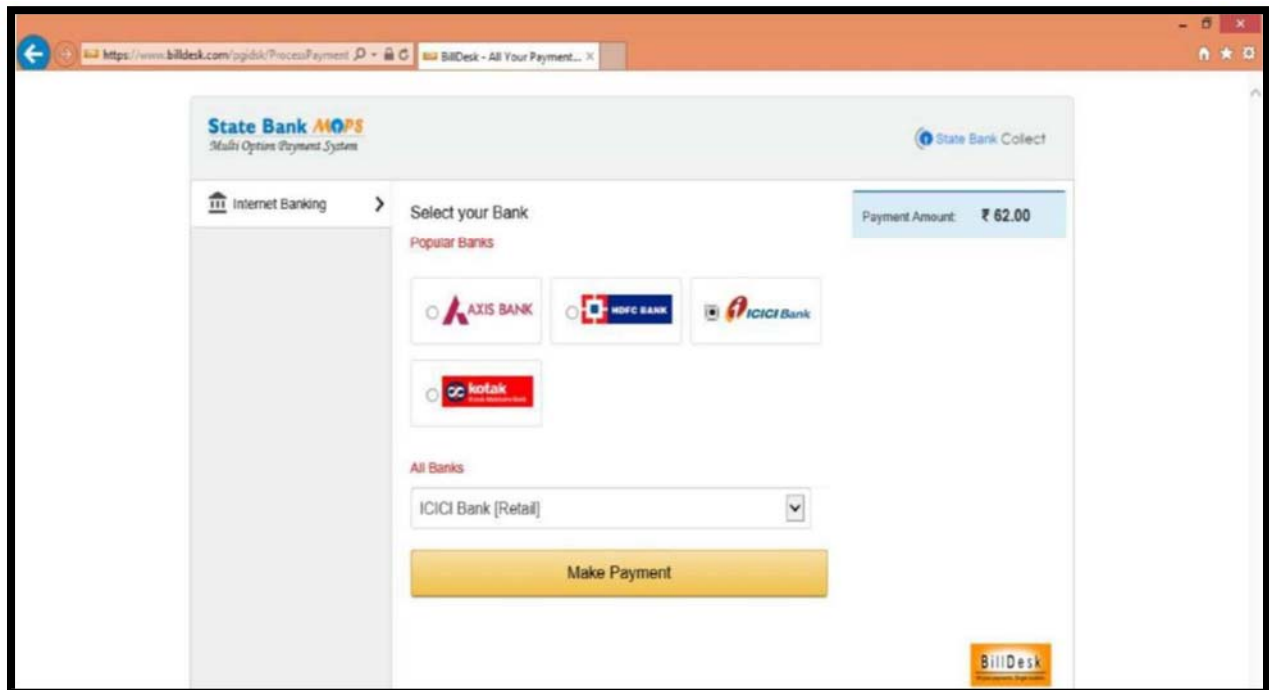


You may select the appropriate Bank from selection page. As an example, we are proceeding with ICICI Bank in the provided dropdown box of **All Banks**.





- ii. After selecting ICICI Retail Banking, Click **Make Payment** Button to proceed to its internet banking page. Further steps may depend on the Bank Procedure.



PRIVILEGE **ICICI Bank**

About Us | Customer Care | Find ATM/Branch

Make a Payment

You now have the option of paying from either your savings account or Pockets wallet.

Payment Details

Pay From:

Pay To: State Bank Of India - INB Dept (BI)

Amount (INR): 62.00

Remarks:

[Click here](#) to view terms & conditions.

Notes:

1. By clicking on the 'Pay' button, you are agreeing to the terms and conditions as given above.
2. After clicking the 'Pay' button, please wait for sometime while we pass on your payment details to the biller.
3. Please do not refresh or close the browser window.
4. Please check the status of the payment with the merchant after 7 days of transaction date. In case the merchant does not update the payment with in 7 days, please contact our [24-hour Customer Care](#) for further assistance.

Customer Service
Customer Care Numbers

Useful Links
Get User ID | Ways To Bank | Online Banking | Savings Account | PPF | Personal Finance Tools | Film Center | Gold Rate Today | Media Gallery | Credit

Visit Other ICICI Bank Sites
ICICI Group | ICICI Foundation | ICICI Lombard General Insurance | ICICI Securities | ICICI Prudential Life Insurance | ICICI Prudential AMC | ICICI Ventures | ICICI Direct | Disha Financial Consulting | ICICI Home Finance | IndusInd The Bank of Rajasthan | Carroz | Bahrain | Canada | Germany |

Our Initiatives
Safe Banking | Go Green

The screenshot shows the 'Confirm Details' page on the ICICI Bank website. The browser address bar shows 'https://shopping.icicibank.com'. The page header includes the 'PRIVILEGE' and 'ICICI Bank' logos, and links for 'About Us', 'Customer Care', and 'Find ATM/Branch'. The main heading is 'Confirm Details'. Below it, a 'Details' section contains the following information:

- Pay From:** [Empty input field]
- Pay To:** State Bank Of India - INB Dept.(BILL DESK BPC)
- Amount (INR):** 62.00
- Remarks:**

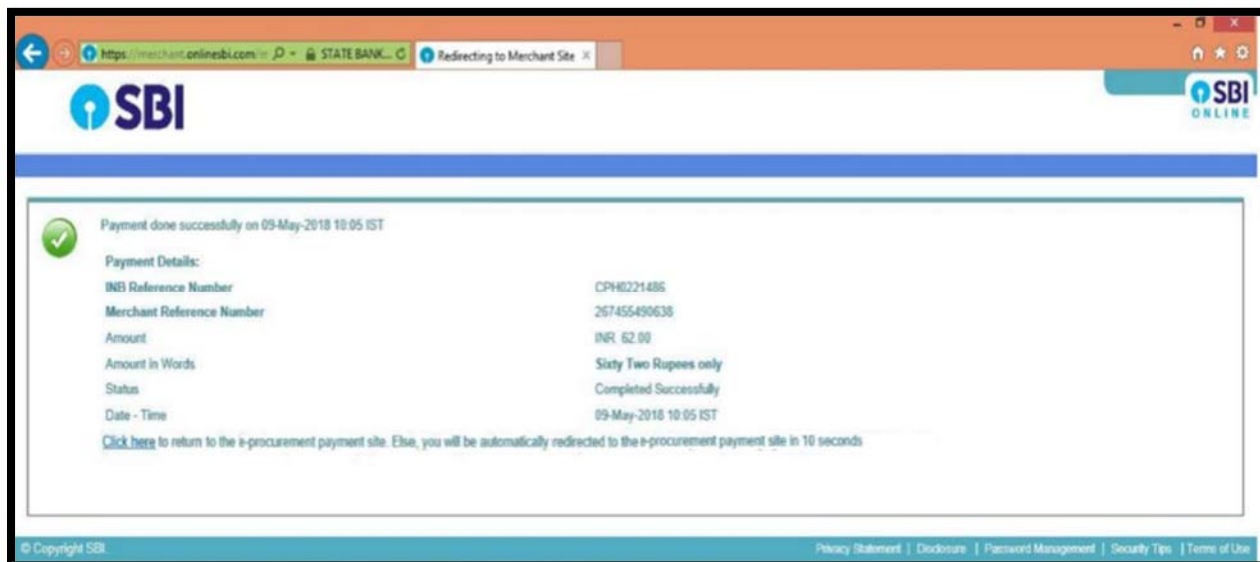
Below the details, a message states: 'Please enter these details to authorize the transaction'. This is followed by a 'Grid Card' section showing a sample debit card. Below the card, a message says: 'Please enter the following digits of your Debit Grid (This will be on the back of your card) for Account Number: 056601507890'. There are three input fields labeled 'B', 'H', and 'J'. At the bottom, there is a 'One Time Password' input field and a message: 'OTP has been generated and sent to your registered Mobile Number'.

The screenshot shows the 'Payment Successful' page on the ICICI Bank website. The browser address bar shows 'https://shopping.icicibank.com'. The page header includes the 'PRIVILEGE' and 'ICICI Bank' logos, and links for 'About Us', 'Customer Care', and 'Find ATM/Branch'. The main heading is 'Payment Successful'. Below it, the following information is displayed:

- Your payment of INR 62.00 has been made successfully to State Bank Of India - INB Dept.(BILL DESK BPC)
- Your Merchant Reference Number is NIC6289234178
- Your Transaction Reference Number is 1448560349

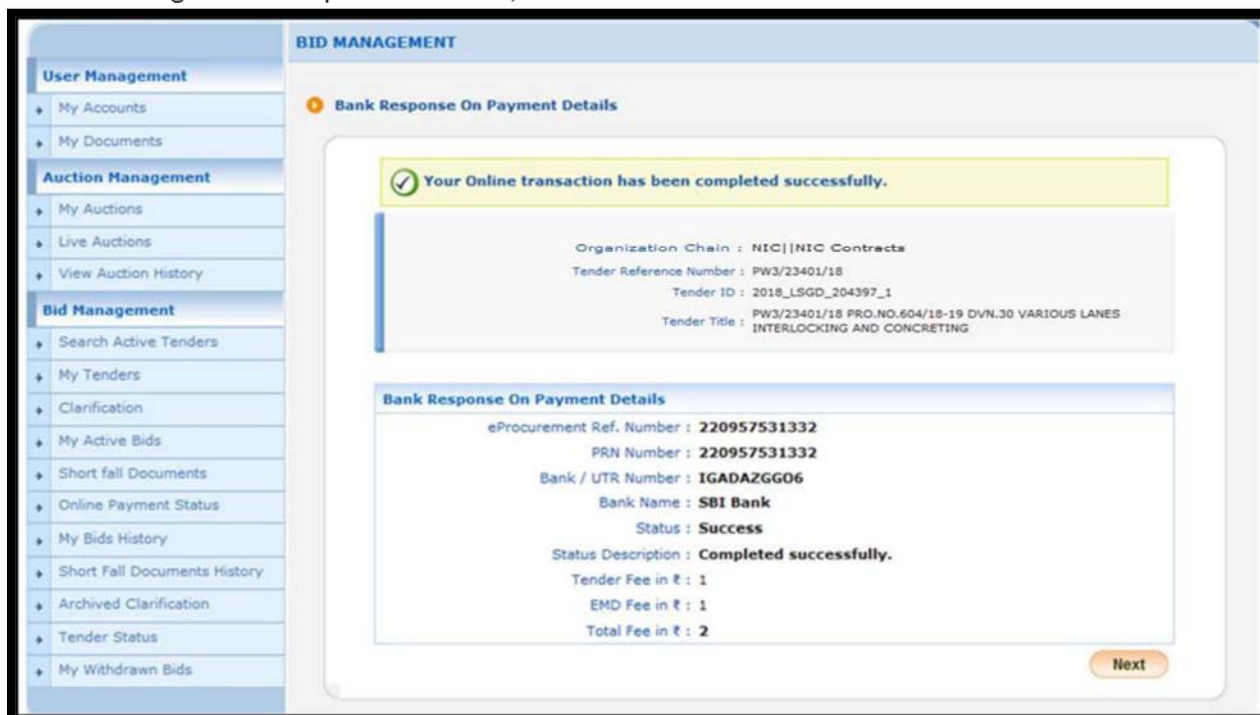
Below this, a message states: 'Kindly wait while we pass on your payment confirmation to State Bank Of India - INB Dept.(BILL DESK BPC)'. At the bottom, a 'Please Note' section says: 'For any transaction related queries, please contact the merchant and quote the Merchant Reference Number mentioned above'.

- iii. After, successful payment, system will direct you to payment confirmation page.



- iv. As in below, you will receive bank response immediately by verifying the payment status, whether Success or not. In case, payment was debited from account and further, **Payment Failure** is shown, immediately contact the eProcurement helpdesk, for resolution, before tender closing time.

Click **Next** to go to Bid Preparation details, as in screenshot.



v. Please ensure that the **Pay Online** option is not shown after successful payment, as below, for confirmation. From here, you may proceed with **Encrypt and Upload** to upload tender documents, and further submission process.

BID MANAGEMENT

My Tenders → 2018_KSITHM_203916_2 → Transaction Message

Organization Chain : NIC||NIC Contracts
Tender Reference Number : PW3/23401/18
Tender ID : 2018_LSGD_204397_1
Tender Title : PW3/23401/18 PRO.NO.604/18-19 DVN.30 VARIOUS LANES INTERLOCKING AND CONCRETING

Bid Process List

S.No	Bid Process	Action
1	Profile	

Bid Payment Details

S.No	Fee Type	Actual Fee	Exempted Fee	Fee To Be Paid	Paid Fee
1	Tender Fee	1.00 (INR)	0.00	0.00	1.00 (INR)
2	Emd Fee	2.00 (INR)	0.00	0.00	2.00 (INR)

Encrypt&Upload

C) NEFT/RTGS

(i) Bidders may choose the type of transaction and proceed for payment.

SBI ONLINE

STATE BANK MULTI OPTION PAYMENT SYSTEM

Please Select Appropriate Card Type To Avoid Failures (C-Credit Card Options/D For Debit Card)

Net Banking

SBI
Bank Charges:
[Click Here](#)

Other Banks
Bank Charges: 59.0
[Click Here](#)

Card Payments

Other Payments Modes

NEFT/RTGS
Bank Charges: 0.0
[Click Here](#)

[Cancel](#)

© State Bank of India Site best viewed in I.E 10 +, Mozilla 30 +, Google Chrome 30 +

(ii) Please click the check Box to proceed to the payment and click on the Confirm Button.



Disclaimer Clause

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☐ I have read and accepted the terms and conditions stated above.
(Click Check Box to proceed for payment)

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- (iii) Please ensure that your account has sufficient balance, before proceeding further. After checking the same, Click **Confirm** button as below, to transfer payment.




Your site visit: 18-Sep-2018 [11:45 IST]

e-procurement payment

Payment details	
Reference Number	117725193159
Department ID	AAA
EMD Amount	3
Tender Fee	2
RISL Fee	0
Amount	5
Amount in words	Five Rupees only

[Click here](#) to abort this transaction and return to the e-procurement payment site

 > Mandatory fields are marked with an asterisk (*)

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- (iv) Click **Confirm** button as below, to transfer payment.

Your site visit: 18-Sep-2018 [11:46 IST]

e-procurement payment

Payment details

Reference Number	117725193159
Department ID	AAA
EMD Amount	3
Tender Fee	2
RISL Fee	0
Amount	5
Amount in words	Five Rupees only

[Confirm](#)

> Mandatory fields are marked with an asterisk (*)

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- (v) The challan is generated after successful transaction.

Your site visit: 18-Sep-2018 [11:46 IST]

e-procurement payment NEFT/RTGS Form

Beneficiary Details

Beneficiary Account Number (to be entered as it appears)	PS0504CF08023167
Amount	Rs. 5
Amount In Words	Five Rupees only
Beneficiary Bank	State Bank of India
Beneficiary IFSC Code	SBI00047676
Name & Address	e-procurement payment
Beneficiary Reference Number	117725193159

Notes for Bidders:

- The remittance should be within the prescribed time and as per the terms and conditions specified in tender.
- Please ensure the correctness of details inputted while remittance through RTGS/NEFT. SBI and State Bank of India would not be responsible for the transactions initiated due to incorrect details inputted.
- For RTGS/NEFT transactions, Date and time at which payment is received in SBI would be relevant for the purpose of determining the issue as to whether payment was received in time or not. Therefore, bidders should make transactions well in advance so as to ensure that the payment reaches SBI before date and time for submission of tender.
- Bank for which payment is received after closing date/time for submission of tender bid would be rejected and would not be considered for further processing. The payment would be returned back to the bank account from which the transaction was made.
- Bidders should verify/check the payment status on a procurement portal. The transaction for which payment is received before bid tender closing date and time would be displayed as SUCCESSFUL in the portal. Otherwise bidders may contact their bank from which the transaction was made.
- Bidder should ensure that tender document fees and EMD are remitted as one single transaction and not separate.
- Bidder should ensure that account no. entered during RTGS/NEFT remittance at any bank counter or Internet banking site is the same as it appears in e-Procurement remittance form. Bidder should not provide this account number.
- No additional information like Bidder's name, company name, etc. should be entered in the account no. column along with account no. for RTGS/NEFT remittance.
- Call or Throttle across the counter in SBI and Associates Bank not allowed and the payment may be treated as invalid and the respective bid is liable to be rejected.
- Please obtain UTR no. from your remitting bank for your remittance reference.
- Please note that this is only a remittance information form and not an acknowledgment of remittance.

In case the above points are not followed, the payment may be treated as invalid and the respective bid is liable to be rejected.

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[Click here to accept the Remittance Form](#)

[Click here to Download in pdf](#)

[Click here to return to the Tenders/e-procurement payment site.](#)

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(vi) The Downloaded challan of the e-procurement RTGS/NEFT Remittance Information

e-procurement payment RTGS/NEFT Remittance Information Form	
Beneficiary Details	
Beneficiary Details	
Beneficiary Account Number (to be entered as it appears)	PSEGACPJ8923167
Amount	Rs. 5
Amount In Words	Five Rupees only
Beneficiary Bank	State Bank of India
Beneficiary IFSC Code	SBIN0017676
Name and Address	e-procurement payment
Beneficiary Reference No	117725193159
Instructions for remitting Bank: - This form is valid for remittance through non-SBI branches. - Beneficiary account no. is alpha-numeric and case sensitive. It should be entered as it appears above. - Amount to be remitted should not be higher or lesser and should be the same as shown above.	
Note for Bidders: - Bidder should ensure that account no. entered during RTGS/NEFT remittance at any bank counter or Internet banking site is the same as it appears in this remittance form. Bidder should not truncate or add any other detail to the above account number. - No additional information like bidder name, company name, etc. should be entered in the account no. column along with account no. for RTGS/NEFT remittance. - Account to Account transfers or Cash payments are not allowed and are invalid mode of payments. Hence, this remittance form is to be used only for RTGS or NEFT payment. - Bidder should ensure that tender document fees and EMD are remitted as one single transaction and not separate. The remittance should be within the prescribed time and as per the terms and conditions specified in tender. - Please ensure the correctness of details inputted while remittance through RTGS/NEFT. Please also ensure that your banker keys in the Account Number (which is case sensitive) as displayed in this form. SBI and Merchant Bankers should ensure that the details are correctly inputted. - For RTGS, the purpose of remittance should be relevant for the purpose of tender. Therefore, bidders should make remittance before date and time for submission of tender. - Bids for which Payment is received after closing date/time for submission of tender/bid would be rejected.	

AIRPORTS AUTHORITY OF INDIA
General Guidelines for Bidders

Item rate / ~~Percentage rate/ EPC~~ e-tenders are invited through the e-tendering CPP portal by **Sr. Manager (Engg.-C), Airports Authority of India, Pakyong Airport, Pakyong, Sikkim-737106 (Bid Manager)** on behalf of Chairman, AAI from the eligible contractors for the work of **“Provision of Joint Filling with Polysulphide sealant, Sure bond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.”** at an estimated cost of **Rs. 38,85,567/- (excluding GST) with completion period of 90 Days.**

1. The Tenders shall be in the prescribed Form are invited in two bid system:
 - i) 1st Bid Envelope-I : Tender processing fee, EMD, Technical Bid and Pre-qualification
 - ii) 2nd Bid Envelope-II : Price Bid
2. Not more than one Tender shall be submitted by a contractor or by a firm. No two or more concerns in which an individual is interested, as Proprietor and/or partner shall tender for the execution of the same works. If they do so, all such Tenders shall be liable to be rejected.
4. The Accepting Authority as mentioned in **Schedule “F”/2(viii)**, shall be the Accepting Officer hereinafter referred to as such for the purpose of this contract.
5. Tender documents can be downloaded from the CPP e-tendering portal. Tender processing fee of Rs. 1180/- (i/c GST) Non-refundable will be required to be paid online through Payment Gateway on CPP Portal. The last date of submission of bid is as mentioned in Critical Data Sheet of Notice Inviting Tender.
6. Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. The bidders shall be responsible for arranging and maintaining at their own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents.
7. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by Airports Authority of India, local conditions and other factors having a bearing on the execution of the work. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed.
8. All rates shall be quoted in the **respective Section** in CPP e-tender Portal (**Price Bid i.e. Envelope-II**).

9. As this tender is a Item rate Tender, rates for all items quoted shall only be considered. Any Tender containing percentage below/above the total estimated cost is liable to be rejected. Tenderers which propose any alteration in the works specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates will be summarily rejected. In case above conditions are found violated, the tender shall be rejected and AAI shall, without prejudice to any other remedy, be at liberty to forfeit the 10% of said earnest money.
10. Tenders shall be received through CPP e-tendering portal as per the dates in critical date sheet of NIT.
11. The tenderer should study the complete tender document. In order to facilitate AAI to prepare responses, the interested tenderers are requested to submit their queries (if any), in CPP e-tender portal only, as per time schedule specified in NIT. The tenderers queries shall be replied through e-portal only.
12. **Earnest Money Deposit (EMD):**
 - a. EMD of Rs. 1,16,567/- will be required to be paid online through Payment Gateway on CPP Portal ~~or offline through Bank Guarantee.~~
 - b. The settlement of the tender processing Fee, forfeiture/ refund of the EMD as per case will be executed to bidder through online mode.
 - c. State Bank of India (SBI) has been authorized as Nodal Bank and its payment gateway has been integrated/ mapped with CPP Portal for the collection of Tender Processing Fee and EMD through e-procurement portal from various bidders participating in e-Tendering/ e-Procurement process.
 - d. On acceptance of the Tender, the earnest money will be treated as part of the security deposit. The EMD of the successful tenderer will be returned if the tenderer furnishes the security deposit.
 - e. AAI will return the EMD where applicable to every unsuccessful tenderer except as provided in the tender inviting notice.
 - f. No interest or any other expenses, whatsoever on the EMD will be payable by AAI.
 - g. The Tender EMD may be forfeited in the following case:
 - i) If a tenderer withdraws its tender during the period of tender validity specified in the tender conditions.
 - ii) In the case of a successful Tenderer, if the Tenderer fails -
 - (A) To sign the Contract agreement.
 - (B) In case of any false/incorrect information/document submitted by tenderer or have some discrepancy.
13. **Power of attorney/authorization for signing tender:**
 - a) Only the Power of Attorney/Authorization holder of the tenderer on whose name the tender has been uploaded shall sign the Tender documents.
 - b) The name and designation of the person or persons of the company who is authorized to sign shall be clearly indicated in the authority letter.
 - c) In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power-of-attorney authorizing him to do so. Such power of attorney to be uploaded

in Envelope-I, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.

14. Notification of Award of contract will be made in writing to the successful bidder by the Accepting Authority or his representative. The contract will normally be awarded to the qualified and responsive Bidder offering the lowest evaluated bid in conformity with the requirements of the specifications and contract documents, and the Accepting Authority shall be the sole judge in this regard. The Accepting Authority does not bind itself to accept the lowest or, any tender or to give any reason for his decision. **A responsive bidder is one who submits priced Tender and accepts all terms and conditions of the specifications and contract documents. A Tenderer shall submit a responsive bid, failing which his Tender will be liable to be rejected.**
15. The Accepting Authority does not bind itself to accept lowest tender or any tender and reserves to itself the right of accepting the whole or any part of the tender and tenderer shall be bound to perform the same at his quoted rates. No claim whatsoever will be entertained on this account
16. The Tenderer shall not be permitted to tender for works in Airports Authority of India Engineering Department, responsible for award and execution of contracts, in which his near relative is posted as Manager (Finance & Accounts) or Sr. Officer or as an engineer in any capacity. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any officer in Airports Authority of India. Any breach of this condition by the contractor would render him liable to be debarred from Tendering for next 2 years.
18. The contractors shall give a list of AAI employees related to him.
19. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of Airports Authority of India/Govt. of India is allowed to work as a contractor for a period of two years of his retirement from Airports Authority of India/ Government service, without the prior permission of Airports of India/Govt. of India. The contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Airports Authority of India/Govt. of India as aforesaid before submission of the Tender or engagement in the contractor's service.
20. **The Tender for the work shall remain open for acceptance for a period of Ninety days (90) days from the date of opening of Financial Bid (Envelope-II). If any Tenderer withdraws his tender before the said period or makes any modifications in the terms and conditions of the Tender which are not acceptable to the Department, then Airports Authority of India shall without prejudice to any other right or remedy, be at liberty to forfeit the full said earnest money absolutely.**
21. **The site for the work shall be made available in phases. Agencies are advised to visit site in detail, before submission of the bid.**
22. **On acceptance of the Tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated to the Engineer-in-Charge within 10 days of acceptance of tender.**
23. A tenderer shall submit the tender which satisfies each and every condition laid down in this notice failing which the Tender will be liable to be rejected. Also

if the credential submitted by the firm found to be incorrect/false or have some discrepancy which disqualifies the firm then the AAI shall take the following action:

- a) Forfeit the **entire amount of EMD** submitted by the firm.
- b) Debar the firm for minimum three years to tender in AAI in any name/style.

24. **Taxes**

i) **All tendered rates should be inclusive of all taxes, duties, cess, fee, royalty charges etc. levied under any statute but exclusive of GST (Goods & Service Tax). Wherever supplies/ services involve imports, the same should be identified separately. Basic Custom Duty will be paid by AAI by utilising EPCG license/ duty scrip under SEI scheme of Govt. GST shall be paid to bidder for any taxable supply/ services against a valid Tax invoice.**

ii) **An understanding should be submitted for registration under GST and compliance of GST provisions.**

iii) **In case of non-compliance of GST provisions and blockage of any input credit the bidder shall be responsible to indemnify AAI.**

25. a) If any further tax or levy is imposed by Statute, after the last stipulated date for the receipt of tender including extensions if any and the contractor thereupon necessarily and properly pay such taxes/ levies, the contractor shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of the Engineer-In-Charge (whose decision shall be final and binding on the contractor) attributable to delay in execution of work within the control of the contractor.

b) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of Airports Authority of India and / or Engineer-In-Charge and further shall furnish such other information/document as the Engineer-In-Charge may require from time to time.

c) The contractor shall, within a period of 30 days of the imposition of any such further tax or levy, pursuant to the Constitution (46th amendment) Act 1982, give a written notice thereof to the Engineer-In-Charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

26. **MODE OF SUBMISSION OF TENDERS:**

Tender for the present work shall be submitted online through e-tendering portal in two bids (i.e. Envelope I& II) system as detailed below:

Envelope-I (Technical Bid and Pre-qualification):- Bid Containing following:-

A. Technical Bid containing the following:

- i) Scanned copy of Tender Acceptance Letter on Bidder's Letter Head. (As per Annexure 1 on page PR-1)
- ii) Scanned Copy of Permanent Account Number (PAN) and GST Registration Number.
- iii) Scanned Copy of 'Undertaking' regarding Blacklisting/Debarment on Bidder's Letter Head. (As per Annexure 2 on page PR-2)
- iv) Scanned copy of Form- A - details of similar works completed during last seven years supported with completion certificate issued by client. (refer page PR-4)

- v) Scanned copy of Form- B - Financial Information (refer page PR-5)
- vi) Scanned copy of Form- C – Net Worth. (refer page PR-6)
- vii) Bidder shall submit scanned copy of ‘Undertaking’ on Company’s Letter Head for deployment of plant and machinery (refer page PR-8)
- viii) Bidders other than propriety firm shall submit, scanned copy of Authorization Letter/Power of Attorney along with copy of Certificate of Incorporation of the Company under Companies Act showing CIN/LLPIN/Name of Directors of the Company & Copy of Board Resolution regarding Authority to assign Power of Attorney.
The Proprietary firm shall submit scanned copy of Authorization Letter/Power of Attorney only if the tender is processed by a person other than proprietor.
- ix) PQ Performa duly filled.(as annexed at page PQ-1 to PQ-4)

The bidders shall submit their applications as per “Pre-qualification Performa”, in the tender document and fill up the required information and upload the digitally signed file of scanned documents and firm’s bio-data in support of their meeting each criterion in the technical bid/ attachment section in the portal. Uploading of application in location other than specified above not shall be considered. Hard copy of application shall not be entertained.

The bidder shall only upload/ submit the above-mentioned documents. The tender document containing General Conditions of Contract, Special Conditions of contract, Technical Specifications and all other contents in the tender document for the work is not required to be uploaded.

Envelope-II (Price Bid)

Rates to be quoted (exclusive of GST) in the respective Section only in “**Envelope-II**”/ **Price Bid** where brief indicative description of item & unit have been given. Full description of Item & unit is available in **Schedule “A”** of GCC. Before quoting rates in respective section in Price bid, the bidders are advised to read the full description of respective item & Unit from **Schedule “A”**. No other format is acceptable.

27. Tenders shall be processed as below

Envelope-I: Containing Tender processing fee, EMD, Technical bid and Pre-qualification Documents (Uploaded by the contractors/ firms) shall be opened on as mentioned in **CRITICAL DATE SHEET**. The intimation regarding acceptance/ rejection of their bids will be intimated to the contractors / firms through CPP e-tendering portal.

Envelope-II: Containing financial bid of the tenderers found to be meeting the technical criteria and qualifying requirements shall be opened on date & time mentioned in CRITICAL DATE SHEET. (In case the date and time for opening of Envelope-II (Financial bid) is required to be changed, the same shall be intimated through CPP Portal).

Note: Once the bidder has submitted the digitally signed file of Unconditional Acceptance of AAI’s Tender Conditions, he is not permitted to upload any additional file or put any remark(s)/conditions(s)

AAI reserves the right to accept or reject any or all applications without assigning any reasons. AAI also reserves the right to call off tender process at any stage without assigning any reason.

28. Clarifications:

- i) If the bidder has any query related to the Tender Document of the work they should use 'Clarification' tab in CPP-tendering portal to seek clarifications. No other means of communication in this regards shall be entertained. Last date and time for raising query shall be as stipulated in NIT.
- ii) If any clarification is needed by AAI from the bidder about the deficiency in their uploaded documents in Envelope-I, they will be asked to provide it through CPP-tendering portal. The bidder shall upload the requisite clarification/documents within specified time by AAI failing which tender will be liable for rejection.

In case above conditions are found violated, the tender shall be rejected.

29. **COMPARISON AND EVALUATION OF TENDER**

- a) Prior to detailed evaluation, AAI will determine the substantial responsiveness of Tender document. A substantial responsive Tender is one, which confirms to all the terms and conditions of the Tender.
- b) A tender is determined as not responsive, if tender is submitted incomplete, annexure are not filled up, unconditional acceptance letter minimum wages affidavit, integrity pact and power of attorney not found in proper form etc. etc. as described above such tenders are liable to be rejected by AAI.
- c) In case if any condition is found violated after opening Envelope-I i.e. Technical Bid, the tender shall be summarily rejected and AAI shall, without prejudice to any other remedy, be at liberty to forfeit the 10% of said earnest money.

Only those tenderers whose Technical Bid documents are acceptable to AAI will be examined and their techno-commercial bid shall be evaluated to determine whether they are complete, meets tender requirements, free from computational errors, whether the data have been properly filled up, and whether the requisite documents as detailed have been submitted in conformity to the Tender specifications, drawings and conditions.

30. **Price bid:-**

The Price e-Bid through CPP e-portal.

- a) Tenderer should download the "Tender Document" file along with BOQ from the CPP e-tendering portal and upload the digitally signed BOQ file along with desired documents in Envelope-I.
- b) Rates to be quoted in the column mentioned for rate only.
- c) The offer from those contractors whose digitally signed required documents are not found in "Envelope-I" will not be considered and will stand rejected and Envelope-II (financial bid) of such contractors shall not be opened.
- d) Price bid shall only be accepted in the desired format. No other format shall be accepted.
- e) In case, the condition 30 (d) above is found violated, the tender shall be rejected.

31. **REJECTION OF TENDER: -**

- a. Airports Authority of India reserves the right to reject all the tenders or any of the tender or any part of tender without assigning any reason.
- b. AAI reserves the right at its sole discretion not to award any work under this tender. AAI shall not pay any costs or loss incurred by the tenderers in the preparation and submission of any requisite tender or technical proposal or to procure contract for any of the items described herein.

- c. If the tenderer deliberately gives wrong information or suppress any information in his Tender, AAI reserves the right to reject such tender at any stage or to cancel the contract, if awarded, and to forfeit the Earnest Money, absolutely, in addition to any other appropriate/legal action.
 - d. Canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by firms who resort to canvassing are liable for rejection.
 - e. Any deviation in the Tender submission procedure will be considered as non-responsive bid and liable to be rejected.
 - f. A Tenderer shall submit a responsive bid, failing which his Tender will be liable to be rejected.
 - g. Tender in which any of the particulars and prescribed information are missing or are incomplete, in any respect and/or prescribed conditions are not fulfilled, shall be considered non-responsive and is liable to be rejected.
 - h. The tenderer is expected to examine the tender document including all instructions, forms, terms, specifications, drawings, etc. Failure to furnish all information required as per the tender documents or submission of a tender not substantially responsive to the tender document in any respect may result in the rejection of the tender.
 - i. A Tenderer shall submit the Tender which satisfies each and every condition laid down in this notice failing which the Tender will be liable to be rejected.
 - j. Any tender not accompanied with EMD in the prescribed form will be considered non responsive and rejected.
32. This notice of Tender shall form part of the contract documents. The successful Tenderer/contractor, on acceptance of his Tender by the Accepting Authority, **shall within 15-days from the stipulated date of start of work, sign the contract consisting of** Notice inviting Tenders, General conditions of contract, special/additional condition, General and particular specifications, Tender conditions as issued at the time of invitation of Tender and acceptance thereof with any correspondence leading there to.
33. The tender for the work shall not be witnessed by a contractor or contractors who himself / themselves has/have tendered or who may have tendered for the same work. Failure to observe this condition would render tender of the contractor tendering as well as witnessing the tender, liable to summarily rejection.
34. AAI shall be the sole judge in the matter of evaluating & accepting technical bids, Price bids and award of contract and decision of AAI shall be final & binding.
35. AAI reserve the right to verify the credential submitted by the agency at any stage (before or after the award of work) If at any stage, any information / documents submitted by the applicant is found to be incorrect / false or have some discrepancy which disqualifies the firm then AAI shall take the following action:
- a. The agency shall be liable for debarment from tendering for minimum two years in AAI in any name/style, apart from any other appropriate contractual / legal action.

36. **IMPLEMENTATION OF INTEGRITY PACT**

- a) ~~Signing of Integrity Pact (Appendix XVIII on page GCC 169 to GCC 178) is mandatory for every Bidder/ contractor in this procurement/ bid process. Scanned copy of the integrity pact shall be uploaded in the Envelope I in e-tender portal.~~
- b) ~~The Bidder/ contractor shall commit itself to ensure taking all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage as specified in Section 3 of the integrity pact.~~
- c) ~~Any breach of the aforesaid provisions by the bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the authority to take all or any one of the action as specified in Section 6 of the integrity pact.~~

The Independent External Monitor (IEM) for this work will be:

Shri J.K. Khanna,

IPS (Retd.),

A-102, Sector-55,

Noida-201307 (UP)

Phone No. +91-9810940403

Email: jkkhannaips@yahoo.com

Shri Ramabhadran Ramanujam, IAS (Retd.)

Residential Address: 44/24, Third Trust Cross Street,

Mandavelipakkam, Chennai- 600028

Tel. No: +91- 9495511954

Email: raamaanuj@gmail.com

- d) ~~The duties responsibilities and powers of IEM are detailed in section 8 of the IP Act.~~
- e) ~~Any query related to tender document or problem in e bidding process should normally be addressed to bid manager as mentioned in **General Instruction for Online bid submission (Annexure AA)** in para “Assistance to Bidders” on page IB-1 to IB-4 of tender document. **No bid procedure related query shall be referred to Independent External Monitor (IEM).**~~
- e) ~~Update with regard Integrity Pact may please be seen on AAI Website by following the access path [www.aai.aero>Vigilance>Vigilance Events>Integrity Pact](http://www.aai.aero/Vigilance/VigilanceEvents/IntegrityPact)~~
- g) ~~The Consequence of Integrity Pact may be perused on the website.~~

<http://www.aai.aero/>

37. **STANDARD PRINTED CONDITIONS**

Standard printed conditions of the tenderer if any submitted along with the offer will not be accepted.

**Sr.. Manager (Engg.-Civil)
Airports Authority of India,
Pakyong Airport**

PQ Performa

(TO BE UPLOADED BY THE TENDERER IN ENVELOPE-I)

Name of Work :- “Provision of Joint Filling with Polysulphide sealant, Sure bond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.

S. No.	PARTICULARS	Details of ATTACHMENTS / ENCLOSURES CHECK LIST (to be uploaded / enclosed)	
	Name, Address, Organization ID, Tel./Fax No. & e-mail address of Bidder		
1	Envelope-I (Tender Processing Fee, EMD, Technical Bid & Pre-qualification):		
(A)	Tender Processing fee & EMD		
(i)	Tender fee	Tender fee for an amount of Rs. 1180/- Paid Through online CPP Portal as per e-NIT Clause-2.	Scan copy of online payment receipt. YES/NO
(ii)	EMD	EMD for an amount of Rs. 1,16,567/- Paid through online CPP Portal as per e-NIT Clause-2.	Scan copy of EMD. YES/NO
(B)	Technical Bid:		
(i)	Tender Acceptance Letter	Format given as Annexure 1 on page PR-1	Scanned copy of Acceptance Letter uploaded. YES/NO
(ii)	PAN card	Enclose documentary proof in support of e-NIT Clause 2	PAN card uploaded YES/NO
(iii)	GST Registration Number	Enclose documentary proof in support of e-NIT Clause 2	GST registration uploaded YES/NO
(iv)	Undertaking' regarding black listing/ debarment on company's letter head.	Format given at Annexure-2 on page PR-2	Undertaking uploaded YES/NO
(v)	Scanned copy of Form-A - details of similar works completed during last seven with completion certificate	Form-A on page PR-4	Form-A uploaded YES/NO

	issued by client.		
(vi)	Scanned copy of Form-B - Financial Information	Form-B on page PR-5	Form-B uploaded YES/NO
(vii)	Scanned copy of Form-C – Net Worth	Form-C on page PR-6	Form-C uploaded YES/NO
(viii)	~~Scanned copy of signed integrity pact as per Appendix XVIII of GCC~~	~~Appendix XVIII of GCC~~	~~Integrity Pact uploaded~~ ~~YES/NO~~
(ix)	Undertaking' for deployment plant and machinery	Format given at Annexure-2 on page PR-8	Undertaking uploaded YES/NO
(x)	Power of Attorney/ Authorization letter, if applicable	Enclose documentary proof in support of e-NIT Clause 2	Power of Attorney/ Authorization letter uploaded. YES/NO
(xi)	PQ Performa.	Enclose duly filled PQ Performa	PQ performa uploaded. YES/NO
(C)	Pre-qualification:		
(i)	Satisfactorily completed work experience (#Phase/Part completion of the scope of work in a contract shall not be considered; however pre- determined phasing of the work will be accepted)	Should have successfully completed or *substantially completed three works, each of Rs. 15,54,227/- or two works, each of Rs. 19,42,784/- or one work of Rs. 31,08,454/- in single contract of similar nature of works as per e-NIT clause 2. Tenderers showing work experience certificate from non-government/non- PSU organizations should submit copy of TDS certificate(s) as per e-NIT clause 2.	Completion Certificates with PO and BOQ /TDS certificates uploaded. YES/NO (The details of each work to be filled in columns shown below.)
	a) Work No.1		
	Name of client		
	Name of work (viz. similar nature as per E-NIT)		
	Completion Cost		
	Date of Start		
	Date of Completion (stipulated)		
	Date of Completion (Actual)		
	TDS Certificate, if experience certificate		

	from non-government/non-PSU Client		
	b) Work No.2		
	Name of client		
	Name of work (viz. similar nature as per E-NIT)		
	Completion Cost		
	Date of Start		
	Date of Completion (stipulated)		
	Date of Completion (Actual)		
	TDS Certificate, if experience certificate from non-government/non-PSU Client		
	c) Work No.3		
	Name of client		
	Name of work (viz. similar nature as per E-NIT)		
	Completion Cost		
	Date of Start		
	Date of Completion (stipulated)		
	Date of Completion (Actual)		
	TDS Certificate, if experience certificate from non-government/non-PSU Client		
(ii)	Annualized average financial turnover The Financial Information shall be submitted in the given format – Form-B.	Annual Financial Turnover of Rs. 13,75,491/-on construction work against works as per E-NIT Clause 2	Copy of Annual Report i.e. Abridged Balance Sheet and Profit & Loss Account from CA for the last three years uploaded. YES/NO (The amount to be filled in columns shown below.)
	Year		

	2022-23		
	2023-24		
	2024-25		
	Average		
(iii)	Minimum Net worth Certificate should be submitted in the given format- Form-C.	Minimum net worth of Rs. 5,82,835/-issued by certified CA as per Format given at page PR-6 in tender document as per e-NIT clause -2	CA certificate uploaded. YES/NO
2	Envelope-II (The Financial e-Bid through CPP Portal):		
	Financial Bid	All rates shall be quoted in the format provided as per e-NIT Clause 2	Financial- Bid submitted. YES/NO

DECLARATION

I hereby declared that the documents submitted / enclosed are true and correct. In case any document any documents at any stage found fake/false/incorrect, my EMD may be forfeited and action as deemed fit by AAI can be taken against me.

Place:

Date:

**SIGNATURE OF THE CONTRACTOR
ALONG WITH STAMP**

**AIRPORTS AUTHORITY OF INDIA
GENERAL CONDITIONS OF CONTRACT**

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GENERAL GUIDELINES

1. This book of “General Conditions of Contract” is applicable to both types of tenders i. e.” Percentage rate tenders and Item rate tenders”. Accordingly, alternative provisions for conditions Nos. 4, 10 & 12 of the General Rules and Directions are given in this book. The appropriate alternatives will be applicable in specific cases depending on whether this is used for percentage rate tenders or item rate tenders.
2. Notice Inviting Tender, Schedules A to F, special conditions/specifications and drawings only will be issued to intending bidders. The standard form will not be issued along with the Tender Documents but the same shall form part of the agreement to be drawn and signed by both parties after acceptance of tender.
3. All blanks are confined to Notice Inviting Tender and Schedules A to F.
4. Authority approving the Notice Inviting Tenders (NIT) shall fill up all the blanks in Notice Inviting Tender and in Schedules B to F before issue of Tender documents.
5. The intending bidders will quote their rates in Schedule A.
6. The proforma for registers and Schedules A to F are only for information and guidance. These are not to be filled in the Standard Form. The Schedules with all blanks, duly filled, shall be separately issued to all intending tenderers.

AIRPORTS AUTHORITY OF INDIA

~~Percentage Rate Tender~~/Item Rate Tender & Contract for Work

Pakyong Airport :

Branch : Office of : SM(Engg.-C), Pakyong Airport, Pakyong

(A) Tender for the work of:- **Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport."**

(i) To be submitted/ uploaded upto hours on in NIC CPP Portal.

(ii) To be opened in presence of tenders who may be present on.....at hrs. in the office of

Issued to ----- *

Signature of officer issuing documents ----- *

Designation ----- *

Date of issue ----- *

*(ii) Not applicable for e-tendering

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of contract, Special conditions, Schedule of Rates & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I / We hereby tender for the execution of the work specified for the Chairman Airports Authority of India within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such material as are provided for, by and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for Ninety (90) days from the date of opening of financial bid in 3/2 bid system and not to make any modifications in its terms and conditions.

I / We undertake and confirm that for eligibility of similar work(s) has / have not been got executed on back to back basis through another contractor. Further that, if such a violation comes to the notice of AAI, then I/We shall accept the decision of AAI if we are debarred for tendering in AAI in future works. Also, if such a violation comes to the notice of AAI before date of start of work, the Engineer- in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee.

I / We further undertake and confirm that information/ documents submitted by us are genuine, and if at any stage such documents/ information found false, then we shall be liable for debarment from tendering in AAI, and any other appropriate legal action.

A sum of **Rs. 1,16,567/-** is here by submitted as online ~~Demand Draft/FDR/Bank Transfer/ RTGS/BG*~~ in the format prescribed in tender documents as earnest money(Appendix-I).-If I/we, fail to furnish the prescribed performance bank guarantee within prescribed period, I/we agree that the said Chairman, A.A.I. or his successors in office shall without prejudice to any other right or remedy, be at liberty to take appropriate action as per the terms of the contract. Further, if I/we fail to commence work as specified, I/we agree that Chairman, A.A.I. or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money absolutely, otherwise the said ~~earnest money~~ shall be retained by AAI towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of earnest money or Performance Guarantee or both Earnest Money & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I / We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I/we am/are authorised to communicate the same or use the information in any manner prejudicial to the safety of the State. (* To be deleted which are not applicable)

Date : Signatures of Contractor :

Witness: Postal Address

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by competent authority on behalf of the Chairman, Airports Authority of India for sum of Rs. (Rupees).

The letters referred to below shall form part of this contract Agreement:-

- (i)
- (ii)
- (iii)

For & on behalf of Chairman, Airports Authority of India Signature-----

Designation----- Date-----

AIRPORTS AUTHORITY OF INDIA
General Rules & Directions

1.	General Rules & Directions	All work proposed for execution by contract are notified in a form of invitation to tender pasted in public places /NIC CPP Portal and signed by the officer inviting tender or by publication in Newspapers and posted on AAI web-site and NIC CPP Portal http://etenders.gov.in and www.aai.aero (for reference only). This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of Officer inviting tender during office hours.
2.		In the event of the e-tender being submitted by a firm, it must be digitally signed. Such tender will be treated as signed tender. For physical tender it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power-of-attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
2. (A)		~~In case of the tender submitted by a Joint Venture / Consortium, a copy of joint venture / consortium agreement in the specified proforma defining the lead partner should be submitted. The lead partner shall sign all the documents in respect of the works. The documents signed by any other person or firm other than the lead partner shall not be entertained.~~
3.		Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm. Bank details shall be furnished by

		the firm through an application duly signed by all partners for payment to the firm through bank transfer.
4.	Applicable for item Rate Tender only .	Any person who submits a tender shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. Tenderers, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes. The rate(s) must be quoted in decimal coinage. Amount must be quoted in full Rupees by ignoring 50 paise and considering more than 50 paise as Rupee one. In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors will be asked to submit revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer. If the revised tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tender, among such contractors, shall be decided by draw of lots in the presence of Jt. GM (Engg) / DGM (Engg) / AGM (Engg) / Sr. Manager (Engg) in-Charge of major and minor component(s) work and the lowest contractors those have quoted equal amount of their tenders. In case of any such lowest contractor in his revised offer quotes rate of any item more than their respective original rate quoted earlier at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest contractor or case of refusal to submit revised offer by the lowest contractor shall be treated as withdrawal of his tender before acceptance and 50% of his earnest money shall be forfeited. In case all the lowest contractors those have same tendered amount (as a result of their quoted

		rate of individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractors. Contractor, whose earnest money is forfeited because of non-submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission of his bid shall not be allowed to participate in the retendering process of the work. Note: Till the time software supports the above provisions, revised offers from tenderers forming the tie shall be obtained and procedure prescribed for "Restricted call of tenders" shall be adopted (for e-tenders).
4. (A)	Applicable for Percentage Rate Tender only.	~~In case of Percentage Rate Tenders, tenderer shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule A, he will be willing to execute the work. The tender submitted shall be treated as invalid if; 1. The contractor dose not quote percentage above/below on the total amount of tender or any section/sub-head of the tender. 2. The percentage above / below is not quoted in figures & words both on the total amount of tender or any section / sub-head of the tender. 3. The percentage quoted above/below is different in figures and words on the total amount of tender or any section / sub-head of the tender. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes. In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more bidders is same, such lowest bidders will be asked to submit revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above / below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender.~~

		The lowest tender shall be decided on the basis of revised offers. In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited. If the revised tendered amount of two more bidders received in revised offer is again found to be equal, the lowest tender, among such bidders, shall be decided by draw of lots in the presence of Jt. GM (Engg) / DGM (Engg) / AGM (Engg) / Sr. Manager (Engg) in Charge of work & the lowest bidders those who have quoted equal amount of their tenders. In case all the lowest bidders those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each bidder. Bidders, whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work. Note: Till the time software supports the above provisions, revised offers from tenderers forming the tie shall be obtained and procedure prescribed for "Restricted call of tenders" shall be adopted.
4. (B)		In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractor is same, such lowest contractor will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub section/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section /sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers. In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited. If the revised tendered amount of two more contractors received in revised offers is again found to be equal, the lowest tender, among such contractor, shall be decided by draw of lots in the presence of Jt.GM (Engg) / DGM (Engg), AGM (Engg) / Sr. Manager (Engg) in Charge of major & minor component(s) of work & the lowest bidders those who have quoted same tendered amount of their tenders. In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after

		~~forfeiting 50% of EMD of each bidder. Bidders, whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work~~
5.		~~The officer inviting tender or his duly authorized representative, will open tenders in the presence of any intending bidders who may be present at the time, and will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule — I. In the event of a tender being rejected, the earnest money shall thereupon be returned to the contractor remitting the same, without any interest.~~
6.		The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
7.		The receipt of an accountant or clerk for any money paid by the bidder towards tender fee will not be considered as any acknowledgement or payment to the officer inviting tender and the bidder shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorised cashier.
8.		The memorandum of work tendered for and the schedule of materials to be supplied by the department and their issue-rates, shall be filled and completed in the office of the officer inviting tender before the tender form is issued. If a form is issued to an intending bidder without having been so filled in and incomplete, he shall request the officer to have this done before he completes and delivers his tender.
9.		The bidders shall sign a declaration under the officials Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful bidders shall return all the drawings given to them.
9(A).		Use of correcting fluid anywhere in tender document is not permitted. Such tender is liable for rejection. If there is any correction it should be cut with a straight line and should be initialed and cello tape to be provided on all the rates quoted in case of physical tenders.

10.	Applicable for Item Rate Tender Only.	In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below / above the rates quoted is liable to be rejected. Rates quoted by the bidder in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, i. If a discrepancy is found between rates in figures and in words, then the rates which correspond with the amount worked out by the bidder shall unless otherwise proved be taken as correct. ii. If the amount of an item is not worked out by the bidder or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. iii. Where the rates quoted by the bidder in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. iv. In event no rate has been quoted for any item(s) leaving space blank both in figure(s) and word(s) or cancelled the quoted rate in figure(s), and word(s) but the amount corresponding to the item(s) is worked out by the bidder and added to the grand total, then rate(s) of the items(s) shall be derived from the amount(s) quoted by the contractor against such item(s). v. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the bidder has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly. vi. Sub Para i to iv above shall not be applicable in case of e-tendering
	Applicable for percentage rate tender only .	~~In case of percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected Percentage quoted by the bidder in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. However, if the bidder has worked out the amount of the tender and if any discrepancy is found in the percentage~~

		quoted in words and figures, i. ~~The percentage which corresponds with the amount worked out by the bidder shall, unless otherwise proved, be taken as correct.~~ ii. ~~If the amount of the tender is not worked out by the bidder or it does not correspond with the percentage written either in figures or in words, then the percentage quoted by the bidder in words shall be taken as correct.~~ iii. ~~Where the percentage quoted by the bidder in figures and in words tally but the amount is not worked out correctly, the percentage quoted by the bidder will, unless otherwise proved, be taken as correct and not the amount.~~
11.		In the case of any tender where unit rate of any item / items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.
12.	Applicable for Item Rate Tender only.	All rates shall be quoted on the tender form. The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word 'Rs' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15 P' and in case of words, the word 'Rupees' should precede and the word 'Paise' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be upto two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line
12(A).	Applicable for percentage rate tender only.	~~In Percentage Rate Tender, the tenderer shall quote percentage below / above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs' should be written before the figure of rupees and work 'P' after the decimal figures, e.g. 'Rs. 2.15 P' and in case of words, the word 'Rupees' should precede and the word 'Paise' should be written at the end. (quoting of rates in Paise is not applicable in e-tenders)~~

13	Acceptance of abnormally low quoted bid	An Abnormally Low Bid is one in which the Bid price, in combination with other elements of the Bid, appears so low that it raises material concerns as to the capability of the Bidder to perform the contract at the offered price. Processing of such bid shall be as follows: i) The Bid Manager shall seek written clarifications from the lowest Bidder with approval of the tender accepting authority, including detailed price analyses of its Bid price in relation to scope, schedule, resource mobilization, allocation of risks and responsibilities, and any other requirements of the bids document. ii) If, after evaluating the price analyses, the Tender Accepting Authority determines that the Bidder has substantially failed to demonstrate its capability to deliver the contract at the offered price, then the bid/ proposal may be rejected. iii) Such contracts should be closely monitored that final payments in such cases do not abnormally increases due to extra items. Further, there is no abnormal increase in quantities of the item for which contractors have initially quoted very high rates.
13A		In case the contractor does not carry out the work on items as per schedule or as per NIT specifications, the Engineer-in-charge shall issue a letter to the contractor accordingly. If the contractor is a NIT, the LQ item of the contract shall be cancelled. Also, the contractor shall be liable for the cost of the work. If the contractor does not carry out the work of all items, the work shall be executed through another agency at his risk and cost.
14		i. The bidder, whose tender is accepted, will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank but not co-operative or Gramin Bank, in accordance with the prescribed form, provided confirmatory advice is enclosed. ii. The bidder, whose tender is accepted, will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 10% of the contract amount of the work. iii. In works where condition of submission of Performance Guarantee is not applicable, the security deposit @ 10% of the tendered value shall be deducted.

		iv. The Security deposit (under ii & iii above) will be collected by deductions from the running bills of the contractor at the rates mentioned above ~~and~~ the earnest money deposited at the time of tenders, will be treated as a part of the Security Deposit. v. Security deposit will also be accepted in form of ~~Fixed Deposit Receipts~~ / Guarantee Bonds of any Scheduled Bank but not co-operative or Gramin Bank in accordance with the prescribed form, provided confirmatory advice is enclosed.
15.		On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.
16.		1. Rates to be quoted by the parties should be inclusive of all taxes, duties, CESS, fee, royalty charges etc. levied under any statute but exclusive of GST for all the items. 2. However GST, as applicable, shall be paid to the contractor, for any taxable supply / services / construction rendered by the agency to AAI, against a valid GST invoice as per terms and conditions of the contract. 3. In case supplies /services / works involve imports; the same should be identified separately. Basic Custom Duty & IGST will be paid directly by AAI by utilizing EPCG license / Duty Credit Scrip under service Export from India Scheme (SEIS) of Govt. of India
17.		The contractor/ bidder shall give a list of AAI employees related to him..
18.		The tender for the work shall not be witnessed by a contractor or contractors / bidders who himself / themselves has / have tendered or who may and has / have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.
19.		~~The tender for composite work includes, in addition to building work, all other works such as sanitary and water supply installations drainage installation, electrical work, horticulture work, roads and paths etc. The tenderer apart from being a registered contractor (B&R) of appropriate class, must associate himself with agencies of~~

		appropriate class which are eligible to tender for sanitary and water supply drainage, electrical and horticulture works in the composite tender.
20.		The contractor/ bidder shall submit list of works completed in last 5 years*as well as which are in hand (in progress) in the following format for assessing bidding capacity of the bidders:-

Name of work	Name_____and particulars_____of Office_____where work is being executed	Value of work	Position_____of works_____in progress	Remarks
1	2	3	4	5

21		The contractor/bidder shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Executive Director (Engg.) may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
22		If complete site is available for work, the work shall be completed in the manner specified here in special condition of contract and NIT specifications. Note: In such case para 23 below may be deleted by NIT approving authority
23		~~If complete site is not available for taking up the work, the same shall be made available in phases. The scope of work covered in each phase, time for completion of work in each phase and methodology of taking over completed work in phased manner has been specified under special conditions of contract. The completion time for each phase shall be applicable as indicated in tender documents. The work shall also be taken over by Engineer-In-Charge in phases. The warranty for the works executed in each phase shall be applied independently w.e.f. date of completion /taking over of individual phase.~~ ~~Note: In such case para 22 above may be deleted by NIT approving authority~~

CONDITIONS OF CONTRACT

Definitions :

1.		The contract means the documents forming the tender and acceptance thereof and the formal agreement / agreements executed between the competent authority(s) on behalf of the Chairman, Airports Authority of India and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-Charge and all these documents taken together, shall be deemed to form one contract / ~~two contracts and shall be complimentary to one another.~~ Contractor has to sign two agreements, one consisting BOQ for Civil works and another one for SITC and O&M/ AMC / AICMC part. Engineer-in-charge could be common for both the agreements. Separate invoices for the civil / ~~construction works and SITC / O&M / AICMC / AMC~~ works have to be raised by the agency referring to the respective agreements to facilitate AAI to claim input tax credit on such SITC / O&M / AICMC / AMC works as mentioned in Schedule 'F' para 2(v).
2.		In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-
		i. The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional. ii. The site shall mean the land / or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract. iii. The Contractor / tenderer / bidder shall mean the individual, firm or company whether incorporated or not, Joint Venture / Consortium undertaking the works and shall include the legal personal representative of such individual or the persons constituting such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.

		iv. The Chairman means the Chairman Airports Authority of India and his Successors. v. The Engineer-in-Charge means the Engineering Officer who shall supervise and be incharge of the work and who shall sign the contract on behalf of the Chairman, Airports Authority of India as mentioned in Schedule 'F' hereunder. vi. AAI or Airports Authority of India shall mean the Chairman Airports Authority of India. vii. The terms Member (Planning) means the head of Department of Engineering, Airports Authority of India. viii. Accepting Authority shall mean the authority mentioned in Schedule 'F'. ix. Excepted Risk are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, terrorism, military or usurped power, any acts of Airports Authority of India, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Airports Authority of India of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Airports Authority of India's faulty design of works. x. Market Rate shall be the rate as decided by the Engineer-in-Charge on the basis of the prevailing cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits. Provided that no extra overheads and profits shall be payable on the parts of works assigned to other agency(s) by the contractor as per terms of contract. xi. Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender papers or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued upto the date of receipt of the tender. xii. Department means Airports Authority of India, which invites tender on behalf of Chairman, Airports Authority of India.
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		xiii. Tendered value means the value of the entire work as stipulated in the letter of award. 3
3.	Scope and Performance	Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
4.		Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
5.		The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the tender papers. None of these documents shall be used for any purpose other than that of this contract
6.	Works to be carried out	The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities (Schedule – A) shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.
7.	Sufficiency of Tender	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
8.	Discrepancies and Adjustment of Errors	The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions

8.1		In the case of discrepancy between the Schedule of Quantities, the Specifications and / or the Drawings, the following order of preference shall be observed :-
		i. Description of Schedule of Quantities. ii. Particular/ technical Specification and Special Condition, if any. iii. Drawings. iv. C P W D Specifications. v. Indian Standard Specifications of B I S / IRC Code of Practice / ASTM standards. vi. Sound Engineering practice as directed by the Engineer-in-charge, whose decision in this regard shall final and binding on the contractor
8.2		If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
8.3		Any error in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract
8.4	Payment for similar items with different quoted rates in different subheads of the contract agreement	If the contractor has quoted different rates for the same item appearing in two or more subheads, then the lowest of the rates quoted shall only be considered for payments during execution of work. In case of deviation of quantity of such item, payments shall be made at the lowest quoted rate for quantity executed upto the deviation limit specified in the contract. Beyond the deviation limit the rate shall be derived as per relevant contract provision
9.	Reverse Auction for purchase tenders	~~AAI may opt for reverse auction in case of purchase tender if value of supplies put to tender is more than Rs.2Cr.~~
10.	Signing of Contract	The successful tenderer / contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, shall sign either single or Two agreements , as the case may be, one consisting BOQ for Civil works and another one for SITC and O&M / AMC / AICMC part.
i)		i. The notice inviting tender, all the documents including drawings, if any, forming the tender as

		issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto. ii. Standard AAI Form as mentioned in Schedule 'F' consisting of : i) Various standard clauses with corrections upto the date stipulated in Schedule 'F' along with annexures thereto. ii) AAI Safety Code. iii) Model Rules for the protection of health, sanitary arrangements for workers employed by AAI or its contractors. iv) AAI Contractor's Labour Regulations. v) List of Acts and omissions for which fines can be imposed. iii. No payment for the work done will be made unless contract in form of agreement is signed by the contractor.
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CLAUSES OF CONTRACT

CLAUSE 1

	Performance Guarantee	This clause is applicable for the works for which the estimated cost put to tender is more than Rs.5 crores
		i. The contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the Tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule from the date of issue of award letter. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft or Bank Guarantee (including e-Bank Guarantee) from any of the Scheduled Commercial Banks (i.e. Indian or Foreign Banks included in the Second Schedule of Reserve Bank of India Act, 1934 excluding Co-Operative/Regional Rural Banks) in accordance with the form annexed hereto. (Appendix XI).
		ii. Performance guarantee should be furnished within 30 days of issue of award letter. In case the contractor fails to deposit performance guarantee within the stipulated period, no payment will be released to the contractor for the work done in respect of 1st running account bill. Moreover, interest @ 10% per annum on performance guarantee amount would be levied (non-refundable) for delayed period of submission.
		iii. The Performance Guarantee shall be initially valid upto the stipulated date of completion plus 180 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest. However, in case of contracts involving maintenance of buildings and services / any other work thereafter, 50% of Performance Guarantee shall be retained as Security Deposit as per contract conditions. The same shall be returned on successful completion of commitment year wise proportionately.
		iv. The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the AAI is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

		a. Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer in Charge may claim the full amount of the Performance Guarantee. b. Failure by the contractor to pay the Chairman, AAI any amount due, either as agreed by the contractor or determined under any of the Clauses / Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer in Charge.
		v. In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Chairman, AAI.

CLAUSE 1 A

	Recovery of Security Deposit	The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit AAI at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 5% of the gross amount of each running and final bill till the sum deducted will amount to security deposit of 5% of the tendered value of the work. Such deductions will be made and held by AAI by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in the form of Bank Guarantee (including e-Bank Guarantee) from any of the Commercial Bank (i.e. Indian or Foreign Banks included in the Second Schedule of Reserve Bank of India Act, 1934 excluding Co-Operative/Regional Rural Banks). In case a Guarantee Bonds of any Bank is furnished by the contractor to the AAI as part of the security deposit and the Bank is unable to make payment against the said Guarantee Bond, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the AAI to make good the deficit. In works where condition of submission of performance guarantee is not applicable, the security deposit at the rate of 10% (Ten Percent) of gross amount of each running bill shall be deducted instead of 5%, till the sum will amount to security deposit of 10% of the contract value of work. Other conditions shall remain same as stated above. All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising therefrom, or from any sums which may be due to or may become due to the contractor by AAI on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in Fixed Deposit Receipt, Insurance Surety Bonds, Account Payee Demand Draft or Bank Guarantee from any of the Commercial Bank (if deposited for more than 12 months) endorsed in favour of the Airports Authority of India, any sum or
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		sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills and the final bill of the contractor at the rates mentioned above. The security deposit as deducted above can be released against Bank Guarantee issued by any Commercial Bank (i.e. Indian or Foreign Banks included in the Second Schedule of Reserve Bank of India Act,1934 excluding Co-Operative /Regional Rural Banks), on its accumulations to a minimum of Rs. 5 lakh to the condition amount of such bank guarantee, except last one, shall not be less than Rs. 5 lakh. Note 1: Provided further that the validity of Bank Guarantee shall be in conformity with provisions contained in the clause 17 which shall be extended from time to time depending upon extension of contract under provision of Clause 2 & Clause 5. Note 2: Note 1 above shall be applicable for both clause 1 and 1A.
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Clause 1B

	Additional Performance Security	The Contractor shall submit an irrevocable additional performance security in the form of an irrevocable Insurance Surety bond, demand draft, bank guarantee issued from Schedule Commercial Bank (i.e. Indian or foreign Banks included in the second Schedule of Reserve Bank of India Act,1934 excluding Co-operative / Regional Rural Banks), if the bid offered by the selected bidder is lower than 10% of the estimated cost put to tender. This clause shall be binding and enforceable in relation to all works, irrespective of their nature, scope, or value. Additional performance security amount and treatment - The additional performance security shall be calculated as below- 1. Where the bid price is below 10% but not below 20% of the project cost put to bid, the additional performance security percentage shall be incremented by 0.25% for every percentage of bid price below 10% of the project cost put to bid starting at 11% with the additional bid performance security being 0.25% and this additional performance security percentage shall be applied on the bid price; 2. Where the bid price is below 20% but not below 25% of the project cost put to bid, the additional performance security percentage shall be incremented by 0.50% for every percentage of bid price below 20% of the project cost put to bid starting at 21% with the additional bid performance security being 0.50% and this additional performance security percentage shall be applied on the bid price;
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		3. Where the bid price is below 25% but not below 30% of the project cost put to bid, the additional performance severity performance shall be incremented by 0.75% for every percentage of bid price below 25% of the project cost put to bid starting at 26% with the additional bid performance security being 0.75% and this additional performance security percentage shall be applied on the bid price; 4. Where the bid is below 30%, the additional performance security percentage shall be incremented by 1% for every percentage of bid price below 30% of the project cost put to bid starting at 31% with the additional bid performance security being 1% and this additional performance security percentage shall be applied on the bid price; 5. The additional performance security percentage shall be rounded off to the next lower percentage based on whether the decimal point of the percentage of bid is below 0.5% or next higher percentage based on whether the decimal point of the percentage of bid price is 0.5% or more. All matters pertaining to validity, extension, claims, forfeiture, and any other conditions in relation to the additional performance security shall be governed by the provisions of Clause 1: Performance Security Note: 1. The additional performance guarantee shall be submitted within 30 days of issue of letter of intent in the prescribed format (APPENDIX-XI). 2. The letter of award shall be issued on receipt of additional performance guarantee only, if applicable. 3. In case the contract fails to deposit additional performance guarantee within the stipulated period, tender shall be stand cancelled without any notice. Further the EMD shall be forfeited and contractor shall be liable for debarment upto a period for Two (02) years
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Clause 2

	Compensation for Delay	If the contractor fails to maintain the required progress in terms of clause 5 or to complete the Work and clear the site on or before the contract or justified extended date of completion as per clause 5(excluding any extension under clause 5.5) as well as any extension granted under clause 12 and 15, he shall, without prejudice to any other right or
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		remedy available under the law to the AAI on account of such breach, pay as compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' may decide on the amount of Tendered Value of the work for every completed day/month (as determined) that the progress remains below that specified in Clause 5 or that the work remains incomplete. This will also apply to items or group of items for which a separate period of completion has been specified.
	i) Compensation for delay of work	If the completion of work is delayed due to reasons attributed to contractor, AAI shall be entitled for compensation for delay as detailed below: ~~i For works costing upto Rs. 10.00 Lac:~~ ~~1.0% (one percent) of tendered value per week of delay or lesser amount as decided by the competent authority subject to a maximum of 10% of contract value.~~ ii For the works costing more than Rs 10 Lac 0.5% (half percent) of tendered value per week of delay or lesser amount as decided by the competent authority subject to a maximum of 10% of the tendered value.
		Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the Tendered Value of work or of the Tendered Value of the Sectional part of work as mentioned in schedule 'F' for which a separate period of completion is originally given. In case no compensation has been decided by the authority in Schedule 'F' during the progress of work, this shall be no waiver of right to levy compensation by the said authority if the work remains incomplete on final justified extended date of completion. If the Engineer in Charge decides to give further extension of time allowing performance of work

		beyond the justified extended date, the contractor shall be liable to pay compensation for such extended period. If any variation in amount of contract takes place during such extended period beyond justified extended date and the contractor becomes entitled to additional time under clause 12, the net period for such variation shall be accounted for while deciding the period for levy of compensation. However, during such further extended period beyond the justified extended period, if any delay occurs by events under sub clause 5.2, the contractor shall be liable to pay compensation for such delay. Provided that compensation during the progress of work beyond the justified extended date of completion for delay under this clause shall be for non- achievement of sectional completion or part handing over of work on stipulated / justified extended date for such part work or if delay affects any other works / services. This is without prejudice to right of action by Engineer-in- Charge under clause 3 for delay in performance and claim of compensation under that clause. In case action under clause 2 has not been finalized and the work has been determined under clause 3, the right of action under this clause shall remain post determination of contract but levy of compensation shall be for days the progress is behind the schedule on date of determination, as assessed by the authority in schedule 'F', after due consideration of justified extension. The compensation for delay, if not decided before the determination of contract, shall be decided after of determination of contract. The amount of compensation may be adjusted or set-off against any sum payable to the' Contractor under this or any other contract with AAI. In case, the contractor does not achieve a particular milestone mentioned in schedule F, or the re-scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied as above. Withholding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.
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Clause 2A

	Incentive for early completion	~~In case, the contractor completes the work ahead of stipulated date of completion so provided in 'Schedule F', a bonus @ 1 % (one per cent) of the tendered value per month computed on per day basis, shall be payable to the contractor, subject to a maximum limit of 5% (five per cent) of the tendered value. The amount of bonus, if payable, shall be paid along with final bill after completion of work. Bonus/ Incentive shall be applicable for the contract completed before stipulated dated of completion and shall not be applicable for the contract extended beyond the stipulated period even with justified hindrance and without any action of compensation for delay. This clause shall not be applicable for the works which estimated cost put to tender is less than Rs. 50.00 Cr.~~
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Clause 2B

	Release of withheld amount against compensation for delay.	Withheld amount towards compensation for delay over and above Rs. 50.00 lacs, can be released against Bank Guarantee (on the format given at Appendix-1) or in the form of fixed deposit receipts or guarantee bonds of any Scheduled Bank but not Co-operative or Gramin Bank, pending finalization of case of extension of time by competent authority as per delegation of powers. Concerned Executive Director (Engg) will authorize such action on receipt of proposal from the Engineer-In-Charge through proper channel
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Clause 3

	When Contract can be Determined	Subject to other provisions contained in this clause, the Engineer-in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and / or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases: - If the contractor having been given a notice by the Engineer-in-Charge in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter. - If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and continues to do so after a notice in writing of seven days from the Engineer- in-Charge. - If the contractor fails to complete the work or section of work with individual date of completion on or
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		before the stipulated or justified extended date on or before such date of completion, and the Engineer in Charge without any prejudice to any other right or remedy under any other provision in the contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment making such time essence of contract and in the opinion of Engineer in Charge, the contractor will be unable to complete the same or does not complete the same within the period specified. iv. If the contractor persistently neglects to carry out his obligations under the contract and / or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge. v. If the contractor shall offer or give or agree to give to any person in AAI service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for AAI. vi. If the contractor shall enter into a contract with Airports Authority of India in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-charge. vii. If the contractor shall obtain a contract with AAI as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits any breach of Integrity Pact. viii. If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or
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		composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors. ix. If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order. x. If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days. xi. If the contractor assigns (excluding part(s) of work assigned to other agency(s) by the contractor as per terms of contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer-in-Charge. When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the Chairman, AAI shall have powers : a) To determine the contract as aforesaid so far as performance of work by the Contractor of work is concerned (of which determination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit, Security Deposit already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the AAI. b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor or any other means to complete the work. The contractor, whose contract is determined as above, shall not be allowed to
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		participate in the tendering process for the balance work. In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified
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CLAUSE 3 A

		In case, the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Earnest Money Deposit and the Performance Guarantee of the contractor shall be refunded within 30 days. Neither party shall claim any compensation for such eventuality. This clause is not applicable for any breach of the contract by either party.
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CLAUSE 3 B

		Debarment of Contractor ~~i. Contractor may be debarred if it is determined under breached the Integrity Pact of clause 41(a) and Code of Integrity of clause 41(b).~~ ii. Contractor can also be debarred for the reasons like supply of sub-standard material, non-supply of material, abandonment of work, sub-standard quality of work, poor/unsatisfactory performance. iii. The period of debarment shall be upto two years
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CLAUSE 4

	Contractor liable to pay compensati	In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause-3 thereof, shall have become exercisable and the same are not exercised, the non-exercise
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	on even if action not taken under Clause-3	thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/ or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorised agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor
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CLAUSE 5

	Time and Extension for Delay	The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in schedule 'F' or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, AAI shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money & performance guarantee absolutely
5.1		After the Contract is awarded, within 15 days, the Contractor shall submit a Time and Progress Chart for

		each mile stone and get it approved by the Engineer-in-charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile stones given in Schedule 'F'. Project Management shall be done. - For works costing upto Rs. 5.00 Cr. -- CPM/ PERT Chart - Works costing more than Rs. 5.00 Cr. -- By using Project Management Software like Primavera / MS Project or any other software with the approval of Engineer-in-charge. - Contractor shall submit monthly progress reports (2 copies) highlighting status of various activities and physical completion of work PROGRAMME CHART - The Contractor shall prepare an integrated programme chart in Project Management Software for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the programme within the stipulated period or earlier and submit the same for approval to the Engineer-in- Charge within fifteen days of award of the contract. A recovery of Rs. 2500/- (for works costing upto Rs. 5.00 Crores) / Rs. 5000/- (for works costing more than Rs. 5.00 Crores) shall be made on per day basis in case of delay in submission of the above programme. - The programme chart should include the following: - Descriptive note explaining sequence of the various activities. - Network (PERT / CPM / BAR CHART). - Programme for procurement of materials by the contractor. Programme for deployment of machinery /
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		equipment's having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor. In addition to above, to achieve the progress of work as per programme, the contractor must bring at site adequate shuttering material required for cement concrete and R.C.C. works etc. for three floors within one month from the date of start of work till the completion of RCC work as per requirement of work. The contractor shall submit shuttering schedule adequate to complete structure work within laid down physical milestone. iii. If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved programme referred above or after rescheduling of milestones, the contractor shall produce a revised programme within 7 (seven) days, showing the modifications to the approved programme to ensure timely completion of the work. The modified schedule of programme shall be approved by the Engineer in Charge. A recovery of Rs. 2500/- (for works costing upto Rs.5.00 Crores) / Rs. 5000/- (for works costing more than Rs.5.00 Crores) shall be made on per day basis in case of delay in submission of the modified programme. iv. The submission for approval by the Engineer-in-Charge of such programme or such particulars shall not relieve the contractor of any of the duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement. v. The contractor shall submit the progress report using MS Project / Primavera software with base line programme referred above for the work done during previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery Rs. 2500/ - (for works costing upto Rs.5.00 Crores) / Rs. 5000/- (for works costing more than Rs.5.00 Crores) shall be made on per day basis in case of delay in submission of the monthly progress report.
5.2		If the work(s) be delayed by:- - Force majeure, or an act of terrorism - Abnormally bad weather, or - Serious loss or damage by fire, or

		iv. Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or v. Delay on the part of other contractors or tradesmen engaged by Engineer- in- Charge for executing work not forming part of the Contract, or vi. Non-availability of stores, which are the responsibility of AAI to supply or vii. Non-availability or break down of tools and Plant to be supplied or supplied by AAI or viii. Any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor's control. then upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-charge to proceed with the works. All correspondence with the agency and concerned stakeholders during execution of works will be taken into consideration for evaluation of hindrances causing delay, for grant of extension of time by the Competent Authority
5.3		Request for rescheduling of Milestones and extension of time, to be eligible for consideration, shall be made by the contractor in writing within fourteen days of the happening of the event causing delay on the prescribed form to the authority indicated in schedule 'F'. The contractor may also, if practicable, indicate in such a request the period for which extension is desired.
5.4		In any such case the Engineer-in-Charge with the approval of authority indicated in Schedule 'F' may give a fair and reasonable extension of time and reschedule the Milestones for completion of work. Such extension or re-scheduling of the milestone shall be communicated to the contractor by the Engineer-in-charge in writing, within 1 month or 4 weeks of the date of receipt of such request respectively. Non-application by the contractor for extension of time / rescheduling of milestones shall not be a bar for giving a fair and reasonable extension / re-scheduling of milestones by the Engineer-in-charge with the approval of authority indicated in schedule 'F' and this shall be binding on the contractor

CLAUSE 6

	Measurements of Work Done	Engineer-in-charge shall, except as otherwise provided, ascertain and determine by measurement, the value in accordance with the contract of work done. All measurement of all items having financial value shall be entered in Measurement Book and/or level field book so that a complete record is obtained of all work performed under the contract. All measurements and levels shall be taken and by the Engineer-in-Charge or his authorised representative and by the contractor or his authorised representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties. If for any reason the contractor or his authorised representative is not available and the work of recording measurements is suspended by the Engineer-in-Charge or his representative, the Engineer-in-Charge and the Department shall not entertain any claim from contractor for any loss or damages on his account. If the contractor or his authorised representative does not remain present at the time of such measurement after the contractor or his authorised representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, the said measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor. The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels. Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specification notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available, then a mutually agreed method shall be followed.
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		~~The contractor shall give, not less than seven days' notice to the Engineer-in-Charge or his authorised Representative of the work, before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorised representative of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing, the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed. Engineer-in-Charge or his authorised representative may cause either themselves or through another officer of the department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.~~ ~~It is also a term of this contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period~~
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Clause 6 A

	Computerised Measurement Book	Computerized measurement is mandatory for works costing more than Rs 5.00 Lacs. However in case of works costing lesser than Rs. 5.00 Lacs Engineer-in- Charge may decide for adopting computerized measurement if required, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract. All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department so that a
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		complete record is obtained of all the items of works performed under the contract
		All such measurements and levels recorded by the contractor or his authorised representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his authorised representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorised representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in-Charge for the dated signatures by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance. Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Engineer-in-Charge and/or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in-Charge and/or his authorised representative would thereafter check this MB, and record the necessary certificates for their checks / test checks. The final, fair, computerized measurement book given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or overwriting in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department. Thereafter, the MB shall be taken in the records of Engineer-in-charge, and allotted a number as per the Register of Computerized MBs. This should be done before the corresponding bill is submitted to the Engineer-in-charge for payment. The contractor shall submit two spare copies of such computerized MB's for the purpose of reference and record by the various officers of the department. The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these

		measurements, duly bound, and its pages machine numbered along with two spare copies of the "bill. Thereafter, this bill will be processed by the Engineer-in-charge and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements. The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements / levels by the Engineer-in-charge or his representative. Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of item which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed. The contractor shall give not less than seven days' notice to the Engineer-in- Charge or his authorized representative of the work before covering up or otherwise placing beyond the reach of checking and / or test checking the measurement of any work in order that the same be checked and / or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and / or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-charge or his authorized representative of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and / or test checking measurements without such notice having been given or the Engineer-in charge's consent being obtained in writing the same shall be uncovered at the contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.
		Engineer-in-charge or his authorised representative may cause either themselves or through another officer of the department to check the measurements recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or

		levels. It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period
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CLAUSE 7

	Payment on Intermediate Certificate to be regarded as Advances	No payment shall be made for work, estimated to cost Rs. One lac or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. One lac, the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements in the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, Engineer-in- Charge shall prepare or cause to be prepared such bills in which event no claims whatsoever due to delays on payment including that of interest, shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-inCharge. An amount of ad-hoc payment not less than 75% of the net amount of the bill under check, shall be made within 10 working days of submission of the bill by the Contractor to the Engineer-in-Charge or his Authorized Engineer together with the account of the material issued by the department, or dismantled materials, if any. The remaining payment is also to be made after final checking of the bill within 28 working days of submission of bill by the contractor. In case of delay in payment of intermediate bills after 30 days of submission of bill by the contractor, provided the bill submitted by the contractor found to be in order, a simple interest @ prevailing rate of interest of General Provident Fund shall be paid to the contractor from the date of expiry of prescribed time limit. All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the
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		requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract. Pending consideration or extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority. The Engineer-in-Charge in his sole discretion on the basis of a certificate from the Asstt Manager / Manager (Engg) to the effect that the work has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill(s) to be submitted by the contractor within 10 days of the interim payment. In case of delay in submission of bill by the contractor a simple interest @ 10% (percent) per annum on the advance payment made shall be paid to the AAI from the date of expiry of prescribed 10 days
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CLAUSE 7A

		No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge
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CLAUSE 8

	Completion Certificate and Completion Plans	Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for
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		which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete for 'Civil Construction Works' until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangement as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in- charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof. a. For electrical and mechanical capital works: The contractor shall remove the rubbish from the site. Following conditions must be met before recording completion certificate : Submits completion plan, maintenance manual, manufactures catalogue and gives performance test for system. b. For repair works: The performance of the repaired system has been tested and found satisfactory. c. For AMC work: The system has been tested for its performance / completeness and taken over by AAI / next agency for operation and maintenance
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CLAUSE 8 A

	Contractor to keep site clean	When the annual repairs and maintenance of works are carried out, the splashes and droppings from white washing colour washing, painting etc., on walls, floor, windows etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. Where
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		the work is done without waiting for the actual completion of all the other items of work in the contract, in case the contractor fails to comply with the requirements of this clause, the Engineer-in-charge shall have the right to get this work done at the cost of the contractor either departmentally or through any other agency. Before taking such action, the Engineer-in-charge shall give ten days notice in writing to the contractor.
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CLAUSE 8 B

	Completion Plans to be Submitted by the Contractor	The contractor shall submit completion plan as required vide General Specifications for Electrical works (Part-I internal) 2013 and (Part -II External) 1994 or latest available specifications, as applicable within thirty days of the completion of the work. The contractor shall submit completion plan for building works, all services, and obtain occupancy certificate from local bodies on the basis of completion drawings within a period of 30 days from the date of completion. The contractor shall also submit catalogues of all equipment's and maintenance manual for the complete E & M systems. If contractor fails to submit completion plans of all works, he shall be liable to pay compensation @ 0.5% of the tendered value of works costing up to Rs. 5 Crores subject to maximum of Rs. 1.00 Lac and 0.25% for works costing more than Rs. 5 crores subject to maximum of Rs. 1.5.Lac. The decision of Project-in-charge in this regard shall be final and binding on the contractor
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CLAUSE 9

	Payment of final bill	The corrected final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-incharge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and for those items which are in dispute on account of quantity and/ or rates shall be paid at approved quantity and/ or rates by the Engineer-in-charge, within three months period reckoned from the date of receipt of the bill by the Engineer in- Charge or his authorized representative, complete with account of materials issued by the Department and dismantled materials. If the final bill is submitted by the contractor within the period specified above and payment of final bills is made by the AAI within above prescribed time limit, if delay in payment, a simple interest @ prevailing rate of interest of General Provident Fund shall
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		be paid to the contractor from the date of expiry of prescribed time limit, provided the final bill submitted by the contractor is found to be in order. The Final bill shall be prepared for all the bidders for all tendered items (excluding Extra Items based on market rate) and the payment shall be restricted up to lowest of the bidder.
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CLAUSE 9 A

	Payment of contractor's bills to Banks	Payments due to the contractor and refund of various nature may, if so desired by him and wherever possible in banks be made through electronic payment mechanism instead of direct to him, provided that the contractor furnishes to the Engineer-in- Charge. i. Informations as per proforma attached. ii. An authorization in the form of a legally valid document such as power of attorney conferring authority on the bank to receive payments and iii. His own acceptance of the correctness of the amount made out as being due to him by Authority or his signature on the bill or other claim preferred against Authority before settlement by the Engineer-in-charge of the account or claim by payment to the bank. While the receipt given by such banks shall constitute a full and sufficient discharge for the payment, the contractor shall whenever possible present his bills duly receipted and discharged through his bank. Nothing herein contained shall operate to create in favour of the bank any rights or equities vis-à-vis the Airports Authority of India
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CLAUSE 10

	Materials supplied by Authority	~~Materials which Authority will supply are shown in Schedule 'B' which also stipulates quantum, place of issue and rate(s) to be charged in respect thereof. The contractor shall be bound to receive them from the Engineer-in-charge. As soon as the work is awarded the contractor shall finalize the programme for the completion of work as per clause 5 of this contract and shall give his estimates of materials required on the basis of drawings/ or schedule of quantities of the work. The contractor shall give in writing his requirement to the Engineer-in-charge, which shall be issued to him keeping in view the progress of work as assessed by the Engineer-in- Charge in accordance with the agreed phased programme of work indicating monthly requirements of various materials. The contractor shall~~
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		place his indent in writing for issue of such materials at least 7 days in advance of his requirement. Such materials shall be supplied for the purpose of the contract only and the value of the materials so supplied at the rates specified in the aforesaid schedule shall be set off or deducted, as and when materials are consumed in items of work (including normal wastage) for which payment is being made to the contractor, from any sum then due or which may therefore become due to the contractor under the contract or otherwise or from any security deposit. At the time of submission of bills, the contractor shall certify that balance of materials supplied is available at site in original good condition. The contractor shall submit along with every running bill (or account or interim bill) material-wise reconciliation statement supported by complete calculations reconciling total issued, total consumption and certified balance (diameter / section wise in the case of steel) and resulting variations and reasons thereof. Engineer-in-charge shall (whose decision shall be final and binding on the contractor) with his rights to follow the procedure of recovery in clause 42 at any stage of the work if reconciliation is not found to be satisfactory. The contractor shall bear the cost of getting the material issued, loading, transporting, unloading, storing under cover as required, cutting, assembling and joining the several parts together as necessary. Notwithstanding anything to the contrary contained in any other clause of the contract and all stores / materials so supplied to the contractor or procured with assistance of the AAI shall remain the absolute property of Authority and the contractor shall be the trustee of the stores / materials, and the said stores / materials shall not be removed / disposed off from the site of the work on any account and shall be at all times open to inspection by the Engineer-in-charge or his authorised representative. Stores / materials remaining unused shall be returned to the Engineer-in-charge in as good a condition in which they were originally supplied at a place directed by him, at a place of issue or any other place specified by him as he shall require, but in case it is decided not to take back the stores / materials the contractor shall have no claim for compensation on any account of such stores / materials so supplied to him as aforesaid and not used by him or for any wastage in or damage to in such stores / materials. On being required to return the stores / materials, the contractor shall hand over the stores /
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		materials on being paid or credited such price as the Engineer-in-charge shall determine, having due regard to the condition of the stores / materials. The price allowed for credit to the contractor, however, shall be at the prevailing market rate not exceeding the amount charged to him, excluding the storage charge, if any. The decision of the Engineer-in-charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to throwing himself open to account for contravention of the terms of the licenses or permit and / or for criminal breach of trust, be liable to Authority for all advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach. Provided that the contractor shall in no case be entitled to any compensation or damages on account of any delay in supply or non-supply thereof all or any such materials and stores provided further that the contractor shall be bound to execute the entire work if the materials are supplied by the Authority within the original scheduled time for completion of the work plus 50% thereof or schedule time plus 6 months whichever is more if the time of completion of work exceeds 12 months, but if a part of the materials only has been supplied within the aforesaid period, then the contractor shall be bound to do so much of the work as may be possible with the materials and stores supplied in the aforesaid period. For the completion of the rest of the work, the contractor shall be entitled to such extension of time as may be determined by the Engineer-in-charge whose decision in this regard shall be final and binding on the contractor. The contractor shall see that only the required quantities of materials are got issued. Any such material remaining unused and in perfectly good / original condition at the time of completion or determination of the contract shall be returned to the Engineer-in-charge at the stores from which it was issued or at a place directed by him by a notice in writing. The contractor shall not be entitled for loading transporting, unloading and stacking of such unused material except for the extra lead, if any involved, beyond the original place of issue
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CLAUSE 10 A

	Materials to be provided by the contractor	1. The contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Authority. 2. The contractor shall, at his own expense and without delay; supply to the Engineer in- charge samples of
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	and Mandatory Tests	materials to be used on the work and shall get these approved in advance. All such materials to be provided by the contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-charge furnish proof, to the satisfaction of the Engineer-in-charge that the materials so comply. The Engineer-in-charge shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-in charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-charge shall be issued after the test results are received. 3. The contractor shall at his cost submit the samples of materials to be tested or analyzed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-charge. 4. ~~If any additional tests apart from mandatory tests specified in the contract are required to be carried out at the instance of AAI or any other advisory body, to ensure conformity of the item to the contract specifications, the cost of such tests shall be borne by AAI. In case the material / equipment fails in the above tests, the expenditure incurred by AAI on testing of such material or equipment along with incidental charges borne by AAI (if any) shall be recovered from the dues of the contractor and action shall be taken under Clause 16 and other relevant clauses of the contract.~~ 5. The contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials. 6. The contractor shall, at his cost, make all arrangements and shall provide all facilities as the Engineer-in-charge may require for collecting and preparing the required number of samples for such tests at such time and to
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		such place or places as may be directed by the Engineer-in-charge and bear all charges including testing charges. The Engineer-in-charge or his authorised representative shall always have access to the works and to all workshops and places where work is being prepared or from where materials manufactured, articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access. 7. The Engineer-in-charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-charge may cause the same to be supplied and all costs which may be attracted for such removal and substitution shall be borne by the Contractor. 8. The contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in Schedule F. ~~9. Details in respect of all mandatory tests shall be maintained in the desired format and attached with each Running Account Bill.~~
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CLAUSE 10 B

(1)	Secured Advance on materials	1. The Contractor, on signing an indenture form specified in Appendix-XX, shall be entitled to be paid during the progress of the execution of the work upto 75% of the assessed value of any materials which are in the opinion of the Engineer-in-charge nonperishable, nonfragile and noncombustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/ or protected against damage by weather or other causes but which have not at time of advance been incorporated in the works. When materials on account of which an
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		advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered/ deducted from the next payment made under any of the clause or clauses of this contract. Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer-in-charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel. ~~The secured advance shall also be payable against items brought at site for use in electrical and mechanical systems. Such secured advance shall be paid on submission of Collateral Bank Guarantee submitted by the vendor against the payment in case equipment / system fails to perform on testing and commissioning. Normally secured advance is paid up to 75% of the assessed value of items but in any case it shall not exceed 80% of cost of items indicated for supply of equipment~~
(II)	Mobilisation Advance	Mobilization advances not exceeding 10% of the tendered value may be given, if requested by the contractor in writing within six months of the order to commence the work. Such advance shall be released in two or more installments to be determined by the Engineer-in-Charge at his sole discretion. The first instalment of such advance shall be released by the Engineer-in-charge to the contractor on a request made by the contractor to the Engineerin-Charge in this behalf. The second and subsequent instalments shall be released by the Engineer-in-Charge only after the contractor furnishes a proof of the satisfactory utilization of the earlier instalment(s) to the satisfaction of the Engineer-in-Charge. Before any instalment of advance is released, the contractor shall execute Bank Guarantee Bonds not more than 6 (six) in number from commercial Bank for the amount equal to 110% of the amount of advance and valid for the period till recovery of advance. This (Bank Guarantee from commercial Bank on prescribed format for the amount equal to 110% of the balance amount of advance) shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery

	Interest on Mobilisation advance	The mobilization advance bear simple interest at the rate as mentioned in Schedule-F per annum and shall be calculated from the date of payment to the date of recovery, both days inclusive, on the outstanding amount of advance.
	Recovery of Mobilisation advance	Recovery of such sums advanced shall be made by the deduction from the contractor's bills commencing after first ten percent of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered by the time eighty percent of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of recovery of the installment. If the circumstances are considered reasonable by the Engineer-in-Charge, the period mentioned for request by the contractor in writing for grant of mobilization advance may be extended at the discretion of the Engineer-in-Charge.

CLAUSE 10 C

	Payment on Account of Increase in Prices/ Wages due to Statutory Order(s)	If after submission of tender, if the price of any material incorporated in the work and/ or wages of labour increases as a direct result of the coming into force of any fresh, law or statutory rule or order (but not due to any variation of rate in GST applicable on such material(s) being considered under this clause) beyond the prices/wages prevailing at the time of the last stipulated date of receipt of tenders including extensions, if any, for the work during contract period including the justified period extended under the provisions of Clause 5 of the contract without any action under Clause 2, then the amount of the contract shall accordingly be varied. If after submission of the tender, the price of any material incorporated in the works and/or wages of labour as prevailing at the time of last stipulated date of receipt of tender including extensions, if any, is decreased as a direct result of the coming into force of any fresh law or statutory rules or order (but not due to any variation of rate in GST applicable on such material(s) being considered under this clause), Authority shall in respect of materials incorporated in the works and/or labour engaged on the execution of the work after the date of coming into force of such law, statutory rule or order be entitled to deduct from the dues of the contractor, such amount as shall be equivalent to the difference between the prices of the materials and/or wages as prevailed at the time of the last stipulated date for receipt of tenders including extensions if any, for the work and the prices of materials and/or wages of labour on the coming into force of such law, statutory rule or order. This will be applicable for the contract period including the justified period extended under the provisions of Clause 5 of the contract without any action under Clause 2. Engineer-in-charge shall call books of account and other relevant
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		documents from the contractor to satisfy himself about reasonability of increase in prices of materials and wages. The contractor shall, within a reasonable time of his becoming aware of any alteration in the price of any such materials and/ or wages of labour, give notice thereof to the Engineer-in-charge stating that the same is given pursuant to this condition together with all information relating thereto which he may be in position to supply. For this purpose, the labour component of 85% of the value of the work executed during period under consideration shall not exceed the percentage as specified in Schedule F, and the increase I decrease in labour shall be considered on the minimum daily wages in rupees of any unskilled mazdoor, fixed under any law, statutory rule or order. The cost of work for which escalation applicable is same as cost of work done shall be worked out as below: (a) Gross value of work done up to this quarter: (A) (b) Gross value of work done up to the last quarter: (B) (c) Gross value of work done since previous quarter (C)= (A-B) (d) Full assessed value of Secured Advance fresh paid in this quarter: (D) (e) Full assessed value of Secured Advance recovered in this quarter: (E) (f) Full assessed value of Secured Advance for which escalation Payable in this quarter, (F)= (D-E) (g) Advance payment made during this quarter: (G) (h) Advance payment recovered during this quarter: (H) (i) Advance payment for which escalation is payable in this Quarter (I)= (G-H) (j) Amount paid based on prevailing market rates due to deviations/variations as per Clause 12 during this quarter:(J) Then, $M = C-F+I-J$ $N=0.85M$ (k) Less cost of services rendered at fixed charges as per Clause 34 and recovered during the quarter (L) (l) Less cost of Engineering Consultancy Services rendered at fixed charges as per BOQ and paid during the quarter (X). Cost of work for which escalation is applicable $W=N-(L+X)$ Provided always that: (a) Where provisions of clause 10C are applicable, provisions of clause 10 CC will not be applicable and; (b) Where provisions of clause 10 CC are applicable, provisions of clause 10C will not be applicable.
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CLAUSE 10 CA

	Payment due to variation	~~If after submission of the tender, the price of materials specified in Schedule F increases/ decreases beyond the~~
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	in prices of materials after receipt of tender	base price(s) as indicated in schedule F for the work, then the amount of the contract shall accordingly be varied and provided further that any such variations shall be effected for stipulated period of contract including the stipulated period extended under the provisions of clause 2 of the contract without any action under Clause 2. However for work done/ during the stipulated period extended as above, it will be limited to increase prevailing at the time of updated stipulated date of completion considering the effect of extra work. Extra cost to be calculated on pro-rata basis only as follows: Extra work X stipulated period / tendered cost). The increase / decrease in prices of cement, steel reinforcement, structural steel, and POL shall be determined by the Price indices issued by the Director General, CPWD. For other items provided in the Schedule 'F', this shall be determined with All India Wholesale Price Indices of materials published by Economic Advisor to Government of India, Ministry of Commerce and Industry. Base price for cement, steel reinforcement, structural steel and POL shall be as issued under authority of Director General, CPWD applicable for Delhi including Noida, Gurgaon, Faridkot and Ghaziabad and for other places as issued under the authority of Zonal Chief Engineer, CPWD. Base price of other materials issued by concerned Zonal Chief Engineer and as indicated in Schedule 'F'. If the price index of a particular material is not issued by the Ministry of Commerce and Industry then the price of the most similar material as indicated in Schedule 'F' shall be followed. The amount of the contract shall accordingly be varied for all such materials worked as per the formula given below for individual material: Amount for component of individual material. $V = P \times \frac{C10 - C10}{C10}$ where, V = Variation in material cost i.e. increase or decrease in the amount in rupees to be paid or recovered P = Base price of material as issued under authority of DG, CPWD or concerned Zonal Chief Engineer CPWD and as indicated in Schedule 'F'.
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	For Projects and original works ~~Q = Quantity of material brought at site for bona fide use in the works since previous bill excluding any such quantity consumed in the deviated quantity of item beyond deviation limit and extra/substituted item, paid to be paid at rates derived on the basis of market rates under clause 12.2~~ For maintenance works ~~Q = Quantity of material brought at site for bona fide use in the works since previous bill including such quantity consumed in the deviated quantity beyond deviation limit paid at tendered rates and extra/substituted item being scheduled items, but excluding nonscheduled extra/substituted item paid/to be paid at market rates under clause 12.2~~ ~~CI0 = Price index for cement, steel reinforcement bars, structural steel and POL issued by the DG, CPWD and corresponding to the time of base price of respective material indicated in schedule 'F' For other items, if any provided in schedule 'F' All India Wholesale Price Index for the materials published by the Economic Advisor to Government of India, Ministry of Industry and Commerce and corresponding to the time of base price of respective material indicated in schedule 'F'.~~ ~~CI = Price index for cement, steel reinforcement bars, structural steel and POL issued under the authority of DG, CPWD for the period under consideration. For other items, if any, provided in schedule 'F' All India Wholesale Price Index for the materials for the period under consideration as published by the Economic Advisor to Government of India, Ministry of Industry and Commerce.~~ ~~If actual price of material is less than base price and CI0 then, this clause shall not be applicable.~~ ~~Note:~~ ~~i. In respect of justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of updated stipulated date of completion considering the effect of extra work (extra time to be calculated on prorata basis only as cost of extra work X stipulated period/ tendered cost) shall~~
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		be considered. Provided always that provisions of the preceding Clause 10C shall not be applicable in respect of materials covered in this Clause. ii. If during progress of work or at the time of completion of work, it is noticed that any material brought at site is in excess of requirement, then amount of escalation if paid earlier on such excess quantity of material shall be recovered on the basis of cost indices as applied at time of payment of escalation or as prevailing at the time of effecting recovery, whichever is higher. iii. Cement mentioned wherever in this clause includes cement component used in RMC brought at site from outside approved RMC plants, if any. iv. The date wise record of ready mix concrete shall be kept in a register and cement consumption for the same shall be calculated accordingly. If built-up steel items are brought at site from workshop, then the variation shall be paid for structural steel up to the period when the built-up item/finished product is brought at site
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Clause 10CC

	Price adjustment for works	If the prices of materials and/or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the condition that such compensation for escalation subject to the condition that such compensation for escalation in prices and wages shall be available only for the work done during the stipulated period of the contract including the justified period extended under the provisions of Clause 5 of the contract without any action under Clause 2. Such compensation for escalation in the prices of materials and labour, when due shall be worked out based on the following provisions: (i) The base date for working out such escalation shall be the last stipulated date of receipt of tenders including extension, if any. (ii) The cost of work on which escalation will be payable shall be reckoned as below: (a) Gross value of work done up to this quarter: (A)
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		(b) Gross value of work done up to the last quarter: (B) (c) Gross value of work done since previous quarter (C)= (A-B) (d) Full assessed value of Secured Advance fresh paid in this quarter: (D) (e) Full assessed value of Secured Advance recovered in this quarter: (E) (f) Full assessed value of Secured Advance for which Escalation Payable in this quarter, (F)= (D-E) (g) Advance payment made during this quarter: (G) (h) Advance payment recovered during this quarter: (H) (i) Advance payment for which escalation is payable in this Quarter (I)= (G-H) (j) Amount paid based on prevailing market rates due to deviations/variations as per Clause 1 during this quarter: (J) Then, $M = C + F + I + J$ $N = 0.85 M$ (k) Less cost of services rendered at fixed charges as per Clause 34 and recovered during the quarter (K) (l) Less cost of Engineering Consultancy Services rendered at fixed charges as per BOC paid during the quarter (X). Cost of work for which escalation is applicable $W = N - (L + X)$ *Cost of Design and Engineering shall be treated as civil work for EPC contract.
		Components for material, labour, etc. shall be pre-determined for every work and incorporated in the conditions of contract attached to the tender document provided in Schedule 'F'. The decision of the Engineer in Charge in working out such percentage shall be binding on the contractor. (iii) The following principles shall be followed while working out the payment/recovery on account of variation of prices of materials and/ or wages of labour. (a) The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months or the said quarter. The date of submission of bill finally by the contractor to the department shall be the guiding factor to decide the bills relevant to the quarterly interval. The first such payment shall be made at the end of three months after the month (excluding the month in which the work order issued) and thereafter at three months' interval. At the time of completion of the work, the last period for payment might become less than 3 months, depending on the actual date of completion.

(b) The indices as defined below (excluding LI) relevant to any quarter/period for which such compensation is to be paid shall be the arithmetical average of the indices relevant to the three calendar months. If the period up to the date of compensation after the quarter covered by the last instalment of payment, is less than three months, the index shall be the average of the indices for the months falling within that period.

(c) The minimum wage of an unskilled worker shall be the higher of the wage notified by Government of India, Ministry of Labour and that notified by the local administration both relevant to the place of work and the period of reckoning.

(d) The escalation for labour also shall be paid at the same quarterly intervals when escalation due to increase in cost of materials is paid under this clause. Such revision of minimum wages takes place during any such quarterly intervals, the escalation compensation shall be payable at revised rates only for work done in subsequent quarters;

(e) Irrespective of variations in minimum wages of any category of labour, for the purpose of this clause, the variation in the rate for an unskilled worker shall form the basis for working out the escalation compensation payable on the labour component.

(iv) In the event the price of materials and/or wages of labour required for execution of work decreases, there shall be a downward adjustment in the cost of work so that such price of materials and wages of labour shall be deductible from the cost of work under the contract and in this regard the formula herein stated shall apply and under this Clause IOCC shall mutatis mutandis apply.

(v) The cost price shall be adjusted for increase or decrease in rate of wages of labour, cement, steel reinforcement bar, fuel and kerosene and other input materials as per percentage of material and labour specified in schedule F and in accordance with the principles, procedures and formulae specified below:

(a) Price adjustment for change in cost shall be paid in accordance with the following formulae:

(i) **For Construction:**

$$VW = W * (1/100) * [Cp * (Ci - Co)/Co + Lp * (Li - Lo)/Lo + CMp * (CMi - CMo)/CMo + EMP * (EMi - EMo)/EMo + Fp * (Fi - Fo)/Fo + Sp * (Si - So)/So + Bp * (Bi - Bo)/Bo]$$

(ii) **For Maintenance:**

$$VW = W * (1/100) * [Lp * (Li - Lo)/Lo + CMp * (CMi - CMo)/CMo + EMP * (EMi - EMo)/EMo + Bp * (Bi - Bo)/Bo]$$

Where, W=cost of work done as per para (ii) above.

		Vw (Variation of cost of Work) = Increase or decrease in the cost of works during the period under consideration due to change in the rates for relevant components. Percentage components of materials & labour as specified in the schedule F are defined as under:— Cp—Cement component, Lp—Labour component, CMP—Civil component of other construction materials EMP—E & M i/c IT and AS component of construction materials Fp—POL (Diesel) component Sp—Reinforcement steel bars/TMT bars/structural steel (including strands and cables) component Bp—Bitumen Component Indices for various components of materials & labour to be used for the purpose of this Clause are defined as under:— Co—Wholesale Price Index for Portland Cement published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of last date of receipt of tender including extension, if any. C_i—Wholesale Price Index for Portland Cement published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration. Lo—Minimum daily wage/compensation of an unskilled adult mazdoor, fixed under any law, statutory order or order as on the last date of receipt of tender including extension, if any. L_r—Minimum wage/compensation of an unskilled adult mazdoor, fixed under any law, statutory order or order as applicable on the last date of the quarter preceding the period under consideration. CMo—Price Index for civil components of other construction materials for the month of the last date of receipt of tender including extension, if any, as published by AAI. CM_i—Price Index for civil components of other construction materials for the period under consideration, as published by AAI. EM—Price Index for E & M components of construction materials valid for the month of the last date of receipt of tender including extension, if any, as published by AAI. E_r—Price Index for E & M components of construction materials for the period under consideration, as published by AAI. Fp—Wholesale Price Index of HSD (High Speed Diesel) published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any. F_r—Wholesale Price Index of HSD (High Speed Diesel) published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration.
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		~~So= Wholesale Price Index of Mild Steel long products published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any.~~ ~~S_i= Wholesale Price Index of Mild Steel long products published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration.~~ ~~Bo= Wholesale Price Index of Bitumen published by office of the Economic Adviser, Ministry of Industry & Commerce valid for the month of the last date of receipt of tender including extension, if any~~ ~~B_i= Wholesale Price Index of Bitumen published by office of the Economic Adviser, Ministry of Industry & Commerce for the period under consideration.~~
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CLAUSE 10 D

	Dismantled Material AAI Property	The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work etc. as property of AAI and such materials shall be disposed of to the best advantage of Authority according to the instructions in writing issued by the Engineer-in-charge
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CLAUSE 11

	Work to be executed in accordance with specifications , drawings, orders etc.	The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect to the work signed by the Engineer in charge and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard specifications of Central Public Works Department specified in Schedule F or in any Bureau of Indian Standard or any other published standard or code or Schedule of Rates or any other printed publication referred to elsewhere in the contract. The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the
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		contract. The contractor shall take full responsibility for adequacy suitability and safety of all the works and methods of construction.
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CLAUSE 12

	Deviations/ variations extent and pricing	The engineer-in-charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineering- charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided
12.1		The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value being ordered, be extended, if requested by the contractor, as follows: i. In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus ii. 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the engineer-in-charge
12.2	Deviation, Extra Items and Pricing	In the case of extra item(s) (items that are completely new, and in addition to the items contained in the contract) the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Engineer-in-charge shall within Six weeks of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.
	Deviation,	In the case of substituted items (items that are taken up

	substituted items pricing	with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para. (i) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted). (ii) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
	Deviation, Deviated Quantities, Pricing	In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined
12.3		The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates

12.4		The contractor shall send to the Engineer-in-Charge once every three months, an upto date account giving complete details of all claims for additional payments to which the contractor may consider himself entitled and of all additional work ordered by the Engineer-in-Charge, which he has executed during the preceding quarter failing which the contractor shall be deemed to have waived his right. However, the Executive Director Engineering may authorize consideration of such claims on merits.
12.5		For the purpose of operation of Schedule F, the following works shall be treated as works relating to foundation unless & otherwise defined in the contract: i. For Buildings: All works up to 1.2 meters above ground level or up to floor 1 level whichever is lower. ii. For abutments, piers and well staining: All works up to 1.2 m above the bed level. iii. For retaining walls, wing walls, compound walls, chimneys, overhead reservoirs/tanks and other elevated structures: All works up to 1.2 m above the ground level. iv. For roads, apron, runway & taxi track all items of excavation, filling GSBC and including treatment of sub-base. v. For reservoirs/tanks (other than overhead reservoirs/tanks): All works up to 1.2 meters above the ground level. vi. For basement: All works up to 1.2 m above ground level or up to floor 1 level whichever is lower
12.6		Any operation incidental to or necessarily has to be in contemplation of tenderer while filing, tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations

CLAUSE 13

	Foreclosure of	If at any time after acceptance of the tender or during the progress of work the purpose or object for which the
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	contract due to Abandonment or Reduction in Scope of Work	work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope the Engineer-in-Charge shall give notice in writing to that effect to the contractor and the contractor stating the decision as well as the cause for such decision and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works. The contractor shall be paid at contract rates, full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view of the foreclosure; i. Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks. ii. AAI shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however AAI shall be bound to take over the materials or such portions thereof as the contractor does not desire to retain. For materials taken over or to be taken over by AAI, cost of such materials as detailed by Engineer-in- Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor. iii. If any materials supplied by AAI are rendered surplus, the same except normal wastage shall be returned by the contractor to AAI at rates not exceeding those at which these were originally issued, less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to AAI stores, if so required by AAI, shall be paid iv. Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other
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		works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable. v. Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary. The contractor shall, if required by the Engineer- in-Charge, furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition. The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the AAI as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer- in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the AAI from the contractor under the terms of the contract. In the event of action being taken under clause 13 to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid upto the extended date the completion or stipulated date of completion if no extension has been granted plus 180 days beyond that. Wherever, such a fresh Performance Guarantee is furnished by the contractor, the Engineer in Charge may return the previous Performance Guarantee
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CLAUSE 14

	Carrying out part Work at risk & cost of	a. If contractor: i. At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; or ii. Commits default in complying with any of the
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	contractor terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer- in-Charge; or iii. Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge. b. The Engineer- in-Charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to AAI, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to: i. Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or ii. Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor c. The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and executed at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by AAI because of action under this clause shall not exceed 10% of the tendered value of the work. d. In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor. e. Any excess expenditure incurred or to be incurred by AAI
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		in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by AAI as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to AAI in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days. f. If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract/ provisions of law. In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract
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CLAUSE 15

	Suspension of Work	i. The contractor shall, on receipt of the order in writing of the Engineer-in- Charge, (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in- Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons: a. on account of any default on the part of the contractor or; b. for proper execution of the works or part thereof for reasons other than the default of the contractor; or c. For safety of the works or part thereof. The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge
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		ii. If the suspension is ordered for reasons (b) and (c) in sub-para (i) above (but not attributed to contractor): a. the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25% for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and; b. If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds thirty days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in-Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in- Charge within fifteen days of the expiry of the period of 30 days. c. If the works or part thereof is suspended on the orders of the Engineer-in- Charge for more than three months at a time, except when suspension is ordered for reasons (a) in sub-para (i) above, the contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer-in- charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the contractor, if he intends to treat the suspension, where it affects only a part of the works as on omission of such part by AAI or where it affects whole of the works, as an abandonment of the works by AAI, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer- in-Charge. In the event of the contractor treating the suspension as an abandonment of the contract by AAI, he shall have no claim to payment of any compensations on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer-in-Charge may consider
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		reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in- Charge within 30 days of the expiry of the period of 3 months
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CLAUSE 15 A

	Compensation in case of delay due to late supply of stipulated material by AAI.	~~The contractor shall not be entitled to claim any compensation from AAI for the losses suffered by him on account of delay by AAI in the supply of materials in Schedule 'B' where such delay is covered by the difficulties relating to supply of wagons, force majeure or any reasonable cause beyond the control of AAI. This clause 15 A will not be applicable for works where no material is stipulated for issue by AAI.~~
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CLAUSE 16

	Action in case Work not done as per Specifications	All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-Charge, his authorize subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit of the AAI or any organization engaged by the Department of Quality Assurance and of the Chief technical Examiner's Office, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself. If it shall appear to the Engineer-in -charge or his authorized subordinates in charge of the work or to the Executive Director-In-charge of quality assurance or his subordinate officers or the officers of the organization engaged by the AAI for quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the
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		contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs.10 lac and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default. In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the authority specified in schedule 'F' may considered reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor
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CLAUSE 17

	Contractor Liable for Damages, defects during maintenance period	If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after a certificate final or otherwise of its completion shall have been given by the Engineer-in-charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall
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		upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineering- charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry of twelve months (six months in the case of work costing Rs. Ten lacs and below except road work) after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. Provided that in the case of road work, if in the opinion of the Engineer-in-charge, half of the security deposit is sufficient, to meet all liabilities of the contractor under this contract, half of the security deposit will be refundable after six months and the remaining half after twelve months of the issue of the said certificate of completion or till the final bill has been prepared and passed whichever is later. In case of Maintenance and Operation works of E&M services, the security deposit deducted from contractors shall be refunded within one month from the date of final payment or within one month from the date of completion of the maintenance contract whichever is earlier
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CLAUSE 18

	Contractor to Supply Tools & Plants etc.	The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in charge's stores) machinery, tools & plants as specified in Schedule F. in addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefor to and from the work. The contractor shall
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		also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-in-charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and / or from his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof
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CLAUSE 18 A

	Recovery of Compensation paid to Workmen	In every case in which by virtue of the provisions sub-section(i) of Section 12, of the Workmen's Compensation Act, 1923, AAI is obliged to pay compensation to a workman employed by the contractor, in execution of the works, AAI will recover from the contractor, the amount of the compensation so paid, and, without prejudice to the rights of the AAI under sub-section(2) of Section 12, of the said act, AAI shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by AAI to the contractor whether under this contract or otherwise. AAI shall not be bound to contest any claim made against it under subsection(1) of Section 12, of the said Act, except on the written request of the contractor and upon his giving to AAI full security for all costs for which AAI might become liable in consequence of contesting such claim
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CLAUSE 18 B

	Ensuring Payment and Amenities to Workers if Contractor fails	In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) act 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, AAI is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19H or under the AAI Contractor's Labour Regulations or under the Rules framed by AAI from time to time for the protection of health and sanitary arrangements for workers employed by AAI Contractors, AAI will recover from the contractor the amount of wages so paid or the amount of expenditure so
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		incurred and without prejudice to the rights of the AAI under sub section (2) of Section 20, sub section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, AAI shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by AAI to the contractor whether under this contract or otherwise AAI shall not be bound to contest any claim made against it under sub section (1) of Section 20, sub section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the AAI full security for all costs for which AAI might become liable in contesting such claim
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CLAUSE 19

	Labour laws to be complied by the Contractor	The contractor shall obtain a valid license under the contract labour (R&A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986. The contractor shall also comply with the provisions of the building and other construction workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996. Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non execution of the work
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CLAUSE 19 A

		No labour below the age of fourteen years shall be employed on the work.
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CLAUSE 19 B

	Payment of wages	Payment of wages: i The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the AAI Contractor's Labour Regulation or as per the provisions of the Contract
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		Labour (Regulation and Abolition) act, 1970 and the contract labour (Regulation and Abolition) Central Rules, 1971 wherever applicable. ii The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him. iii In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the Airports Authority of India contractor's Labour Regulations made by AAI from time to time in regard to payment of wages wage period, deductions from wages recovery of wages not paid and deductions unauthorisedly made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable. iv. The following deductions shall be permissible to be made by the Engineer-in- Charge. a. The Engineer-in-charge concerned shall have the right to deduct from the moneys due to the contractor or any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or nonobservance of the Regulations. b. Under the provision of Minimum Wages (Central) Rule 1950 the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-charge concerned.
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		In the case of Union Territory of Delhi, however, as the all-inclusive minimum daily wages fixed under Notification of the Delhi Administration No.F.12(162)MWO/DAB/43884-91, dated 31.12.1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise. v. The contractor shall comply with the provisions of the Payment of wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rule made thereunder from time to time. vi. The contractor shall indemnify and keep indemnified Authority against payments to be made under and for the observance of the laws aforesaid and the AAI Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub-contractors. vii. The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract. viii. Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise ix. The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen
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CLAUSE 19 C

		In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per AAI Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs. 200/- for
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		each default and in addition, the Engineer-in charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor
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CLAUSE 19 D

		The contractor shall submit by the 4th and 19th of every month, to the Engineer- in charge a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively: i. the number of labourers employed by him on the work, ii. their working hours, iii. the wages paid to him, iv. the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them, and v. the number of female workers who have been allowed maternity benefit according to Clause 19F and the amount paid to them Failing which the contractor shall be liable to pay to AAI, a sum not exceeding Rs. 200/- for each default or materially incorrect statement. The decision of the Engineer- in-charge shall be final in deducting from any bill due to the contractor; the amount levied as fine and shall be binding on the contractor.
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CLAUSE 19 E

		In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed by AAI from time to time for the protection of health and sanitary arrangements for workers employed by the AAI and its contractor.
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CLAUSE 19 F

		Leave and pay during leave shall be regulated as follows: 1. Leave: i. In the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks upto and including the day of delivery and 4 weeks following that day. ii. In the case of miscarriage - upto 3 weeks from the date of miscarriage. 2. Pay:
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		i. In the case of delivery – leave pay during maternity leave will be at the rate of women’s average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater. ii. In the case of miscarriage – leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage. 3. Conditions for the grant of Maternity Leave: No maternity leave benefit shall be admissible to a woman unless she has been employed for a total period of not less than six months immediately preceding the date on which she proceeds on leave. 4. The contractor shall maintain a register of Maternity (Benefit) in the Prescribed Form as shown in appendix – III and IV, and the same shall be kept at the place of work.
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CLAUSE 19 G

		In the event of the contractor (s) committing a default or breach of any of the provisions of the Airports Authority of India Contractor’s Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filling any statement under the provisions of the above Regulations and Rules which is materially incorrect, he / they shall, without prejudice to any other liability, pay to the AAI a sum not exceeding Rs.200/- for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs.200/- per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties. Should it appear to the Engineer-in-Charge that the
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		contractor (s) is / are not properly observing and complying with the provision of the AAI Contractor's Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R&A) Central Rules 1971, for the protection of health and sanitary arrangements for work – people employed by the contractor (s) (hereinafter referred as “the said Rules”) the Engineer-in-Charge shall have power to give notice in writing to the contractor (s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the contractor (s) shall fail within the period specified in the notice to comply with and/ observe the said Rules and to provide the amenities to the work-people as aforesaid, the Engineer-in-Charge shall have the power to provide the amenities hereinbefore mentioned at the cost of the contractor (s). The contractor (s) shall erect, make and maintain at his / their own expense and to approved standards all necessary huts and sanitary arrangements required for his / their work –people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-in-Charge shall have power to give notice in writing to the contractor (s) requiring that the said huts and sanitary arrangements be remodeled and / or reconstructed according to approved standards, and if the contractor (s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-in-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor (s)
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CLAUSE 19 H

		The contractor (s) shall at his / their own cost provided his/ their labour with a sufficient number of huts (hereinafter referred to as the camp) on the following specifications on a suitable plot of land to be approved the Engineer-in-Charge. i. Facility to be provided a. The minimum height of each hut at the eaves level shall be 2.10m (7ft.) and the floor area to be provided will be at the
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		rate of 2.7 sq.m. (30 sq.ft.) for each member of the worker's family staying with the labourer. b. The contractor shall in addition construct suitable cooking places having a minimum area of 1.80m x 1.50m (6' x 5') adjacent to the hut for each family
		c. The contractor(s) shall also construct temporary latrines and urinals for the use of the labourers each on the scale of not less than four per each one hundred of the total strength, separate latrines and urinals being provided for women. d. The contractor (s) shall construct sufficient number of bathing and washing places one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened. ii. Specifications a. All the huts shall have walls of sun-dried or burnt-bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer-in- Charge in case of sun-dried bricks, the walls should be plastered with mud gobri on both sides. The floor may be kutcha but plastered with mud gobri and shall be at least 15 cm (6") above the surrounding ground. The roofs shall be laid with the thatch or any other materials as may be approved by the Engineer-in-Charge and the contractor shall ensure that throughout the period of their occupation, the roofs remain water – tight. b. The contractor (s) shall provide each hut with proper ventilation. c. All doors, windows and ventilators shall be provided with suitable leaves for security purposes. d. There shall be kept an open space of at least 7.2 m (8 yards) between the rows of huts which may be reduced to 6m (20 ft.) according to the availability of site with the approval of the Engineer-in-Charge. Back to back construction will be allowed. iii. Water Supply The contractor (s) shall provided adequate supply of water for the use of labourers. The provisions shall not be less than two gallons of pure and wholesome water per head per

		day for drinking purposes and three gallons of clean water per head per day for bathing and washing purposes. Where piped water supply is available supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or masonry, shall be provided. The contractor (s) shall also at his / their own cost make arrangements for laying pipe lines for water supply to his / their labour camp from the existing mains wherever available and shall pay all fees and charges therefor. iv. The site selected for the camp shall be high ground, removed from jungle. v. Disposal of Excreta: The contractor (s) shall make necessary arrangement for the disposal of excreta from the latrines by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not allowed, the contractor (s) shall make arrangements for the removal of the excreta through the Municipal Committee / authority and inform it about the number of labourers employed so that arrangements may be made by such Committee / authority for the removal of excreta. All charges on this account shall be borne by the contractor and paid direct by him to the Municipality / authority. The contractor shall provide one sweeper for every eight seats in case of dry system. vi. Drainage The contractor (s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy. vii. The contractor (s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers. viii. Sanitation The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities
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CLAUSE 19 I

		The Engineer-in-Charge may require the contractor to
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		dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual work premises, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. Assistant Manager/Junior Executive will display a list of contractors working in the colony/Blocks on the notice board in the colony and also at the service center, to apprise the residents about the same
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CLAUSE 19 J

		It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorized during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy upto 5% of tendered value of work may be imposed by the General Manager Engg. Whose decision shall be final both with regard to the justification and quantum and be binding on the contractor. However, the Executive Director Engg., through a notice may require the contractor to remove the illegal occupation any time on or before construction and delivery
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CLAUSE 19 K

	Employment of skilled / semiskilled workers	The contractor shall at all stages of work deploy skilled / semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute / Industrial Training Institute/National Institution of Construction Management and research (NICMAR) National Academy of Construction, CIDC or any similar reputed and recognized Institute managed / certified by State / Central Government. The number of such qualified tradesmen shall not be less than 20% of
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		total skilled / semi-skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer in charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer -in-Charge. Failure on the part of contractor to obtain approval of Engineer-in-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate of Rs.100 per such tradesman per day. Decision of Engineer in Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding. Provided always, that the provision of this clause shall not be applicable for works with estimated cost put to tender being less than Rs.5 crores
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CLAUSE 19 L

	Contribution of EPF and ESIC	The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis. The verification of deployment of labour will be done through biometric attendance system or any other suitable method by the Engineer in Charge. The applicable and eligible amount of EPF & ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order
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CLAUSE 19 M

	Compliance of NGT guidelines	The contractor is required to follow latest NGT guidelines at the construction site and any violation of such guidelines will be in his account
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CLAUSE 20

	Minimum	The contractor shall comply with all the provision of the
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	Wages Act to be Complied with	Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970 amended from time to time and rules framed thereunder and other labour laws affecting contract labour that may be brought into force from time to time
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CLAUSE 20(A)

Employees Provident Fund & Miscellaneous Provisions Act 1952/Jammu & Kashmir Employees Provident Funds (and Miscellaneous Provisions) Act, 1961 and State Insurance (ESI) Act, 1948.	The Contractor shall comply with all the provisions of the Employees Provident Fund & Misc. Provisions Act, 1952/Jammu & Kashmir Employees Provident Funds (and Miscellaneous Provisions) Act, 1961 and ESI Act, 1948, amended from time to time and rules framed thereunder. Some of the provisions are given below: a. The contractor shall intimate his PF Account Code No. allotted by Regional PF Commissioner and ESI Registration No. allotted by ESI Corporation after commencement of work and shall continue to have valid PF account Code No. and ESI Registration No. till actual completion of the contract. b. The contractor shall maintain a list of contract Workers engaged for contract work along with their PF Account No. & ESI Registration No. c. The contractor on 20th of every month shall provide a monthly statement showing recoveries of contribution and proof of PF & ESI contribution to RPF & ESI Corporation in respect of Workers engaged in contract work. d. The contractor shall provide copies of PF & ESI challans of monthly contributions in respect of contract workers engaged for contract work on month to month basis. e. The contractor reserves the right to withhold minimum amount as detailed under, from the running account payments, if PF / ESI contributions are not paid by the contractor and proof to that effect have not been produced regularly on due dates. To withhold 3% for building work & 1.5% for road/pavement work of the total amount of work done during the period considered
	ESI & EPF amount paid to the statutory authorities by the contractor shall be reimbursed on actual basis on submission of documentary evidence

CLAUSE 21

	Work not to be sublet. Action in case of insolvency	The contract shall not be assigned or sublet without the written approval of Engineer-in-Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employ of AAI in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineers in Charge on behalf of the AAI shall have power to adopt the course specified in Clause 3 hereof in the interest of AAI and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensue
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CLUASE 22

		All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of AAI without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained
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CLAUSE 23

	Changes in firm's Constitution to be intimated	Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 hereof and the same action may be taken and the same consequences shall ensue as provided in the said Clause 21
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CLAUSE 24

		All works to be executed under the contract shall be executed
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		under the direction and subject to the approval in all respects of the Engineer-in-Charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on
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CLAUSE 25

	Dispute Resolution Mechanism and Arbitration	All disputes or differences which may arise out of or in connection with or incidental to the Agreement(s) including any dispute or difference regarding the interpretation of terms and conditions of any clause(s) thereof shall be dealt with as provided hereinafter: (i) Through Mediation: All dispute(s), at the first instance, shall be referred to the Mediation Committee of Independent Experts (MCIE) or individual mediator for mediation as per AAI Mediation Policy and applicable laws. All cost of mediation, shall be borne equally by the parties In case either party withdraws from the Mediation or the dispute(s) is not resolved within 120 days of reference to the Mediation, then the aggrieved party may invoke arbitration through sub para (ii) within 30 days from the date of receipt of Partial Settlement Agreement or Failure Report. (ii) Adjudication through Arbitration: In case no final settlement has been arrived at between the parties after mediation or partially settled as per sub Para (i) above, the unresolved dispute(s), on invocation by the aggrieved party shall be referred for adjudication by arbitration. Arbitration is restricted to dispute with a value of less than Rs. 10 Crore. The dispute shall be referred to a sole Arbitrator to be appointed by Chairman / Member, AAI, after obtaining consent of the other party, as per format annexed at PR-7 Unless the contract has already been repudiated or terminated, the parties shall, in every case, continue to proceed to perform their respective obligations under the agreement. Arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time. Fee payable to the Arbitrator(s) shall be as per Schedule-IV of the Arbitration & Conciliation Act, 1996 and shall be borne by both the parties equally. No dispute shall be referred for resolution under this clause through arbitration in matters for which eviction & recovery procedure is provided under Chapter VA of the Airports Authority of India Act, 1994.
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		In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Authorities inter-se and also between CPSEs and Government Departments/ Organizations (excluding disputes relating (to Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for its resolution through AMRCD as mentioned in DPE OM No. DPE-02/0001/2023-AMRCD-FTS-13578 dated 8th December 2025 and the decision of AMRCD on the said dispute will be binding on both the parties.
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CLAUSE 26

	Contractor to indemnify AAI against Patent Rights	The contractor shall fully indemnify and keep indemnified the Chairman AAI against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay and royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against AAI in respect of any such matters as aforesaid, the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the AAI if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf
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CLAUSE 27

	Lump sum Provisions in Tender	~~When the estimate on which a tender is made, includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of work in question is not, in the opinion of the Engineer-in-Charge payable of measurement, the Engineer-in-Charge may at his discretion pay the lump sum amount entered in the estimate, and the certificate in writing of the Engineer-in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provision of the clause~~
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CLAUSE 28

Action where no specifications are specified	In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge
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CLAUSE 29

With-holding and lien in respect of sums due from contractor	i. Whenever any claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the AAI shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the AAI shall be entitled to withhold the security deposit if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the AAI shall be entitled to withhold and have lien to retain to the extent of such claimed amount or amounts referred to above from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in Charge of the AAI or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim. It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in- Charge or AAI will be kept withheld or retained as such by the Engineer-in-Charge or AAI till the claim arising out of or under the contract is determined by the arbitrator. (if the contract is governed by the arbitration clause) or by the
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		competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the AAI shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise. ii. AAI shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by contractor under the contract or any work claimed to have been done by the him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over payment and it shall be lawful for AAI to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by AAI to the contractor, without any interest thereon whatsoever. Provided that the AAI shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Executive Director Engineering / General Manager Engineering on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Executive Director Engineering / General Manager Engineering
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CLAUSE 29 A

Lien in	i. Any sum of money due and payable to the contractor
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	respect of claims in other Contracts	(including the security deposit refundable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the AAI or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or AAI or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer-in-Charge or the AAI or with such other person or persons. ii. It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the AAI will be kept withheld or retained as such by the Engineer-in-Charge or the AAI or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.
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CLAUSE 30

	Employment of coal mining or controlled area labour not permissible	i. The contractor shall not employ coal mining or controlled area labour falling under any category whatsoever or in connection with the work or recruit labour from area within a radius of 32 km (20 miles) of the controlled area. Subject as above the contractor shall employ imported labour only i.e., deposit imported labour or labour imported by contractors from area, from which import is permitted. ii. Where ceiling price for imported labour has been fixed by State or Regional Labour Committees not more than that ceiling price shall be paid to the labour by the contractor. iii. The contractor shall immediately remove any labourer who may be pointed out by the Engineer-in-Charge as being a coal mining or controlled area labourer. Failure to do so shall render the contractor liable to pay to AAI a sum calculated at the rate of Rs.10/- per day per labourer. The certificate of the Engineer-in -Charge about the number of coal mining
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		or controlled area labourer and the number of days for which they worked shall be final and binding upon all parties to this contract. iv. It is declared and agreed between the parties that the aforesaid stipulation in this clause is one in which the public are interested within the meaning of the exception in Section 74 of Indian Contract Act, 1872. Explanation :- Controlled area mean the following areas: Districts of Dhanbad, Hazaribagh, Jamtara- Sub-Division under Santhal Pargana Commissionery, District of Bankuara, Birbhum, Burdwan, District of Bilaspur. Any other area which may be declared a Controlled Area by or with the approval of the Central Government
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CLAUSE 31

	Unfiltered water supply	The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions. i. That the water used by the contractor (s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge. ii. The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor (s) if the arrangements made by the contractor (s) for procurement of water are in the opinion of the Engineer-in- Charge, unsatisfactory.
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CLAUSE 31A

	Department al water supply, if available	Water if available may be supplied to the contractor by the department subject to the following conditions:- i. The water charges @1% shall be recovered on gross amount of the work done. ii. The contractor(s) shall make his/their own arrangement of water connection and laying of pipelines from existing main of source of supply. iii. The Department do not guarantee to maintain uninterrupted supply of water and it will be incumbent on the contractor (s) to make alternative arrangements for water at his/their own cost in the event of any temporary break down in the AAI's water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down.
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CLAUSE 32

	Alternate water arrangements	i. Where there is no piped water supply arrangement and the water is taken by the contractor from the wells or hand pump constructed by the AAI, no charge shall be recovered from the contractor or that account. The contractor shall, however, draw water at such hours of the day that it does not interfere with the normal use for which the hand pumps and well are intended. He will also be responsible for all damage and abnormal repairs arising out of his use, the cost of which shall be recoverable from him. The Engineer-in-Charge shall be the final authority to determine the cost recoverable from the contractor on this account and his decision shall be binding on the contractor. ii. The contractor shall be allowed to construct temporary wells in AAI land for taking water for construction purposes only after he has got permission of the Engineer-in-Charge in writing. No charges shall be recovered from the contractor on this account but the contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work
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CLAUSE 33

	Return of Surplus materials	Notwithstanding anything contained to the contrary in this contract, where any materials for the execution of the contract are procured with the assistance of AAI either by issue from AAI stocks or purchase made under orders or permits or licenses issued by AAI, the contractor shall hold the said materials economically and solely for the purpose of the contract and not dispose of them without the written permission of the AAI and return, if required by the engineer-in-Charge, all surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination for any reason whatsoever on being paid or credited such prices as the Engineer-in-Charge shall determine having due regard to the condition of the materials. The price allowed to the contractor however shall not exceed the amount charged to him excluding the element
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		of storage charges. The decision of the Engineer-in-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to throwing himself open to action for contravention of the terms of the license or permit and / or for criminal breach of trust, be liable to AAI for all moneys, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach
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CLAUSE 34

	Hire of plant & Machinery	i. The Contractor shall arrange at his own expense all tools, plant, machinery and equipment(hereinafter referred to as T&P) required for execution of the work except for the Plant & Machinery listed in Schedule 'C' and stipulated for issue to the contractor. If the contractor requires any item of T&P on hire from the T&P available with the AAI over and above the T&P stipulated for issue, the AAI will, if such item is available, hire it to the contractor at rates to be agreed upon between him and the Engineer-in-charge. In such a case, all the conditions hereunder for issue of T & P shall also be applicable to such T&P as is agreed to be issued. ii. Plant & Machinery when supplied on hire charges shown in Schedule 'C' shall be made over and taken back at the departmental equipment yard / shed shown in Schedule 'C' and the contractor shall bear the cost of carriage from the place of issue to the site of work and back. The contractor shall be responsible to return the plant and machinery with condition in which it was handed over to him, and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation and otherwise during transit including damage to or loss of plant and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Engineer-in-charge shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor iii. The plant and machinery as stipulated above will be issued as and when available and if required by the contractor. The contractor shall arrange his programme of work according to the availability of the plant and machinery and no claim, whatsoever, will be entertained from him for any delay in supply by the department.
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		iv. The hire charges shall be recovered at the prescribed rates from and inclusive of the date the plant and machinery made over upto and inclusive of the date of the return in good order even though the same may not have been working for any cause except major breakdown due to no fault of the contractor or faulty use requiring more than three working days continuously (excluding intervening holidays and Sundays) for bringing the plant in order. The contractor shall immediately intimate in writing to the Engineer-in-charge when any plant or machinery gets out of order requiring major repairs as aforesaid. The Engineer-in-charge shall record the date and time of receipt of such intimation in the log sheet of the plant or machinery. Based on this if the breakdown before lunch period or major breakdown will be computed considering half a day's breakdown on the day of complaint. If the breakdown occurs in the post lunch period of major breakdown will be computed starting from the next working day. In case of any dispute under this clause, the decision of the Executive Director (Engg) /General Manager (Engg) shall be final and binding on the contractor. v. The hire charges shown above are for each day of 8 hours (inclusive of the one hour lunch break) or part thereof. vi. Hire charges will include service of operating staff as required and also supply of lubricating oil and stores for cleaning purposes. Power fuel of approved type, firewood, kerosene oil etc. for running the plant and machinery and also the full time chowkidar for guarding the plant and machinery against any loss or damage shall be arranged by the contractor who shall be fully responsible for the safeguard and security of plant and machinery. The contractor shall on or before the supply of plant and machinery sign an agreement indemnifying the Department against any loss or damage caused to the plant and machinery either during transit or at site of work. vii. Ordinarily, no plant and machinery shall work for more than 8 hours a day inclusive of one hour lunch break. In case of an urgent work however, the Engineer-incharge may, at his discretion, allow the plant and machinery to be worked for more than normal period of 8 hours a day. In that case, the hourly hire charges for overtime to be borne by the contractor shall be 50% more than the
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		normal proportionate hourly charges (1/8th of the daily charges) subject to a minimum of half day's normal charges on any particular day. For working out hire charges for over time, a period of half an hour and above will be charged as one hour and a period of less than half an hour will be ignored. viii. The contractor shall release the plant and machinery every seventh day for periodical servicing and / or wash out which may take about three to four hours or more. Hire charges for full day shall be recovered from the contractor for the day of servicing / wash out irrespective of the period employed in servicing. ix. The plant and machinery once issued to the contractor shall not be returned by him on account of lack of arrangements of labour and materials, etc. on his part, the same will be returned only when they are required for major repairs or when in the opinion of the Engineer-in-charge, the work or a portion of work for which the same was issued is completed. x. Log Book for recording the hours of daily work for each of the plant and machinery supplied to the contractor will be maintained by the Department and will be countersigned by the contractor or his authorised agent daily. In case the contractor contests the correctness of the entries and / or fails to sign the Log Book, the decision of the Engineer-in-charge shall be final and binding on him. Hire charges will be calculated according to the entries in the Log Book and will be binding on the contractor. Recovery on account of hire charges for road rollers shall be made for the minimum number of days worked out on the assumption that a roller can consolidate per day and maximum quantity of materials or area surfacing as noted against each in the annexed statement (see attached annexure). xi. In the case of concrete mixers, the contractors shall arrange to get the hopper cleaned and the drum washed at the close of the work each day or each occasion. (a) In case rollers for consolidation are employed by the contractor himself, log book for such rollers shall be maintained in the same manner as is done in case of departmental rollers, maximum quantity of any items to be consolidated for each roller-day shall also be same as in Annexure to Clause 34(x). For less use of rollers, recovery for the less roller days shall be made at the stipulated issue rate.
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		xii. The contractor shall be responsible to return the plant and machinery in the condition in which it was handed over to him and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation or otherwise or during transit including damage to or loss of parts, and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Engineer-in-charge shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor. xiii. The contractor will be exempted from levy of any hire charges for the number of days he is called upon in writing by the Engineer-in-charge to suspend execution of the work, provided AAI's plant and machinery in question have, in fact, remained idle with the contractor because of the suspension. xiv. In the event of the contractor not requiring any item of plant and machinery issued by AAI though not stipulated for issue in Schedule 'C' any time after taking delivery at the place of issue, he may return it after two days written notice or at any time without notice if he agrees to pay hire charges for two additional days without, in any way, affecting the right of the Engineer-in-charge to use the said plant and machinery during the said period of two days as he likes including hiring out to a third party
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CLAUSE 35

	Condition relating to use of asphaltic materials	i. The contractor undertakes to make arrangement for the supervision of the work by the firm supplying the tar or bitumen used. ii. The contractor shall collect the total quantity of tar or bitumen required for the work as per standard formula, before the process of painting is started and shall hypothecate it to the Engineer-in-Charge. If any bitumen or tar remains unused on completion of the work on account of lesser use of materials in actual execution of for reasons other than authorised changes of specifications and abandonment of portion of work, a corresponding deduction equivalent to the cost of unused materials as determined by the Engineer-in-Charge shall be made and the material return to the contractors. Although the materials are hypothecated to
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		AAI, the contractor undertakes the responsibility for their proper watch, safe custody and protection against all risks. The materials shall not be removed from site of work without the consent of the Engineer-in-Charge in writing iii. The contractor shall be responsible for rectifying defects noticed within a year from the date of completion of the work and the portion of the security deposit relating asphaltic work shall be refunded after the expiry of this period.
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CLAUSE 36

	Employment of Technical Staff and employees	Contractors Superintendence, Supervision, Technical staff & Employees i. The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract. The Contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name (s), qualifications experience, age, address (s) and other particulars along with certificates, of the principal technical representative to be charge of the work and other technical representative (s) who will be supervising the work. Minimum requirement of such technical representative (s) and their qualifications and experience shall not be lower than specified in schedule 'F'. The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative (s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative (s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative (s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work. All the provisions applicable to the principal technical
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		representative under the clause will also be applicable to other technical representative(s). The principal technical representative and other technical representative (s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required to the Engineer-in-Charge and / or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative (s) shall be deemed to have the same force as if these have been given to the contractor. The Principal Technical Representative and other technical representatives shall be actually available at site fully during all stages of execution work, during recording / checking / test checking of measurements of works whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative (s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements / checked measurements / test checked measurements. The representative (s) shall not look after any other work. Substitutes, duly approved by engineer – in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative (s) by more than two days. If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative (s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non-refundable) shall be effected from the contractor as specified in Schedule 'F' and the decision of the Engineer-in-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and / or other technical representative (s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibility satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative (s) is / are appointed and the contractor shall be held responsible for the delay so caused to the
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		work. The contractor shall submit a certificate of employment of the technical representative (s) (in the form of copy of Form- 16 or CPF deduction issued to the Engineer employed by him) along with every running account bill / final bill and shall produce evidence if at any times so required by the Engineer– in–Charge. ii. The contractor shall provide and employ on the site only such technical assistants as are skilled, and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work. The contractor shall provide and employ skilled, semi-skilled and unskilled labour as is necessary for proper and timely execution of the work. The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes. iii. The contractor shall not change his engineer/supervisory staff after approval of the Engineer-In-Charge. If Contractor wants to replace any of his staff due to unavoidable circumstances, he will seek permission of Engineer-In- Charge indicating reasons for such change, qualification and experience of the alternative employee suggested by him. The qualification and experience of the alternative staff shall not be inferior to the person employed earlier
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CLAUSE 37

	Levy/ Taxes/ Royalty/ Land Licence fee payable by Contractor	1. Taxes: a. Rates to be quoted by the parties should be inclusive of all taxes, duties, CESS, fee, royalty charges etc. levied under any statute but exclusive of GST for all the items b. However GST, as applicable, shall be paid to the contractor, for any taxable supply / services / construction rendered by the agency to AAI, against a valid GST invoice as per terms and conditions of the contract.
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		c. In case supplies /services / works involve imports; the same should be identified separately. Basic Custom Duty & IGST will be paid directly by AAI by utilizing EPCG license/ Duty Credit Scrip under service Export from India Scheme (SEIS) of Govt. of India 2. Royalty: a. The contractor shall at his own expense, provide all materials required for the works other than those which are to be supplied by AAI. The contractor shall deposit royalty and obtain necessary permit for collection of stone, sand, red bajri, kankar etc. from the local authority in the matter and will abide by the notification issued by Central Govt. / State Government / Local State Authorities as applicable from time to time in this regard. The contractor is also bound to allow deduction from his bills any difference in statutory taxes/royalty and penalty proposed by Local State Authorities to AAI till finalization of settlement of all demands in this regard by Central / State Govt. b. This will also be applicable to forest produce. c. If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the AAI and does not any time become payable by the contractor to the State Government. Local authorities in respect of any material used by the contractor in the works then in such a case, it shall be lawful to the AAI and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the contractor. 3. License fee for land a. Land/space (Paved/ Unpaved/ Covered-AC or Non-AC), to the extent allotted to contractors during execution of work for the purpose of installation of plants, labour camps, cement godown, site office stacking of materials shall be provided at free of cost upto defect liability period/ maintenance period. b. A security deposit at the rate of Rs 500/- per sqm in the form of DD/BG shall be deposited by the contractor. In case contractor do not deposit security deposit same shall be deducted from 1st Running Account Bill. c. Such security deposit shall be released only after allotted
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		land has been fully vacated by the contractor to entire satisfaction of Engineer-in-Charge. If contractor fails to vacate the allotted land/ space (Paved/ Unpaved/ Covered-AC/ Non-AC) after Defect Liability Period/ Maintenance Period of the work shall be charged as per prevailing licence fee of the airport plus 25% penalty over that.
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CLAUSE 38

	Conditions for reimbursement of levy/taxes if levied after receipt of tenders	1. Rates to be quoted by the parties should be inclusive of all taxes, duties, CESS, fee, royalty charges etc. levied under any statute applicable on last stipulated date of receipt of tender including extension if any but exclusive of GST. No adjustment i.e. increase or decrease shall be made for any variation in the rate of GSI Building and Other Construction Workers Welfare Cess or any tax, levy or Cess applicable on inputs. However, effect of variation, as per Govt. order after the last date of receipt of tender including extension if any, in rates of GST or Building and Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or Cess applicable on output of the works contract shall be adjusted on either side, increase or decrease. Provided further that for Building and Other Construction Workers Welfare Cess or any tax (other than GST), levy or Cess varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes / levies / Cess. Provided further that such increase in tax / levy / Cess including GST shall not reimbursed if made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under Clause 5 in Schedule F. 2. The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorised representative of AAI or the Engineer-in-Charge and further shall furnish such other information /document as the Engineer-in- Charge may require from time to time.
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		3. The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or Cess, give a written notice thereof to the Engineer-in-charge that the same is given pursuant to the condition, together with all necessary information / documents relating thereto.
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CLAUSE 39

	Termination of contract on death of contractor	Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer-in-charge on behalf of the AAI shall have the option of terminating the contract without compensation to the contractor.
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CLAUSE 40

	If relative working in AAI then the contractor not allowed to tender.	The contractor shall not be permitted to tender for works in AAI wherein his near relative is posted as an Officer responsible for award and execution of work. He shall also intimate the names of persons who are working with him in any capacity or / are subsequently employed by him and who are near relatives to any officer of AAI. Any breach of this condition by the Contractor would render him, the contract liable to be rejected at any stage. NOTE: By the term “near relatives” is meant wife, husband, parents and grand parents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws
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CLAUSE 41

	No any officer in Department of Engineering to work as contractor within one year of retirement	Engineer or any officer employed in engineering or administrative duties in an engineering department of AAI shall not work as a contractor or employee of contractor for a period of one year after his retirement from AAI service without the prior permission of AAI in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of AAI as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.
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CLAUSE 41(a)

	Integrity Pact and Independent	~~Signing of Integrity Pact (As per Appendix XVIII) is mandatory for every bidder/contractor if provided so in Schedule F. All tenderers shall have to submit an~~
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	External Monitor.	undertaking as per Appendix XVIII along with tender documents. AAI shall appoint Independent External Monitor(s) to oversee effective implementation of Integrity Pact for such works/supplies. For this purpose, a panel of Independent External Monitors shall be constituted by the Authority in concurrence with Central Vigilance Commission (CVC). i. The Contractor/Supplier shall have to act in accordance with the conditions laid down in the integrity pact. a. Signing of Integrity Pact is mandatory for every Bidder/Contractor in this procurement/bid process the signed original pact to be send to the office of Bid Manager and should reach before the due date mentioned in NIT. b. The Bidder/contractor shall commit itself to ensure taking all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage as specified in section 3 of the integrity pact. c. Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the authority to take all or any one of the action as specified in section 6 of the integrity pact. ii. In case any violation of above conduct is established, AAI reserves right to take following actions. a. If contractor commits a violation of its commitments and obligations under the Integrity Pact Program during bidding process, he shall be liable for disqualification from tender process and forfeiture of his Earnest Money Deposit/ Bid Security. b. In case of violation of the Integrity Pact after award of the contract, Authority is entitled to terminate the contract and shall be entitled to demand and recover from the contractor damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit or Performance Bank Guarantee, whichever is higher. c. Authority may initiate appropriate proceedings
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		against the contractor. d. ~~Contractor will be liable to pay damages as determined by the Authority.~~ e. ~~Contractor against whom an action for violation of its commitments and obligations has been taken earlier again commits a violation, the Authority is entitled to debar such contractor for future tender/ contract processes for a period as deemed fit.~~ f. ~~A violation is considered to have occurred if the Authority is fully satisfied with the available documents and evidence submitted along with Independent External Monitor's recommendations / suggestions that no reasonable doubt exist in the matter~~
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CLAUSE 41 (b)

	Code of Integrity	No official of AAI or a bidder shall act in contravention of the codes which includes i) prohibition of a) ~~Making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.~~ b) ~~Any omission, or misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.~~ c) ~~Any collusion, bid rigging or anticompetitive behaviour that may impair the transparency, fairness and the progress of the procurement process.~~ d) ~~Improper use of information provided by the procuring entity to the bidder with an intent to gain unfair advantage in the procurement process or for personal gain.~~ e) ~~Any financial or business transactions between the bidder and any official of the procuring entity related to tender or execution process of contract; which can affect the decision of the procuring entity directly or indirectly.~~ f) ~~Any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process.~~
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		~~g) Obstruction of any investigation or auditing of a procurement process.~~ ~~h) making false declaration or providing false information for participation in a tender process or to secure a contract;~~ ~~ii) Disclosure of conflict of interest.~~ ~~iii) Disclosure by the bidder of any previous transgressions made in respect of the provisions of sub-clause (i) with any entity in any country during the last three years or of being debarred by any other procuring entity.~~
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CLAUSE42

	Return of material and recovery for excess material issued.	~~i. After completion of the work and also at any intermediate stage in the event of non-reconciliation of materials issued, consumed and in balance— (see Clause 10), Theoretical quantity of materials issued by the AAI for use in the work shall be calculated on the basis and method given hereunder;~~ ~~a. Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & bitumen required for different items of work as shown in the Schedule of Rates mentioned in Schedule 'F'. In case any item is executed for which standard co-efficient for the consumption of cement or bitumen are not available in the above mentioned schedule / statement or cannot be derived from the same shall be calculated on the basis of standard formula to be laid down by the Engineer-in-Charge.~~ ~~b. Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or as authorised by Engineer-in-Charge, including authorised lappages, chairs etc. plus 3% wastage due to cutting into pieces, such theoretical quantity being determined and compared with the actual issues each diameter-wise, section wise and category wise separately.~~ ~~c. Theoretical quantity of G.I. & C.I. or other pipes, conduits, wires and cables pig lead and G.I. / M.S. sheets shall be taken as quantity actually required and measures plus 5% for wastage due to cutting into pieces (except in the case of G.I./M.S. sheets it shall be~~
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		10%), such determination & comparison being made diameter-wise & categorywise. d. For any other material as per actual requirements. ii. Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule 'F'. The difference in the net quantities of material actually issued to the contractor and the theoretical quantities including such authorised variation, if not returned by the contractor or if not fully reconciled to the satisfaction of the Engineer-in-Charge within fifteen days of the issue of written notice by the Engineer-in-Charge to this effect shall be recovered at the rates specified in Schedule 'F', without prejudice to the provision of the relevant conditions regarding return of materials governing the contract. Decision of Engineer-in-Charge in regard to theoretical quantities of materials, which should have been actually used as per the Annexure of the standard schedule of rates and recovery at rates specified in Schedule 'F' shall be final and binding on the contractor. For non-scheduled items, the decision of the Engineer-in-Charge regarding theoretical quantities of materials which should have been actually used, shall be final and binding on the contractor. g. The said action under this clause is without prejudice to the right of the AAI to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications. h. For materials brought by the contractor for use in item of work at site, similar theoretical consumption shall be prepared and submitted to the Engineer-in-Charge for verification. If it is found that material consumed in the work is less than the theoretical consumption after taking into account permissible minus variation, the recovery for corresponding material shall be effected as per rates specified in schedule 'F' under Clause 42
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CLAUSE 43

	Compensation during warlike situations / act of terrorism	The work (whether fully constructed or not) and all materials, machines, tools and plants scaffolding, temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Engineer-in-Charge and a certificate from him to that effect obtained. In the event of the work
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		or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation or act of terrorism, the contractor shall when ordered (in writing) by the Engineer-in-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Engineer- in-Charge, such payments being in addition to compensation upto the value of the work original executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the Engineer-in charge upto Rs.5,000/- and by the Executive Director Engg. concerned for a higher amount. The contractor shall be paid for the damages / destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the contract. The certificate of the Engineer-in- Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this contract. Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operation (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. Officers or the Engineer-in- Charge (b) for any material etc. not on the site of the work or for any tools plant, machinery, scaffolding, temporary building and other things not intended for the work. In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Engineer – in - charge
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CLAUSE 44

	Apprentices Act provisions	The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued thereunder from time to time. If he fails to do so, his failure
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	to be complied with	will be a breach of the contract and the Executive Director Engg. / General Manager (Engg.) may, in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
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CLAUSE 45

	Release of security deposit	The Security Deposit of the work shall be refunded if no labour complaint has been received from the labour officer till the due date of its payment. If a labour complaint is received during this period, the Engineer-in-Charge shall, after issue of notice in this regard to the contractor, withheld the amount required to settle the complaint from his security deposit and refund the balance amount.
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CLAUSE 46

	Contractor's Liability and Insurance of Works	i. From commencement to completion of the Works, the Contractor shall take full responsibility for the case thereof and for taking precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof and all AA l's T & P from any cause whatsoever (save and except the Excepted Risks) and shall at his own cost repair and make good the same so that at completion, the Works and all AAI's T & P shall be in good order and condition and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-in-Charge. ii. In the event of any loss or damage to the Works or any Part thereof or to any T & P, to any material or articles at the Site from any of the Excepted Risks the following provisions shall have effect: - The Contractor shall, as may be directed in writing by the Engineer-in- Charge, remove from the Site any debris and so much of the works as shall have been damaged, taking to AAI's store such AAI's T & P, articles and/or materials as may be directed; - The contractor shall, as may be directed in writing by the Engineer-in- Charge, proceed with the erection and completion of the Works under and in accordance with the provisions and Conditions of the Contract; and iii. Provided always that the Contractor shall not be entitled to payment under the above provisions in respect of so
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		much loss or damage as has been occasioned by any failure on his part to perform his obligation under the Contract or not taking precautions to prevent loss or damage or minimize the amount of such loss or damage. iv. Without limiting its obligations and responsibilities under other clauses of General Conditions of Contracts, the contractor at his own cost shall insure, in the joint name of AAI and the contractor, against all losses or damages from whatever cause, arising (other than the accepted risks) for which he is responsible under the terms of the contract and in such manner that the AAI and the contractor are covered during the period of construction of works and any loss or damage occasioned by the contractor in the course of any operation carried out by them for the purpose of complying with its obligations of defects liability clause hereof; a. All works including temporary works to their full value executed from time to time. b. The construction materials and equipments to their full value brought on to the site by the contractor. v. The Contractor shall indemnify and keep indemnified AAI against all losses and claims for injuries or damage to any persons or any property whatsoever which may arise out of or in consequence of the construction and maintenance of Works and against all claims, demands proceedings, damage costs, charges and expenses whatsoever in respect of or in relation thereto. vi. Before commencing execution of the work, the Contractor shall, without in any way limiting his obligations and responsibilities under this condition, insure at his own cost against any damage, loss or injury which may occur to any AAI property, or to any person for at least the minimum amount of Rs. 1.00 lakh with unlimited number of occurrences (including any employee of AAI) by or arising out of carrying out of the Contract. vii. The contractor shall at all times indemnify AAI against all claims, damages or compensation under the provisions of Payment or Wages Act, 1936 Minimum Wages Act, 1948, Employer's Liability Act, 1938, the Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947 and the Maternity Benefit Act, 1961 or any modifications thereof or any other law relating thereto and rules made there under from time to time or as a consequence of any accident or injury to any workman or other persons in or
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		about the Works, whether in the employment of the Contractor or not, his agents or servants, and also against all costs, charges and expenses of any suit, action or proceedings arising out of such accident or injury and against all sum or sums which may with the consent of the Contractor be paid to compromise or compound any claim. Without limiting his obligations and liabilities as above provided, the Contractor shall insure against all claims, damages or compensation payable under the Workmen's Compensation Act, 1923 or any modification thereof or any other law relating thereto. viii. All insurance mentioned above shall be effected with any subsidiary of the General Insurance Company of India or by a company approved by the Insurance Regulatory Authority of India. ix. The aforesaid insurance policy / policies shall provide that they shall not be cancelled till the Engineer-in-Charge has agreed to their cancellation in writing. x. The Contractor shall prove to the Engineer-in-Charge from time to time that he has taken out all the insurance policies referred to above and has paid the necessary premiums for keeping the policies alive till expiry of the Defects Liability Period. A self-certified copy of such policies is required to be submitted to the Engineer-in-charge. xi. The Contractor shall ensure that similar insurance policies are taken out by his subcontractors (if any) and shall be responsible for any claims or losses to AAI resulting from their failure to obtain adequate insurance protection in connection thereof. The contractor shall produce or cause to be produced by his subcontractor (if any) as the case may be, the relevant policy or policies and premiums receipts as and when required by the Engineer-in-Charge. A self-certified copy of such policies is required to be submitted to the Engineer-in-charge. xii. If the Contractor and/or his subcontractor (if any) shall fail to effect and keep in force the insurance referred to above or any other insurance which he/they may be required to effect under the terms of the Contract then and in any such case AAI may, without being bound to, effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by AAI from any moneys due or which may become due to the Contractor or recover the same as a debt due
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		from the Contractor. xiii. In case contractor takes Contractor All Risk (CAR) Policy in joint name of AAI and Contractor for full tendered value along with third party liability (max of 10% of tendered value or as applicable as per Insurance Regulatory Authority of India) then there is no requirement for taking separate insurance by sub-contractors. However, workmen compensation policy is required to be taken separately by main contractor and sub-contractor for workers employed by them
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CLAUSE 47

	Composite Contract and responsibilities of main agency	i. ~~The tenders have been called for composite work consisting of civil construction and other associated specialized works. The pre-qualification criteria shall be applicable for each subhead of work independently. The agency meeting PQ criteria for the main work shall be considered for execution of composite work. However the agency shall be allowed to execute only those specialized subheads of works for which bidder meet PQ criteria individually.~~ ii. ~~The main contractor shall be permitted to execute only those works (covered under one or more subhead) for which he meets all requirements of pre-qualification including financial, technical and technological requirement specified in the PQ criteria.~~ iii. ~~Main contractor will associate expert agencies for the execution of specialized works under various subheads for which he himself has failed to meet PQ criteria. In such case he will appoint his associate for the execution of each specialized work with the approval of the NIT approving authority. The main contractor shall intimate the names of only those agencies who fully meet the PQ criteria for each specialized work for the acceptance of the department.~~ iv. ~~Main contractor shall not be permitted to change their associate agencies in the course of execution of work. If change of agency is inevitable then a request shall be submitted to the engineer in-charge in writing giving full justification for change of agency. The proposal should include name of the~~
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		alternate agency along with his financial, technical capabilities and work experience in the appropriate field. Such change shall be allowed only after receiving approval from the competent authority.
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	Composite contract-Tripartite agreement	This clause is applicable for the works for which the estimated cost put to tender is more than Rs.500.00 crores. i. The main contractor shall finalise his rates, terms and conditions and mode of execution of work with specialised agencies for all works covered in various subhead of works on receipt of work order but specifications, preferred makes of materials and performance of system shall remain as specified in tender document. ii. The main contractor shall arrange an agreement between department, main contractor and associated agencies for all subheads on receipt of work order from the engineer-in-charge. Main contractor and expert agency shall be jointly responsible for quality of work and performance of the system. iii. Main contractor shall submit list of associated agency for each specialized work within 1/12th of stipulated completion period or within one month from issue of work order whichever is later along with documentary evidence for financial soundness, technical capabilities and their experience for executing similar specialized works along with his application seeking acceptance for the name of associated agency. Approval / rejection for the name of associated agency shall be accorded thereafter by NIT approving authority within a period of 15 days each subhead wise. iv. The main contractor shall submit duly signed tripartite agreement on the format provided by AAI within 2/12th of stipulated completion period or 60 days whichever is later for acceptance and signature of department. The extension of time for signing of this agreement shall not be generally permitted. The signing time shall only be extended if handing over of site is delayed due to reasons beyond control of the contractor.
	Conditions of composite contract	i. Main contractor shall be responsible for submission of earnest money. ii. The mobilization advance shall be paid to main contractor as per terms and conditions of contract and indicated under Clause 10 B. The first installment of mobilization advance shall be corresponding to the value

		of work which shall be executed by the main contractor. The subsequent mobilization advances corresponding to value of work covered in each subhead shall be released on signing of each Tripartite Agreement with expert agency for the same. iii. The security deposit shall be deducted from the running bills of main contractor after adjustment of full earnest money. iv. Main contractor shall be responsible for completion of work as per time schedule indicated in the NIT. The compensation for the delay shall be levied on the main contractor only. v. The coordination meetings called by AAI or its representative shall be attended by associated expert agencies as and when required. Expert agency shall be responsible for technical soundness, quality of work and adherence to tender specifications. The main contractor as well as associated agency shall be responsible for rectification of deficiencies noticed in specialized work
	Payment Conditions for Composite Contract	i. It will be the responsibility of main contractor to finalize expert agencies for the execution of works covered under all subheads of NIT and get the tripartite agreements signed as per NIT requirement at an early date. The main contractor shall not be paid for value of work covered under second running bill & subsequent bills till all Tripartite Agreements are signed by all agencies concerned. ii. The main contractor must fill the ratio of work which shall govern the ratio of direct payment to the expert agency and to the main contractor for each subhead of work in schedule F. This ratio may also be indicated in tripartite agreement. Thus direct payment to each expert agency shall be released in the same ratio from the net payment (after all deductions). iii. The running bill for specialized work shall be processed as per terms and conditions of the contract. All deductions like security deposit, income tax and part rate for incomplete work or due to any other reason shall be made as per contract conditions from each running bill. In case the ratio as desired under (ii) is not filled by the main contractor AAI will make payment of 75% of the net payable amount to the expert agency directly and balance 25% shall be paid to the main contractor

Clause 48

	Escrow Account This clause stands deleted. Please refer Clause 48 of Schedule F of GCC at page GCC-193	i. ~~All payments for the works estimated cost more than Rs.500 Cr shall be made only through Escrow Account opened by the contractor. However for works costing less than Rs.500 Cr., it shall be at the discretion of Technical Sanctioning authority to opt for Escrow account or not. The bank charges for Escrow Account shall be borne by contractor. The detailed conditions of Escrow Account shall be drawn in consultation with associated bank.~~ ii. ~~Mobilization advance for mobilization of resources and purchase of plant & machinery shall be credited directly to the escrow account opened for this contract through bank transfer as per terms and condition of contract. The agency shall be able to utilize 25% (or as decided by TS authority) of each installment of mobilization advance to meet minor expenses like construction of site office, purchase of office equipment and other minor works, while release of balance 75% fund shall be regulated by the department. The contractor shall seek prior concurrence of Engineer in Charge for release of payment to the supplier etc. through Escrow Account by the Bank. Funds against cheque issued by contractor shall be released by Bank on receipt of written consent from Engineer in Charge.~~ iii. ~~Payment received and credited against each RA Bill, can be utilized 25% directly by the contractor for minor expenses like salary, stationary, office expenses etc. AAI shall exercise control for release of payment by contractor for balance 75%.~~ iv. ~~The Contractor shall submit his proposal to the Engineer in Charge/Authority for utilization of funds made available by AAI (75% against each RA bill)~~ ~~a. Name of agency for whom payment is proposed to be released.~~ ~~b. Details of work executed/material supplied by agency to whom he intends to release payment.~~ ~~c. Nature of advance payment if any, has to be released to the supplier for supply of material for the project only.~~ ~~d. Documentary evidence in support of his claim.~~ v. ~~Engineer in charge will examine and approve full / part of such payments as per agency's request within~~
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		~~maximum of three working days. The terms and condition of Escrow Account shall be finalized with bank according to terms and conditions of contract. Bank shall release payment against such cheques only after written consent of authorised officer of AAI is received.~~ vi. Contractor shall be permitted to close Escrow Account on receipt of final payment for the work/project or on receipt of letter for foreclosure of work by the AAI. All balances and liabilities against this Escrow Account shall be left at the disposal of the contractor
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AIRPORTS AUTHORITY OF INDIA

SAFETY CODE

1. Suitable Scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and handhold shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal and 1 vertical).
2. Scaffolding of staging more than 3.6m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding on staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.(3ft.)
5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11 $\frac{1}{2}$ ") for ladder upto and including 3m. (10ft.) in length. For long ladders, this width should be increased at least $\frac{1}{4}$ " for each additional 30cm. (1 foot) of length. Uniform step spacing of not more than 30cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the site or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained

owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit, action or proceedings to any such person on which may, with the consent of the contractor, be paid to compensate any claim by any such person.

6. a. Excavation and Trenching – All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30m. (100ft.) in length or fraction thereof, Ladder shall extend from bottom of the Trench to at least 90cm (3fts) above the surface of the ground. The side of the trenches which are 1.5 m. (5 ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated material shall not be placed within 1.5 m. (5 ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.
- b. Safety Measures for digging bore holes: -
 - i. If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse;
 - ii. During drilling, Sign boards should be erected near the site with the address of the drilling contractor and the Engineer-in-charge of the work;
 - iii. Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50 Mtr all around the point of drilling to avoid entry of people/animals;
 - iv. After drilling the bore well, a cement platform (0.50 Mtr x 0.50 Mtr x 1.20 Mtr) 0.60 Mtr above ground level and 0.60 Mtr below ground level should be constructed around the well casing;
 - v. After the completion of the bore well, the contractor should cap the bore well properly by welding steel plate, cover the bore well with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while repairing the pump; vi. After the bore well is drilled the entire site should be brought to the ground level;
7. Demolition – Before any demolition work is commenced and also during the progress of the work, i) All roads and open areas adjacent to the work site shall either be closed or suitably protected. ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged. iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

8. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned. The following safety equipment shall invariably be provided.
- i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
 - ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes shall be provided with protective goggles.
 - iii) Those engaged in welding works shall be provided with welder's protective eye-shields.
 - iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
 - v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measures are adhered to:-
 - a) Entry for workers into the line shall not be allowed except under supervision of the Sr. Superintendent (Engg.) or any other higher officer.
 - b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
 - c) Before entry, presence of toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence
 - d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with oxygen kit.
 - e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
 - f) The area should be barricaded or condoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.

- g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
- h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
- i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge may decide the time upto which a worker may be allowed to work continuously inside the manhole.
- j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
- k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 meters away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.
- l) The workers engaged for cleaning the manholes / sewers should be properly trained before allowing to work in the manhole.
- m) The workers shall be provided with Gumboots or non-sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
- n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
- o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
- p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.
- vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken:-
 - a) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.

- b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
 - c) Overall shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work
- 9. An additional clause (viii)(i) of AAI Safety Code (iv) the Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:
 - i) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
 - ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray
 - iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.
 - iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
 - v) Overall shall be worn by working painters during the whole of working period.
 - vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.
 - vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man appointed by competent authority of AAI.
 - viii) AAI may require, when necessary medical examination of workers.
 - ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters
- 10. When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.
- 11. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions:
 - i) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order. (b) Every rope used in hoisting

- or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
- ii) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
 - iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
 - iv) In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the electrical Engineer concerned.
12. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
13. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work
14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.

15. To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer or Engineer-in-Charge of the department or their representatives.
16. Notwithstanding the above clauses from (1) to (15), there is nothing in these to exempt the contractor from the operations of any other Act or Rules in force in the Republic of India

**MODEL RULES FOR THE PROTECTION OF
HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS
EMPLOYED BY AAI OR ITS CONTRACTORS**

1. APPLICATION

These rules shall apply to all buildings and construction works in charge of AAI in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contract work is in progress.

2. DEFINITION

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period during which the contract work is in progress.

3. FIRST-AID FACILITIES

- i) At every work place, there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.
- ii) The first-aid box shall be distinctly marked with a red cross on white back ground and shall contain the following equipment.
 - a) For work places in which the number of contract labour employed does not exceed 50 Each first -aid box shall contain the following equipments:
 - 1. 6 small sterilized dressings
 - 2. 3 medium size sterilized dressings
 - 3. 3 large size sterilized dressings
 - 4. 3 large sterilized burn dressings
 - 5. 1 (30 ml) bottle containing a two per cent alcoholic solution of iodine.
 - 6. 1 (30 ml) bottle containing salvolatile having the dose and mode of administration indicated on the label.
 - 7. 1 snakebite lancet.
 - 8. 1 (30 gms) bottle of potassium permanganate crystals.
 - 9. 1 pair scissors.
 - 10. 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institute, Government of India.
 - 11. 1 bottle containing 100 tablets (each of 5 gms) of aspirin.
 - 12. Ointment for burns.
 - 13. A bottle of suitable surgical antiseptic solution.
 - b) For work places in which the number of contract labour exceed 50. Each first-aid box shall contain the following equipments.
 - 1. 12 small sterilized dressings.
 - 2. 6 medium size sterilized dressings.
 - 3. 6 large size sterilized dressings

4. 6 large size sterilized burn dressings.
 5. 6 (15 gms) packets sterilized cotton wool.
 6. 1 (60 ml). Bottle containing two per cent alcoholic solution iodine.
 7. 1 (60 ml) bottle containing salvolatile having the dose and mode of administration indicated on the label.
 8. 1 roll of adhesive plaster.
 9. 1 snake bite lancet.
 10. 1 (30 gms) bottle of potassium permanganate crystals.
 11. 1 pair scissors.
 12. 1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institute / Government of India.
 13. A bottle containing 100 tablets (each of 5 gms) of aspirin
 14. Ointment for burns. 15. A bottle of suitable surgical antiseptic solution.
- iii) Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
 - iv) Nothing except the prescribed contents shall be kept in the First-aid box.
 - v) The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
 - vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of contract labour employed is 150 or more.
 - vii) In work places where the number of contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works. First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.
 - viii) Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

4. DRINKING WATER

- i) In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.
- ii) Where drinking water is obtained from an intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.
- iii) Every water supply or storage shall be at a distance of not less than 50 feet from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity

of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.

- iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

5. WASHING FACILITIES

- i) In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of contract labour employed therein.
- ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.
- iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

6. LATRINES AND URINALS

- i) Latrines shall be provided in every work place on the following scale namely:
 - a) Where female are employed, there shall be at least one latrine for every 25 females.
 - b) Where males are employed, there shall be at least one latrine for every 25 males.
- ii) Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be upto the first 100, and one for every 50 thereafter.
- iii) Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.
- iv) Construction of latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting nonabsorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system
- v) (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women Only" as the case may be.
(b) The notice shall also bear the figure of a man or of a woman, as the case may be.
- vi) There shall be at least one urinal for male workers upto 50 and one for female workers upto fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeds 50, it shall be sufficient if there is one urinal for every 50 males or females upto the first 50 and one for every 100 or part thereafter.

- vii) (a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.
(b) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.
- viii) Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.
- ix) Disposal of excreta: Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm. Layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).
- x) The contractor shall at his own expense, carry out all instructions issued to him by the Engineer-in-Charge to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

7. PROVISION OF SHELTER DURING REST

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 meters (10 ft.) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq.m. (6 sft) per head. Provided that the Engineer-in-Charge may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

8. CRECHES

- i) At every work place, at which 20 or more women workers are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom. The rooms shall be constructed with specifications as per clause 19 H (ii) a, b & c.
- ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
- iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room.

- iv) The contractor shall provide one ayaa to look after the children in the crèche when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.
- v) The use of the rooms earmarked as crèches shall be restricted to children, their attendants and mothers of the children

9. CANTEENS

- i) In every work place where the work regarding the employment of contractor labour is likely to continue for six months and where in contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.
- ii) The canteen shall be maintained by the contractor in an efficient manner.
- iii) The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.
- iv) The canteen shall be sufficiently lighted at all times when any person has access to it.
- v) The floor shall be made of smooth and impervious materials and inside walls shall be lime washed or colour washed at least once in each year. Provided that the inside walls of the kitchen shall be lime washed every four months.
- vi) The premises of the canteen shall be maintained in a clean and sanitary condition.
- vii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- viii) Suitable arrangements shall be made for the collection and disposal of garbage.
- ix) The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time.
- x) The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square metre (10 sft) per diner to be accommodated as prescribed in sub-Rule (ix).
- xi) (a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.
(b) Washing places for women shall be separate and screened to secure privacy.
- xii) Sufficient tables stools, chairs or benches shall be available for the number of diners to be accommodated as prescribed in sub-Rule (ix).
- xiii) (a) 1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipment necessary for the efficient running of the canteen.
2. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.

- (b) 1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.
2. A service counter, if provided, shall have top of smooth and impervious material.
3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipments.
- xiv) The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.
- xv) The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No Profit, No loss' and shall be conspicuously displayed in the canteen.
- xvi) In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely :-
- a) The rent of land and building.
- b) The depreciation and maintenance charges for the building and equipments provided for the canteen.
- c) The cost of purchase, repairs and replacement of equipments including furniture, crockery, cutlery and utensils.
- d) The water charges and other charges incurred for lighting and ventilation.
- e) The interest and amounts spent on the provision and maintenance of equipments provided for the canteen.
- xvii) The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors

10. ANTI-MALARIAL PRECAUTIONS

The contractor shall at his own expense, conform to all anti-malarial instructions given to him by the Engineer-in-Charge including the filling up of any borrow pits which may have been dug by him.

11. The above rules shall be incorporated in the contracts and in notices inviting tenders and shall form an integral part of the contracts.

12. AMENDMENTS

AAI may, from time to time, add to or amend these rules and issue directions - it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof

AIRPORTS AUTHORITY OF INDIA

Contractor's Labour Regulations

1. SHORT TITLE

These regulations may be called the AAI Contractors Labour Regulations.

2. DEFINITIONS

- i) Workman means any person employed by AAI or its contractor directly or indirectly through a subcontractor with or without the knowledge of the AAI to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied but does not include any person:- a) Who is employed mainly in a managerial or administrative capacity: or b) Who, being employed in a supervisory capacity draws wages exceeding five hundred rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature : or c) Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the principal employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the principal employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the principal employer. No person below the age of 14 years shall be employed to act as a workman.
 - ii) Fair Wages means wages whether for time or piece work fixed and notified under the provisions of the Minimum Wages Act from time to time.
 - iii) Contractors shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through contract labour or who supplies contract labour for any work and includes a subcontractor.
 - iv) Wages shall have the same meaning as defined in the Payment of Wages Act. 3.
3. i) Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
- ii) When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.

- iii) a) Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.
- b) Where the minimum wages prescribed by the Central/State Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.
- c) Where a contractor is permitted by the Engineer-in-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

4. DISPLAY OF NOTICE REGARDING WAGES ETC.

The contractor shall before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain in a clear and legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers giving the minimum rates of wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information as per Appendix' VIII'.

5. PAYMENT OF WAGES

- i) The contractor shall fix wage periods in respect of which wages shall be payable.
- ii) No wage period shall exceed one month.
- iii) The wages of every person employed as contract labour in an establishment or by a contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- iv) Where the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.
- v) All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.

- vi) Wages due to every worker shall be paid to him direct or to other person authorised by him in this behalf.
- vii) All wages shall be paid in current coin or currency or in both.
- viii) Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act 1956.
- ix) A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-Charge under acknowledgement.
- x) It shall be the duty of the contractor to ensure the disbursement of wages in the presence of the Senior Superintendent Engg or authorised representative of the Engineer-in-Charge who will be required to be present at the place and time of disbursement of wages by the contractor to workmen.
- xi) The contractor shall obtain from Engineer in charge or the authorised representative of the Engineer-in-Charge a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form: "Certified that the amount shown in column No. has been paid to the workman concerned in my presence on at" "

Note: In case of payment of wages paid through bank, the contractor shall submit a copy of bank statement for relevant period duly signed by him.

6. FINES AND DEDUCTIONS WHICH MAY BE MADE FROM WAGES

- i) The wages of a worker shall be paid to him without any deduction of any kind except the following:
 - a) Fines
 - b) Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
 - c) Deduction for damage to or loss of goods expressly entrusted to the employed person for custody, or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.
 - d) Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.
 - e) Any other deduction which the Central Government may from time to time allow.
- ii) No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Chief Labour Commissioner. Note: An approved list of Acts and Omissions for which fines can be imposed is enclosed at Appendix-XII

- iii) No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.
- iv) The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the total wages, payable to him in respect of that wage period.
- v) No fine imposed on any worker shall be recovered from him by installment, or after the expiry of sixty days from the date on which it was imposed.
- vi) Every fine shall be deemed to have been imposed on the day of the act or omission in respect. of which it was imposed.

7. LABOUR RECORDS

- i) The contractor shall maintain a Register of persons employed on work on contract in Form XIII of the CL(R&A) Central Rules 1971 (Appendix VI)
- ii) The contractor shall maintain a Muster Roll register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971 (Appendix VII).
- iii) The contractor shall maintain a Wage Register in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971 (Appendix VIII)
- iv) Register of accident - The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars : (a) Full particulars of the labourers who met with accident. (b) Rate of Wages (c) Sex (d) Age (e) Nature of accident and cause of accident (f) Time and date of accident (g) Date and time when admitted in Hospital (h) Date of discharge from the Hospital (i) Period of treatment and result of treatment (j) Percentage of loss of earning capacity and disability as assessed by Medical officer (k) Claim required to be paid under Workmen's Compensation Act. (l) Date of payment of compensation (m) Amount paid with details of the person to whom the same was paid (n) Authority by whom the compensation was assessed. (o) Remarks
- v) The contractor shall maintain a Register of Fines in the Form XII of the CL(R&A) Rules 1971 (Appendix-XIII). The contractor shall display in a good condition and in a conspicuous place of work the approved list of acts and omissions for which fines can be imposed (Appendix-XII)
- vi) The contractor shall maintain a Register of deductions for damage or loss in Form XX of the CL (R&A) Rules 1971 (Appendix-XIV)
- vii) The contractor shall maintain a Register of Advances in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XV)
- viii) The contractor shall maintain a Register of Overtime in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XVI).

8. ATTENDANCE CARD-CUM-WAGE SLIP

- i) The contractor shall issue an Attendance card-cum-wage slip to each workman employed by him in the specimen form at (Appendix-IX)
- ii) The card shall be valid for each wage period.
- iii) The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.
- iv) The card shall remain in possession of the worker during the wage period under reference
- v) The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
- vi) The contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with himself.

9. EMPLOYMENT CARD

- i) The contractor shall issue an Employment Card in Form XIV of the CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker (Appendix-X).

10. SERVICE CERTIFICATE

On termination of employment for any reason whatsoever the contractor shall issue to the workman whose services have been terminated, a Service certificate in Form XV of the CL(R&A) Central Rules 1971.

11. PRESERVATION OF LABOUR RECORDS

All records required to be maintained under Regulations Nos. 6 & 7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-in-Charge or Labour Officer or any other officers authorised by the Ministry of Urban Development in this behalf.

12. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY

The Labour Officer or any person authorised by Central Government on their behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and the Provisions of these Regulations. He shall investigate into any complaint regarding the default made by the contractor or subcontractor in regard to such provision.

13. REPORT OF LABOUR OFFICER

The Labour Officer or other persons authorised as aforesaid shall submit a report of result of his investigation or enquiry to the Engineer-in-Charge concerned indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the contractor under Clause 13 of these regulations, actual payment to labourers will be made by the Engineer-in-Charge after G.M. Engg. has given his decision on such appeal.

(i) Engineer-in-Charge shall arrange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer or the G.M. Engineer as the case may be.

14. APPEAL AGAINST THE DECISION OF LABOUR OFFICER

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorised may appeal against such decision to the Engineer-in-Charge concerned within 30 days from the date of decision, but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

15. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER

- i) A workman shall be entitled to be represented in any investigation or enquiry under these regulations by :
 - a) An officer of a registered trade union of which he is a member.
 - b) An officer of a federation of trade unions to which the trade union referred to in Clause (a) is affiliated.
 - c) Where the employer is not a member of any registered trade union, by an officer of a registered trade union, connected with the industry in which the worker is employed or by any other workman employed in the industry in which the worker is employed.
- ii) An employer shall be entitled to be represented in any investigation or enquiry under these regulations by :
 - a) An officer of an association of employers of which he is a member.
 - b) An officer of a federation of associations of employers to which association referred to in Clause (a) is affiliated.
 - c) Where the employers is not a member of any association of employers, by an officer of association of employer connected with the industry in which the employer is engaged or by any other employer, engaged in the industry in which the employer is engaged.
- iii) No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

16. INSPECTION OF BOOKS AND SLIPS

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Officer or any other person, authorised by the Central Government on his behalf .

17. SUBMISSION OF RETURNS

The contractor shall submit periodical returns as may be specified from time to time.

18. AMENDMENTS

The Central Government/AAI may from time to time add to or amend the regulations and on any question as to the application/interpretation or effect of those regulations the decision of the General Manager (Engg.) concerned shall be final

APPENDIX-I

FORM OF BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT & AMOUNT WITHHELD AGAINST COMPENSATION FOR DELAY IN INDIVIDUAL CONTRACT

(on Non-Judicial Stamp Paper of Rs.100/-)

[Refer Clause 1A and 2B]

To
The Airports Authority of India

.....
.....

1. In consideration of the Airport Authority of India having its head office at New Delhi [hereinafter called the "AAI" which expression shall unless repugnant to the subject or context include its administrator, successors and assigns) having agreed under the terms and condition of Contract Agreement No. dated.....made between.....and AAI in connection with the work of(hereinafter called the said contract) to accept Deed of Guarantee as herein provided for Rs.....(Rupees.....only) from a Nationalized Bank in lieu of the Security deposit to be made by the contractor or lieu of the amount withheld towards compensation for delay pending final extension of time to be made from the contractors contained in the said Contractor. We, the.....bank (hereinafter referred to as "the said Bank" and having our registered office at do hereby under take and agree to identify and keep indemnified AAI from time to time to the extent of Rs.....(Rupees.....only) against any loss or damage, cost,, charges and expenses caused to or suffered by or that may be caused to or suffered by AAI by reason of any breach or breaches by the said Contractor of any of the terms and condition contained in the said contract and to unconditionally pay the amount claimed by AAI on demand and without demur to the extent aforesaid.
2. We Bank, further agree that AAI shall be the sole judge of and as to whether the said Contractor has committed any breach or breaches of any of the terms and conditions of the said contract and the extent of loss, damage, costs, charges and expenses caused to or suffered by or that may be caused to or suffered by AAI on account thereof and the decision of AAI that the said Contractor has committed such breach and breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered of that may be caused to or suffered by AAI from time to time shall be final and binding on us.

3. We, the said Bank, further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said contracts and till all the dues of AAI under the said contract or by virtue of any of the terms and conditions governing the said contract including compensation for delay if any as decided by AAI, have been fully paid and its claims satisfied or discharged and till the Accepting Authority of the contract certifies that the terms and condition and accordingly Contract have been fully and properly carried out by the said contractor and accordingly discharges this guarantee subject, however that AAI shall have no claim under this Guarantee after 90(Ninety) days from the date of expiry of the defects Liabilities periods or Final /Extension of Time grated by AAI as provided available in agreements clause no.....as provided in the said Contract, i.e.....(date) or from the date of cancellation of the said contract, as the case may be, unless a notice of the claim under this Guarantee has been served on the Bank before the expiry of the period in which case the same shall be enforceable against the Bank notwithstanding the fact, that the same is enforced after the expiry of the said period.
4. AAI shall have the fullest liberty without affecting in any way the liability of the bank under this Guarantee or Indemnity from time to time to vary any of the terms and conditions of the said contract or to extend time of performance by the said Contractor or to postpone for any time and form time to time any of the powers exercisable by it against the said Contractor and either to enforce or forbear from enforcing any of terms and conditions governing the said contract or securities available to AAI and the said Bank shall not be released from its liability under these present by any exercise by AAI of any liberty with reference to the matters aforesaid or by reason of time being given to the said contractor or any other forbearance, act or omission on the part by AAI or any indulgence by AAI to the said Contractor or any other matter or thing whatsoever which under the law relating to sureties would but for this provision have the effect of so releasing the Bank from its such liability.
5. It shall not be necessary for AAI to proceed against the contractor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank, notwithstanding any security which AAI may have obtained or obtain from the Contractor at the time when proceedings are taken against the Bank hereunder be outstanding or unrealized.
6. We, the said Bank, lastly undertake not to revoke this Guarantee during its currency except with the previous consent of AAI in writing and agree that any charge in the Constitution of the said Contract or the said Bank shall not discharge our liability hereunder.

In presence of

Dated this _____ Day of _____

WITNESS

1.

2.

For and on behalf of (The Bank)

Signature _____

Name & Designation _____

Authorisation No. _____

Name & Place _____

Bank's Seal _____

The above Guarantee is accepted by Airports Authority of India.

For and on behalf of Airports Authority of India

Signature _____

Name _____

Designation _____

Dated _____

Note:

***For Proprietary Concerns**

Sh. _____ son of _____ resident of _____ carrying on business under the name and style of _____ at _____ (hereinafter called "the said Contractor" which expression shall unless the context requires otherwise include his heirs, executors, administrators and legal representatives).

For Partnership Concerns

1. Sh. _____ son of _____ resident of _____ A- 178

2. Sh. _____ son of _____ resident of _____

carrying on business in co-partnership under the name and style of _____ at _____ (hereinafter collectively called "the said contractor" which expression shall unless the context requires otherwise include each of them and their respective heirs, executors administrators and legal representatives).

For Companies

M/s _____ a Company registered under the Companies Act, 1956 and having its registered office in the State of (Hereinafter called "the said Contractor" which expression shall unless the context requires otherwise include its administrators, successors and assigns).

FORM OF BANK GUARANTEE AGAINST EARNEST MONEY DEPOSIT

WHEREAS, contractor _____ (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated _____ (date) for the construction of "_____" (name of work) (hereinafter called "the TENDER").

KNOW ALL PEOPLE by this presence that we _____ (name of bank) having our registered office at _____ (hereinafter called "the bank") are bound unto Airports Authority of India having its head office at Rajiv Gandhi Bhawan, Safdarjung Airport, New Delhi-110003 (hereinafter called the 'AAI' which expression shall unless repugnant to the subject or contract includes its administration, successors and assigns) in sum of Rs. _____ (Rs. In words _____) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the Bank this _____ day of _____ 20 ____.

THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender.
- (2) If the contractor having been notified of the acceptance of his tender by the engineer-in-charge.
 - a) Fails or refuses to execute the form of Agreement in accordance with the instructions to contractor, if required –
OR
 - b) Fails or refuses to furnish the performance guarantee, in accordance with the provisions of tender document and instructions to contractor,
OR
 - c) Fails or refuses to start the work, in accordance with the provisions of the contract and instructions to contractor,
OR
 - d) Fails or refuses to submit fresh bank guarantee of an equal amount of this bank guarantee against security deposit after award of contract.

We undertake to pay to the engineer-in-charge either up to the above amount or part thereof upon receipt of his first written demand, without the engineer-in-charge having to substantiate his demand, provided that in his demand the engineer-in-charge will note that the amount claimed by him is due to him owing

to the concurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including the date* _____ after the deadline for submission of tender as such deadline is stated in the instructions to contractor or as it may be extended by the engineer-in-charge, notice of which extension (s) to the bank is hereby waived. Any demand in respect of this guarantee should reach the bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESS

SEAL

(SIGNATURE NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

APPENDIX-II**PROFORMA FOR MANDATORY TESTS TO BE ATTACHED WITH RUNNING ACCOUNT BILLS**

Name of work:..... Name of Contractor.....

Contract Agreement No. and Date..... R/A Bill

No.....

Sl. No.	Item	Quantities as per Agreement	Frequency as per Specification	No. of Tests Required	Upto date Quantity	No. of Tests Required	No. of Tests actually done	Remarks
1	2	3	4	5	6	7	8	9

Note: If the number of tests done are less than required, then reasons shall be recorded.

Signature of Sudt. (Engg)

**Signature of Engineer-in-Charge.
(Engg)**

Signature of Manager / AM

REGISTER OF MATERNITY BENEFITS (Clause 19 F)

Name and address of the contractor.....

Name and location of the work.....

Name of the employee	Father's/husband's name	Nature of employment	Period of actual employment	Date on which notice of confinement given
1	2	3	4	5

Date on which maternity leave commenced and ended

Date of delivery/miscarriage	<u>In case of delivery</u>		<u>In case of delivery</u>	
	Commenced	Ended	Commenced	Ended
6	7	8	9	10

<u>Leave Pay paid to the employee</u>				
<u>In case of delivery</u>		<u>In case of miscarriage</u>		Remark
Rate of leave pay	Amount paid	Rate of leave pay	Amount paid	
11	12	13	14	15

**SPECIMEN FORM OF THE REGISTER, REGARDING MATERNITY BENEFIT
ADMISSION TO THE CONTRACTOR'S LABOUR IN
AIRPORTS AUTHORITY OF INDIA WORKS(CLAUSE 19F)**

Name and address of the contractor -----

Name and location of the work -----

- 1) Name of the woman and her husband's name
- 2) Designation
- 3) Date of appointment
- 4) Date with months and years in which she is employed.
- 5) Date of discharge/dismissal, if any
- 6) Date of production of certificates in respect of pregnancy.
- 7) Date on which the woman informs about the expected delivery.
- 8) Date of delivery/miscarriage/death.
- 9) Date of production of certificate in respect of delivery/miscarriage.
- 10) Date with the amount of maternity/death benefit paid in advance of
expected delivery
- 11) Date with amount of subsequent payment of maternity benefit
- 12) Name of the person nominated by the woman to receive the payment of
the maternity benefit after the death.
- 13) If the woman dies, the date of her death, the name of the person to whom
maternity benefit amount was paid, the month thereof and the date in the
register.
- 14) Signature of the contractor authenticating entries in the register.
- 15) Remarks column for the use of Inspection Officer.

Labour Board

Name of work

Name of Contractor-----

Address of Contractor -----

Name and address of A. A. I. Division -----

Name of A. A. I. Labour Officer -----

Address of A. A. I. Labour Officer -----

Name of A.A.I Labour Officer-----

-

Sl.No.	Category	Minimum wage fixed	Actual wage paid	Number present	Remark
--------	----------	-----------------------	---------------------	-------------------	--------

Weekly holiday -----

Wage period -----

Date of payment of wages -----

-

Working hours -----

Rest interval-----

Form-XIII

APPENDIX-VI

[See rule 2(1)]
[Part-A: For all Establishments]
Register of Workmen Employed by Contractor

Name and address of contractor.....

Name and address of establishment which contractor is carried on.....

Name and location of work.....

Name and address of Principal Employer.....

Name of the Establishment-----Name of Owner-----LIN--

Sl. No.	Employee Code	Name	Surname	Gender	Father's/Spo use	Date of Birth#	Nationality	Education Level	Date of	Designation
1	2	3	4	5	6	7	8	9	10	11

Category Address *(HS/S/SS)	Type of Employment	Mobile	UAN	PAN	ESIC IP	LWF	AADHAA R	Bank A/c Numb	Bank	Branch (IFS)	Present Address	Permanent
12	1	14	15	16	17	18	19	20	21	22	23	24

Service Book No.	Date of Exit	Reason for Exit	Mark of Identification	Photo	Specimen Signature/Th	Remarks
25	26	27	28	29	3	31

*(Highly Skilled/Skilled/Semi Skilled/Un Skilled)

#Note: In case the age is between 14 to 18 years, mention the nature of work, daily hours of work and Intervals of rest in the remarks Column.

APPENDIX-VII

Form-XVI
[See Rule 78 (1) (a) (i)]

Muster Roll

Name and address of
contractor.....

Name and address of establishment which contractor is carried
on.....

Name and location of
work.....

Name and address of Principal Employer.....For the
month of fortnight.....

Sl . 1	Name of work Man 2	Se x 3	Father's/ Husband' s 4	Date					Remark
				1	2	3	4	5	

FORM B
[See Rule 78 (1) (a) (i)]
APPENDIX-VIII

FORMAT FOR WAGE REGISTER

Name and address of contractor.....

Name and address of establishment which contractor is carried on.....

Name and location of work.....

Name and address of Principal Employer.....For the month of fortnight.....

Rate of Minimum Wages and since the				
	Highly Skilled	Skilled	Semi-Skilled	Un Skilled
Minimum Basic				
DA				
Overtime				

Name of the Establishment_____Name of Owner_____LIN_____ Wage period

From_____ To _____ (Monthly/Fortnightly/Weekly/Daily/Piece Rated)

Sl. No. in Employ	Name	Rate of Wag	No. of Days worke	Overti me hours	Basic	Speci al Basi	DA	Payme nts Overti	HRA	Others	Total
1	2	3	4	5	6	7	8	9	10	11	12

Deducti								Net Payment	Employer Share PF Welfare Found
PF	ESIC	Society	Income Tax	Insuran ce	Others	Recover ies	Total		
13	14	15	16	17	18	19	20	2	2

Receipt by Employee/Ban k Transaction ID	Date of Payment	Remar ks
2	24	25

FORM C
**FORMAT OF REGISTER OF LOAN/
RECOVERIES**

Name of Establishment_____LIN_____

Sl. Number In Employee	Na me	Recovery Type (Damage/loss/fine/adva	Particul ars	Date of damage/Loss*	Amou nt
1	2	3	4	5	6

Whether show cause	Explanation heard in	Number of Instalments	First Month/Year	Last Month/Year	Date of Complete	Remarks
7	8	9	10	11	12	13

*Applicable only in case of damage/loss/fine

Register of wages

Name and address of contractor.....

Name and address of establishment which contractor is carried on.....

Name and location of work.....

Name and address of Principal Employer.....For the month of fortnight.....

							Amount of wages								
S. No	Name of workman	Serial no in the register of workman	Description/ nature of work done	No. of days worked	Units of work done	Daily rates of wages/ piece rate	Basic wages	Dearness Allowance	Over-time	Other cash payment . (indicate nature)	Total	Deduction if any (indicate nature)	Net amount paid	Sig. or thumb impression of the workmen	Initial contractor his representative
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

WAGE CARD

Wages Card No.....

Name and Address of Contractor.....Date of issue.....

Name and location of work.....Designation.....

Name of workman.....Month/Fortnight.....

Rate of Wages.....

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	28	30	31
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Morning

Rate

Evening

Amount

Initial

Received from.....the sum of Rs.....on account of my wages

The Wage Card is valid for one month from the date of iss

Signature

19/Form-XIX
APPENDIX-IX
78 (2)
[See rule 78 (1) (b)]

Wages Slip

Name and address of contractor.....

Name and Father's/Husband name of workman.....

Name and location of work.....

For the week/Fortnight/Month ending.....

1. No. of days worked.....

2. No. of units worked in case of piece rate workers.....

3. Rate of daily wages/piece rate.....

4. Amount of overtime wages.....

5. Gross wages payable.....

6. Deduction, if any.....

7. Net amount of wages paid.....

Initials of the contractor or his representative

14/Form-XIV
[See rule 76]
Employment Card

Name and address of contractor.....

Name and address of establishment under which is carried.....

Name of work and location of work.....

Name and address of Principal Employee.....

1. Name of the workman.....

2. SI. No. in the register of workman employed.....

3. Nature of employment/designation.....

4. Wage rate (with particulars of unit in case of piece work).....

5. Wage period.....

6. Tenure of employment.....

7. Remark.....

Signature of Contractor

FORM OF PERFORMANCE SECURITY (GUARANTEE)

Bank Guarantee Bond

(On Non-Judicial Stamp Paper of Rs100/-)

1. In consideration of the Chairman, AAI (hereinafter called "AAI") having offered to accept the terms and conditions of the proposed agreement between
[hereinafter called the said contractor(s)] for the work
(hereinafter "the said agreement") having agreed to production of a irrevocable Bank Guarantee for Rs. (Rupees only) as a security / guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

We (Indicate the name of the Bank) (hereinafter referred to as "the Bank") hereby undertake to pay to the Chairman, AAI an amount not exceeding Rs. (Rupees only) on demand by AAI.

2. We (Indicate the name of the Bank) do hereby undertake to pay the amounts due to payable under this Guarantee without any demure, merely on a demand from AAI stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupees only).
3. We, the said Bank, further undertake to pay the Chairman, AAI any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.

4. We..... (Indicate the name of bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of AAI under or by virtue of the said agreement have been fully paid and its claims satisfied or

discharged or till Engineer-In-Charge on behalf of AAI certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.

5. We..... (indicate the name of the bank) further agree with AAI that AAI shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by AAI against in the said contractor(s) and to forebear and enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extensions being granted to the said contractor(s) or for any forbearance, act of omission on the part of AAI or any indulgence by the AAI to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to securities would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7. We..... (Indicate the name of the bank) lastly undertake not to revoke this guarantee except with the previous consent of AAI in writing.
8. This guarantee shall be valid upto unless extended on demand by AAI. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees only) and unless a claim in writing is lodged within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

In presence of

Dated this _____ Day of _____

Witness

- 1.
- 2.

For and on behalf of (The Bank)

Signature _____

Name & Designation _____

Authorisation No. _____

Name & Place _____

Bank's Seal _____

The above Guarantee is accepted by Airports Authority of India. For and on behalf of Airports Authority of India

Signature _____

Name _____

Designation _____

Dated _____

Note : * Date of validity should be schedule date of completion + Six months.

APPENDIX-XI-A

Format for Letter of undertaking from the Depositor to Bank

(To be submitted along with Security Deposit / Earnest Money / Performance
Guarantee to Airport Authority of India)

(To be submitted in the Letter head of the firm)

The Branch Manager,
.....Bank,
.....

Sub: - My / Our Bank Guarantee bearing No.....dated for amount..... Issued
in favour of Airport Authority of India A/c.....

Sir,

The subject Bank Guarantee is obtained from your bank for the purpose of
Security Deposit / Earnest Money / Performance Guarantee on account of
contract awarded / to be awarded by M/s Airports Authority of India to me / us.

I hereby authorized the Airport Authority of India in whose favour the
deposit is made to close the subject Bank Guarantee before maturity/ on
maturity toward adjustment of dues without any reference /consent /notice
from me / our side and the bank is fully discharged by making the payment to
Airport Authority of India.

Signature of the Depositor

Place:

Date:

LIST OF ACTS AND OMISSIONS FOR WHICH FINES CAN BE IMPOSED

In accordance with rule 7(v) of the AAI Contractor's Labour Regulations to be displayed prominently at the site of work both in English and local Language.

1. Wilful insubordination or disobedience, whether alone or in combination with other.
2. Theft fraud or dishonesty in connection with the contractors beside a business or property of AAI.
3. Taking or giving bribes or any illegal gratifications
4. Habitual late attendance.
5. Drunkenness lighting, riotous or disorderly or indifferent behaviour
6. Habitual negligence.
7. Smoking near or around the area where combustible or other materials are locked
8. Habitual Indiscipline
9. Causing damage to work in the progress or to property of the AAI or of the contractor.
10. Sleeping on duty.
11. Malingering or slowing down work.
12. Giving of false information regarding name, age, father's name, etc.
13. Habitual loss of wage cards supplied by the employer's

14. Unauthorised use of employer's property of manufacturing or making of unauthorised particles at the work place
15. Bad workmanship in construction and maintenance by skilled workers which is not approved by the Department and for which the contractors are compelled to undertake rectifications.
16. Making false complaints and/or misleading statements.
17. Engaging on trade within the premises of the establishments.
18. Any unauthorised divulgence of business affairs of the employees.
19. Collection or canvassing for the collection of any money within the premises of an establishment unless authorised by the employer.
20. Holding meeting inside the premises without previous sanction of the employers.
21. Threatening or intimidating any workman or employer during the working hours within the premises.

APPENDIX-XIII

Form-XVII

[See Rule 78 (2) (d)]

Register of Fines

Name and address of contractor.....

Name and address of establishment which contractor is carried on.....

Name and location of work.....

Name and address of Principal Employer.....

Sl. No.	Name of workman	Father's/ Husband's Name	Designation nature of employment	Act or action for which fine imposed	Date of Offence	Whether workman showed cause against fine	Name of person in whose presence employee's explanation was heard	Wage period and wages payable	Amount of the imposed	Date on which fine realised	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

APPENDIX-XIV

Form-XVII
[See Rule 78 (2) (d)]
Register of Deduction for Damage or Loss

Name and address of contractor.....

Name and address of establishment under which contract is carried on.....

Name and location of work.....

Name and address of Principal Employer.....

Sl. No.	Name of work man	Father's Husband's Name	Designation/nature of employment	Particular of Damages or Loss	Date of damages or loss	Whether workman showed cause against deduction	Name of person in whose presence employee's explanation was heard	Amount of deduction imposed	No. of installments	Date of recovery		Remark
										First Installment	Last Installment	
1	2	3	4	5	6	7	8	9	10	11	12	13

Form-XXII
[See Rule 78 (2) (d)]
Register of Advances

Name and address of contractor.....

Name and address of establishment under which contract is carried on.....

Name and location of work.....

Name and address of Principal Employer.....

Sl. No.	Name of work man	Father's Husband's Name	Designation/nature of employment	Wage period and wages payable	Date and amount of advance paid	Purpose for which advance paid	Number of installment by which advance to be repaid	Date and amount of each installment repaid	Date on which last installment was repaid	Remark
1	2	3	4	5	6	7	8	9	10	11

APPENDIX-XVI

Form-XXIII

[See Rule 78 (2) (e)]

Register of Overtime

Name and address of contractor.....

Name and address of establishment under which contract is carried on.....

Name and location of work.....

Name and address of Principal Employer.....

S. No	Name of work men	Father's/ Husband's Name	Sex	Designation/ nature of employment	Date on which overtime worked	Total overtime worked at project in case of piece rate	Normal rate of wages	Overtime rate of wages	Overtime earning	Rate on which overtime paid	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

NOTICE FOR APPOINTMENT OF ARBITRATOR

[Refer Clause 25]

To

.....
.....

Dear Sir,

In terms of clause 25 of the agreement, particular of which are given below, I/we hereby give notice to you to appoint an arbitrator for settlement of disputes mentioned below:

1. Name of applicant
2. Whether applicant is Individual/Prop. Firm /Partnership Firm/Ltd. Co.
3. Full address of the applicant.
4. Name of the work and contract number in which arbitrator sought.
5. Name of the office which entered into contract.
6. Contract amount in the work.
7. Date of contract.
8. Date of initiation of work.
9. Stipulated date of completion of work.
10. Actual date of completion of work (if completed).
11. Total number of claim made.
12. Total amount claimed.
13. Date of intimation of final bill (if work is completed).
14. Date of payment of final bill (if work is completed).
15. Amount of final bill (if work is completed).
16. Date of request made to ED for decision.
17. Date of receipt of ED's decision.
18. Date of appeal.
19. Date of receipt of decision on our appeal.

Specimen signature of the applicant
(Only the person/authority who
Signed the contract should sign)

I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose following documents.

1. Statement of claims with amount of claims.
- 2.
- 3.
- 4.

Yours faithfully
(Signature)

Copy to:

1. The Engineer-in-charge,
.....

INTEGRITY PACT

The integrity pact shall be signed by both the parties in the following format

~~“This Pact made this day of between Airports Authority of India, a body corporate constituted by the Central Government under the Airports Authority of India Act,1994 and having its Corporate Office at Rajiv Gandhi Bhawan, New Delhi, and offices at in India, hereinafter called the Authority (which term shall unless excluded by or is repugnant to the context, be deemed to include its Chairman, or Member, Executive Directors, Airport Directors, officers or any of them specified by the Chairman in this behalf, and shall also include its successors and assigns) of the one part~~

AND

~~.....represented by of the other part, hereinafter called the “Bidder/Contractor “(which term shall unless excluded by or is repugnant to the context be deemed to include its heirs, representatives, successors and assigns of the Bidder/ Contractor)~~

~~WHEREAS the Authority intends to award, under laid down organizational procedures, tender/ contract for The Authority, while discharging its functions on business principles, values proper compliance with all relevant laws and regulations, and the principles of natural justice, ethics, equity, fairness and transparency in its relations with the Bidders/ Contractors.~~

~~WHEREAS the Authority is desirous to make its business mechanism more transparent, thus to ensure strict adherence of the aforesaid objectives/goals, the Authority hereby adopts the instrument developed by the renowned international non-governmental organization “Transparency International” (T I) headquartered in Berlin (Germany). The Authority will appoint an Independent External Monitor (IEM) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.~~

~~AND WHEREAS the Bidder is submitting a tender to the Authority for In response to the NIT (Notice Inviting Tender) dated Contractor is signing the contract for execution of NOW, therefore, To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to Enabling the Authority to obtain the desired said stores/equipment/execution of works at a competitive price in conformity with the defined specifications by avoiding the high cost and the~~

~~distortionary impact of corruption on public procurement, and Enabling Authority to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the Authority will commit to prevent corruption, in any form, by its officials by following transparent procedures. The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:~~

~~1. Commitments of the Authority;~~

- ~~1.1 The Authority undertakes that no official of the Authority, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.~~
- ~~1.2 The Authority will, during the pre-contact stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.~~
- ~~1.3 All the officials of the Authority will report to the appropriate authority office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.~~
- ~~1.4 In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the Authority with full and verifiable facts and the same is prima facie found to be correct by the Authority, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the Authority and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the Authority the proceedings under the contract would not be stalled.~~

~~2. Commitments of Bidders/Contractor.~~

~~The Bidder/Contractor commits itself to take all measures necessary to prevent corrupt practice, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following.~~

- ~~2.1 The Bidder/Contractor will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement~~

~~to any official of the Authority, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.~~

- ~~2.2 The Bidder/Contractor further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Authority or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Authority for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Authority.~~
- ~~2.3 The Bidder / Contractor has not entered and will not enter with other bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specification, certifications, subsidiary contracts, submission or non-submission of bids or any actions to restrict competitiveness or to introduce cartelization in the bidding process.~~
- ~~2.4 The Bidder/Contractor shall, when presenting his bid, disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.~~
- ~~2.5 The Bidder/Contractor shall when presenting his bid disclose any and all the payments he has made or, is committed to or intends to make to agents/brokers or any other intermediary, in connection with this bid/contract.~~
- ~~2.6 The Bidder/Contractor further confirms and declares to the Authority that the BIDDER is the original manufacturer/integrator/ authorized government sponsored export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the Authority or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.~~
- ~~2.7 The Bidder/Contractor, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made or has committed to or intends to make to officials of the Authority or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.~~
- ~~2.8 The Bidder/Contractor will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.~~

- ~~2.9 The Bidder/Contractor will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.~~
- ~~2.10 The Bidder / Contactor shall not use improperly, for purposes of competition or personal gain ,or pass on to others, any information provided by the Authority as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The Bidder / Contractor also under takes to exercise due and adequate care lest any such information is divulged.~~
- ~~2.11 The Bidder/Contractor will inform to the Independent External Monitor.~~
- ~~i) If he receives demand for an illegal/undue payment/benefit.~~
- ~~ii) If he comes to know of any unethical or illegal payment/benefit.~~
- ~~iii) If he makes any payment to any Authority's associate(s)~~
- ~~2.12 The Bidder/Contactor commit to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.~~
- ~~2.13 The Bidder/Contactor shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.~~
- ~~2.14 If the Bidder/Contractor or any employee of the Bidder/Contractor or any person acting on behalf of the Bidder/ Contractor, either directly or indirectly, is a relative of any of the officers of the Authority, or alternatively, if any relative of an officer of the Authority has financial interest/stake in the Bidder's/Contractor's firm, the same shall be disclosed by the Bidder/Contractor at the time filing of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.~~
- ~~2.15 The Bidder/Contractor shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Authority.~~
- ~~2.16 That if the Bidder/ Contractor, during tender process or before the award of the contract or during execution of the contract/work has committed a transgression in violation of section 2 or in any other form such as to put his reliability or credibility as Bidder/Contractor into question, the Authority is entitled to disqualify him from the tender process or to terminate the contract for such reason and to debar the BIDDER from participating in future bidding processes.~~

3. Previous Transgression

- ~~3.1 The Bidder/Contractor declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify Bidders's exclusion from the tender process.~~

- 3.2 ~~The Bidder/Contractor agrees that if it makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason and he may be considered for debarment for future tender/contract processes.~~
- 3.3 ~~That the Bidder/Contractor undertakes to get this Pact signed by the subcontractor (s) and associate(s) whose value of the work contribution exceeds Rs 0.5 Cr. (Rupees zero point five Cr.) and to submit the same to the Authority along with the tender document/ contract before contract signing.~~
- 3.4. ~~That sub-contractor(s)/ associate(s) engaged by the Contractor, with the approval of the Authority after signing of the contract, and whose value of the work contribution exceeds Rs 0.5 Cr. (Rupees Zero point five Cr.) will be required to sign this Pact by the Contractor, and the same will be submitted to the Authority before doing/ performing any act/ function by such subcontractor(s) / associate(s) in relation to the contract/ work.~~
- 3.5 ~~That the Authority will disqualify from the tender process all Bidder(s) who don't sign this Pact or violate its provisions or fails to get this Pact signed in terms of policy of authority~~
- 3.6 ~~That if the Contractor(s) does/ do not sign this Pact or violate its provisions or fails to get this Pact signed in terms of policy of authority. Authority will terminate the contract and initiate appropriate action against such Contractor(s).~~

4. ~~Earnest Money, Security Deposit, Bank Guarantee, Draft, Pay order or any other mode and its validity i/c Warranty Period, Performance Guarantee/Bond.~~

~~While submitting bid, the BIDDER shall deposit an EMD/SD/BG/DRAFT/PAY ORDER ETC I/C WARRANTY PERIOD, PG/BOND, VALIDITY etc. , which is as per terms and conditions and details given in NIT / tender documents sold to the Bidders.~~

5. ~~Sanctions for Violations/Disqualification from tender process and exclusion from future Contacts.~~

5.1 ~~Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the Authority to take all or any one of the following actions, wherever required:~~

- ~~i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.~~
- ~~ii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.~~
- ~~iii) If the Authority has disqualified / debarred the Bidder from the tender process prior to the award under section 2 or 3 or 4, the~~

~~Authority is entitled to forfeit the earnest money deposited/bid security.~~

- ~~iv) To recover all sums already paid by the Authority, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the Authority in connection with any other contract or any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.~~
- ~~v) To en-cash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.~~
- ~~vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the Authority resulting from such cancellation/rescission and the Authority shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.~~
- ~~vii) To debar the BIDDER from participating in future bidding processes for a period of up to two years..~~
- ~~viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.~~
- ~~ix) In case where irrevocable Letters of Credit have been received in respect of any contract signed by the Authority with the BIDDER, the same shall not be opened.~~
- ~~x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.~~
- ~~xi) That if the Authority have terminated the contract under section 2 or 3 or 4 or if the Authority is entitled to terminate the contract under section 2 or 3 or 4, the Authority shall be entitled to demand and recover from the contractor damages equivalent to 5% of the contract value or the amount equivalent to security deposit or performance bank guarantee, whichever is higher.~~
- ~~xii) That the Bidder / Contractor agrees and undertakes to pay the said amount without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish to the satisfaction of the Authority that the disqualification / debarment of the bidder from the tender process or the termination of the contract after award of the contract has caused no damage to the Authority.~~

~~5.2 The Authority will be entitled to take all or any of the actions mentioned at para 5.1 above.~~

- 5.3 ~~(i) to (xii) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.~~
- 5.4 ~~That if the Bidder/Contractor applies to the Authority for premature revocation of the debarment and proves to the satisfaction of the Authority that he has installed a suitable and effective corruption prevention system and also restored/recouped the damage, if any, caused by him, the Authority may, if thinks fit, revoke the debarment prematurely considering the facts and circumstances of the case, and the documents/evidence adduced by the Bidder/Contractor for first time default.~~
- 5.5 ~~That a transgression is considered to have occurred if the Authority is fully satisfied with the available documents and evidence submitted along with Independent External Monitor's recommendations/suggestions that no reasonable doubt is possible in the matter.~~
- 5.6 ~~The decision of the Authority to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent External Monitor(s) appointed for the purpose of this Pact.~~

6. ~~Allegations against Bidders/Contractors/ Sub-Contractors/ Associates:~~

- ~~That if the Authority receives any information of conduct of a Bidder/ Contractor or Sub- Contractor or of an employee or a representative or an associate of the Bidder, Contractor or Sub- Contractor which constitute corruption, or if the Authority has substantive suspicion in this regard, the Authority will inform the Vigilance Department for appropriate action.~~

7. ~~Independent External Monitor(s),~~

- 7.1. ~~That the Authority has appointed competent and credible Independent External Monitor(s) for this Pact.~~
- 7.2. ~~The task of the Monitor(s) is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact. He will also enquire into any complaint alleging transgression of any provision of this Pact made by the Bidder, Contractor or Authority.~~
- 7.3. ~~That the Monitor(s) is not subject to any instructions by the representatives of the parties and would perform his functions neutrally and independently. He will report to the Chairperson of the Board of the Authority.~~

- 7.4 — ~~That the Bidder / Contractor accepts that the Monitor(s) has the right to access without restriction to all project documentation of the Authority including that provided by the Bidder/Contractor. The Bidder/Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation including minutes of meeting. The same is applicable to Sub-Contractors and Associates. The Monitor is under obligation to treat the information and documents of the Authority and Bidder/ Contractor / Sub-Contractors/ Associates with confidentiality.~~
- 7.5. — ~~That as soon as the Monitor notices, or believes to notice, a violation of this Pact, he will so inform the management of the Authority and request the management to discontinue or heal the violation, or to take other relevant action. The Monitor(s) can in this regard submit his recommendations/ suggestions. Beyond this, the Monitor(s) has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.~~
- 7.6 — ~~That the Authority will provide to the Monitor(s) sufficient information about all meetings among the parties related to the project provided such meetings could have an impact on the contractual relations between the Authority and the Contractor / Bidder. The parties offer to the Monitor(s) the option to participate in such meetings.~~
- 7.7 — ~~That the Monitor(s) will submit a written report to the Chairperson of the Board of the Authority within 2 weeks from the date of reference or intimation to him by the Authority and, should the occasion arise, submit proposals for correcting problematic situations.~~
- 7.8 — ~~That if the Monitor(s) has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti- Corruption Laws of India and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Department, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.~~
- 7.9 — ~~The word 'Monitor' would include singular and plural.~~

8. — ~~Facilitation of Investigation.~~

- ~~In case of any allegation of violation of any provisions of this Pact or payment of commission, the Authority or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such Examination.~~

9. — ~~Law and Place of Jurisdiction.~~

- ~~That this Pact is subject to provisions under Indian Law. The place of performance and jurisdiction is the Corporate Headquarter /the Regional Headquarter / office of the Authority, as applicable.~~

10. ~~Other Legal Actions~~

~~10.1 That the changes and supplements as well as termination notice need to be made in writing.~~

~~10.2 That if the Bidder / Contractor are a partnership or a consortium, this Pact must be signed by all the partners and consortium members or their authorized representatives.~~

11. ~~Pact duration (Validity)~~

~~11.1 That this Pact comes into force when both the parties have signed it. It expires for the Contractor 12 months after the final payment under the respective contract, and for all other Bidders 3 months after the contract is awarded.~~

~~11.2. That if any claim is made / lodged during this period, the same shall be binding and continue to be valid despite the lapse of this Pact as specified herein before, unless it is discharged/determined by Chairman of the Authority.~~

~~11.3 That should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.~~

12. ~~Company Code of Conduct~~

~~Bidders are also advised to have a company code of conduct (clearly rejecting the use of bribes and other unethical behaviour) and a compliance program for the implementation of the code of conduct throughout the company.~~

~~13. The parties hereby sign this Integrity Pact at _____ on _____~~

~~_____ **Buyer**~~

~~_____ Name of the Officer~~

~~Designation~~

~~Deptt./Ministry/PSU~~

~~Witness~~

~~1. _____~~

~~2. _____~~

~~**Bidder**~~

~~CHIEF EXECUTIVE OFFICER~~

~~Witness~~

~~1. _____~~

~~4. _____~~

APPENDIX-XIX

(To be filled by Contractor)
(~~CLAUSE-47~~)

~~Ratio of direct payment to the specialized : ...% of the net payment to be made to Specialized agency in case of composite contract agency~~

~~Sl.~~	~~Sub-head~~	~~Nature of work~~	~~% of the net payment to be made to Specialized agency~~
~~1~~	~~Sub-head I~~		

Note:

- ~~1. NIT approving authority must ensure that all sub-heads of works are covered in above table. The bidder must indicate percentage payable to specialized agency in case of all sub-heads.~~
- ~~2. If % is not filled in by the contractor against one or more subhead in this schedule, then 75% of the net payment admissible as per AAI for the subhead under consideration shall be paid directly to specialized agency in case of composite contract.~~

INDENTURE FOR SECURED ADVANCES
(Reference Clause 10 B)

(For use in cases in which the contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time)

THIS INDENTURE made the.... day of 20..
 BETWEEN.....

(hereinafter called the Contractor which expression shall where the context so admits or implies be deemed to include his executors administrators and assigns) of the one part and the CHAIRMAN, AAI (hereinafter called the AAI which expression shall where the context so admits or implies be deemed to include his successors in office and assigns) of the other part.

WHEREAS by an agreement dated (hereinafter called the said agreement) the Contractor has agreed AND WHEREAS the Contractor has applied to the AAI that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS the AAI has agreed to advance to the Contractor the sum of Rupees on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account Bill for the said works signed by the Contractor on and the AAI has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works. Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees on or before the execution of these presents paid to the Contractor by the AAI (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor doth hereby covenant and agree with the AAI and declare as follows: -

- (1) That the said sum of Rupees so advanced by the AAI to the Contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.
- (2) That the materials detailed in the said Account of Secured Advances which have been offered to and accepted by the AAI as security are absolutely the Contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnifies the AAI against all claims to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the materials detailed in the said Account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Engineer-in-Charge of the project (hereinafter called the Engineer-in-Charge) and in the term of the said agreement.
- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said

works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Engineer-in-Charge or any officer authorised by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Engineer-in-Charge.

- (5) That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Engineer-in-Charge or an officer authorised by him on that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the AAI of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the AAI will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the AAI shall immediately on the happening of such default be repayable by the Contractor to the President together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damages and expenses incurred by the President in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the President to repay and pay the same respectively to him accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the President of the said sum of Rupees and any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the AAI may at any time thereafter adopt all or any of the following courses as he may deem best :-
 - a) Size and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor, he is to pay same to the AAI on demand.
 - b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the MI under these presents and pay over the surplus (if any) to the Contractor. Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement
- (9) That except in the event of such default on the part of the Contractor as aforesaid interest on the said advance shall not be payable.

- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been herein before expressly provided for the same shall be finally resolved as per provisions of clause 25 of the contract.

In witness whereof the said and by the order and under the direction of the AAI have hereunto set their respective hands the day and year first above written.

Signed, sealed and delivered by the said contractor in the presence of
..... ..

Signature

Witness Name

Address

Signed by

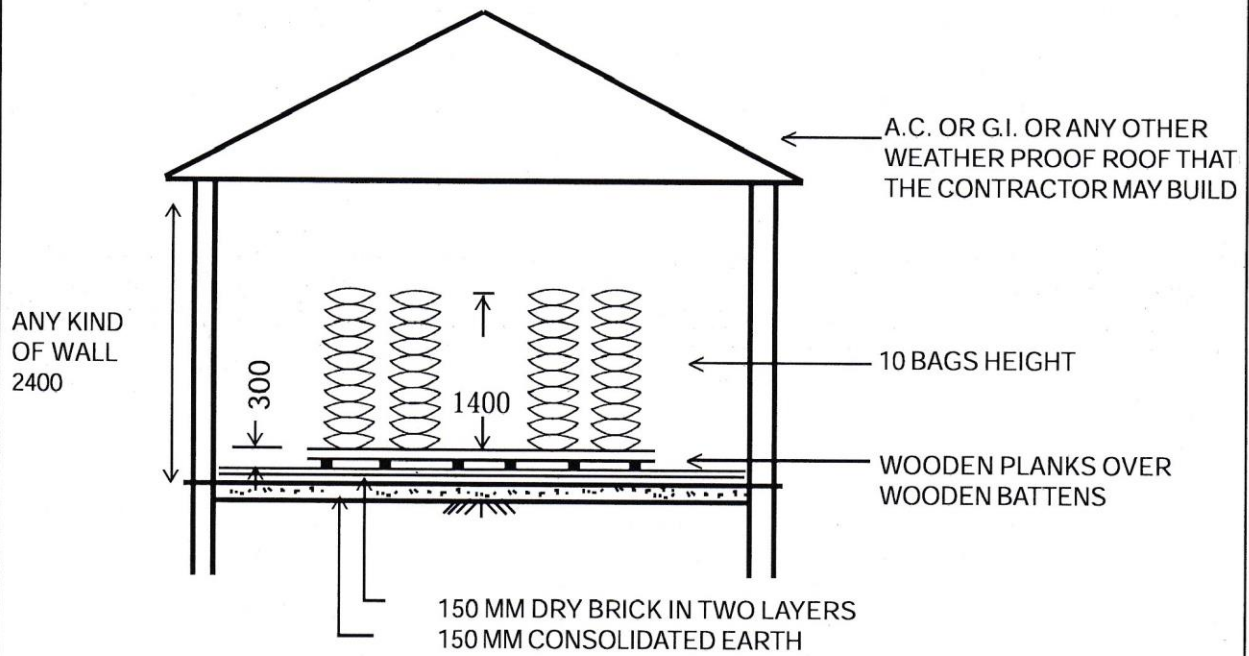
by the order and direction of the AAI in the presence of

Signature

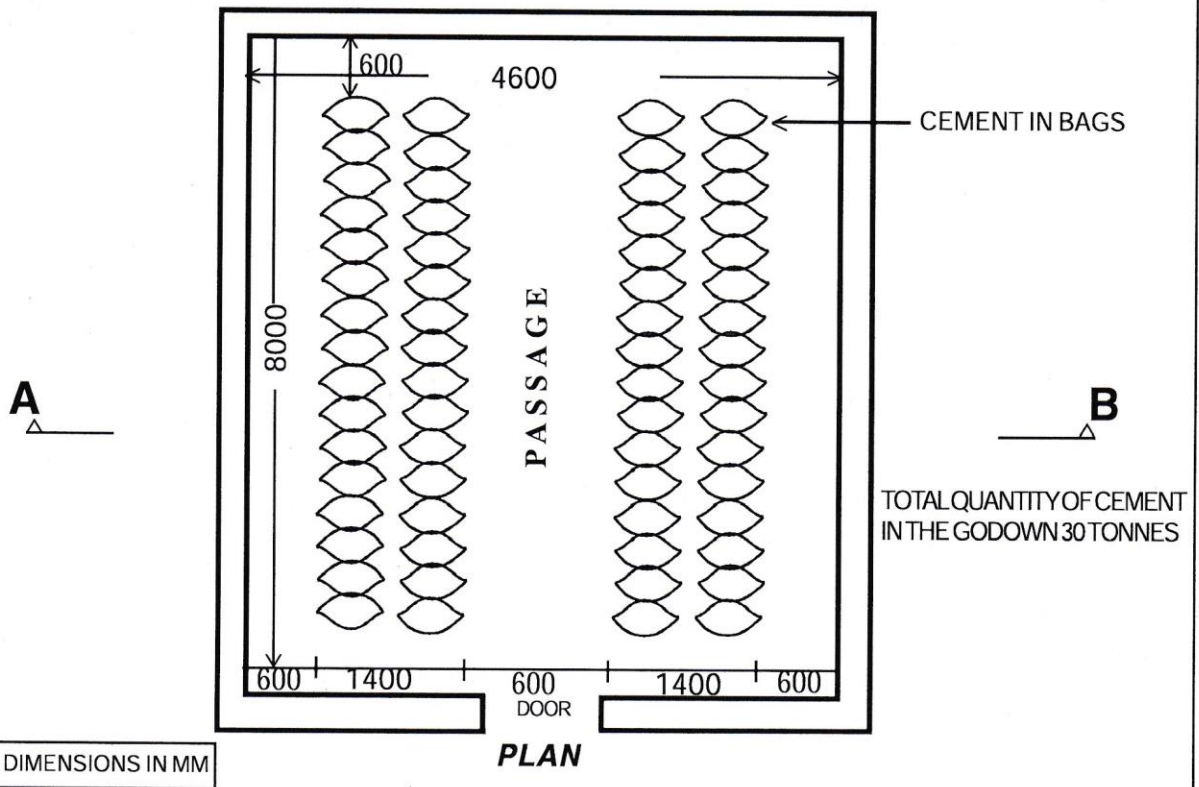
Witness Name

Address

सीमेन्ट गोदाम का रेखाचित्र / SKETCH OF CEMENT GODOWN



SECTION AB



ALL DIMENSIONS IN MM

PLAN

SKETCH OF CEMENT GODOWN

SCHEDULES

SCHEDULE `A`

All rates shall be quoted in the format provided and no other format is acceptable. The price bid has been given as a standard SOQ format at page no. 01 to 06 with the tender document, the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the File name. if the BOQ file is found to be modified by the bidder, the bid will be rejected and EMD shall be forfeited.

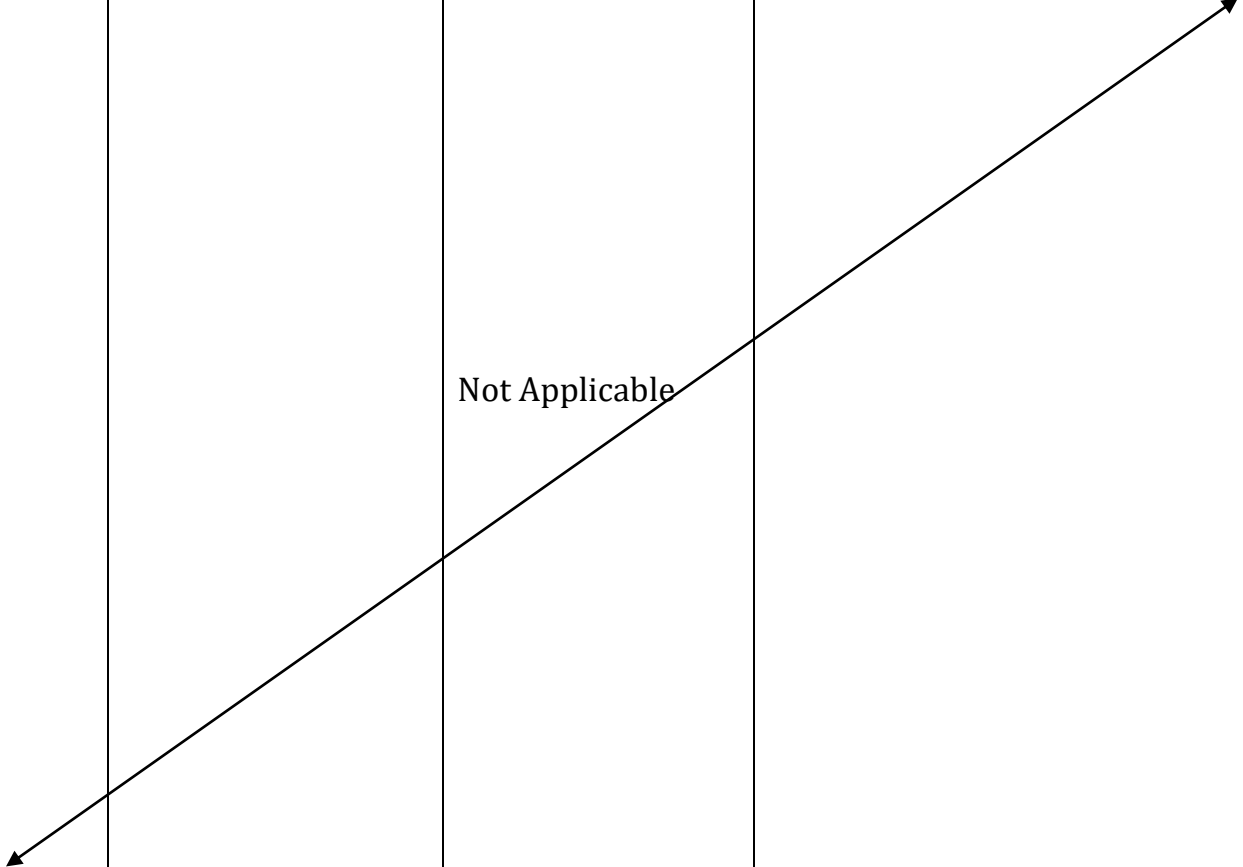
SCHEDULE `B`

Schedule of materials to be issued to the contractor.

Sl. No.	Description of Item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of Issue
1	2	3	4	5
		Not Applicable		

SCHEDULE `C`

Tools and plants to be hired to the contractor.

Sl.No.	Description	Hire charges per day	Place of Issue
1	2	3	4
 Not Applicable			

SCHEDULE `D`

Extra schedule for specific requirements/ documents for the work, if any.-**Not Applicable**

SCHEDULE `E`

Reference to General Condition of contract

Name of work: **Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport**

Estimated cost of work Rs. 38,85,567/- (excluding GST)

Earnest Money Rs. 1,16,567/-

- ii Performance Guarantee: N/A
- iii Security deposit: 10% of contract value of work

SCHEDULE `F`

GENERAL RULES & DIRECTION

Officer inviting tender: SM(Engg.-Civil), AAI, Pakyong Airport, Pakyong, Sikkim - 737106

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3	See below
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Definitions:

Office inviting tender : SM(Engg.-Civil), AAI, Pakyong Airport, Pakyong, Sikkim -737106

2(v) Engineer-in-Charge : Concern AGM/SM (Engg.-C).

2(viii) Accepting Authority : As per AAI's DOP

2(x) Percentage on cost materials & Labour to cover all overheads & Profits :15%

2(xi) Standard schedule of rates :DSR'2023, MoRTH and AAI particular specification with up to date correction slips as on last date of submission of tender & market rates.

2(xii) Department : Engineering

Clause 1

(i)	Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	As per clause 1
(ii)	Maximum allowable period of extension	As per clause 1

Clause 2

	Authority for fixing compensation under Clause 2	As per DOP applicable
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Clause 2A

	Whether Clause 2A shall be applicable	Not Applicable
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Clause 5

	Number of days from the date of issue of letter of acceptance for reckoning date of start	10 days
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Mile Stone(s) as per table given below:

Sl. No	Description of Milestones (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of non achievement of milestone
~~1~~	~~25% of work~~	~~45 days~~	~~Total 0.5% of contract value~~
~~2~~	~~50% of work~~	~~60 days~~	~~Total 1 % of contract value~~
~~3~~	~~75% of work~~	~~90 days~~	~~Total 2 % of contract value~~
4	100% of work	120 days	@ 0.5% of contract value per week of delay(in addition to those mentioned in Sl. no. 1,2 &3) (total maximum 10% of contract value)

Time allowed for execution of work : **90 Days**

Authority to decide:

- i. Extension of time.....As per DOP applicable
- ii.Rescheduling of milestone **GM(Engg.)-AAI**
- iii.Shifting of date of start in case of delay in handing over of site..... **GM(Engg.)-AAI**

Clause 6, 6A

Clause applicable – (6 or 6A): **Clause 6A is Applicable**

Clause 7

Gross work to be done together with net	
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payment/adjustment of advances for material collected, if any since the last such payment for being eligible to interim payment.	5.00 Lakhs
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Clause 10A

Testing equipment to be provided by the contractor at site lab

All the Testing equipments required for conducting test for building (Civil and Electrical works)/ pavement works as per CPWD, AAI specifications, Manufacture's specifications, MoRTH, IRC as applicable or the contractor has to get the material tested as per CPWD specification from Govt. Engineering College or AAI empaneled labs.

Clause 10 B(I)&(II)

	Whether Clause 10B(I) shall be applicable	YES
	Whether Clause 10B(II) shall be applicable	YES
	Interest on Mobilization Advance	8.50% per Annum

Clause 10C:

Applicable / ~~Not Applicable~~

Component of labour expressed as percent value of work: 15%

Clause 10 CA

Materials covered under this clause	Nearest Material (~~other than cement*, reinforcement bars, structural steel & Bitumen~~) for which All India Wholesale Price index is to be followed	Base price and its corresponding period of all the material covered under clause 10CA
1. Cement (OPC/PPC)		Base price for cement, reinforcement steel and structural steel to be determined as issued under authority of DG (Works). CPWD or concerned Zonal Chief Engineer, CPWD as on last date of receipt of tender. In case base price for cement, reinforcement steel, and Structural Steel as to be issued by CPWD is not available concerned ED (Engg.) will be empowered to determine the same.
2. Reinforcement steel bars (TMT)/ Crosion resistant Reinforcement Steel Bar		
3. Structural Steel		
4. Bitumen		Base price for:-

***Note:** Includes cement component used in RMC brought at site from outside approved RMC plants, if any.

Clause 10 CC:- Not applicable

Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	18 Months
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A. For Construction period

S.No.	Relevant component of Material/ Labour for price escalation	Percentage against total value of work
1	Cement component	
2	Labour component	
3	Civil Component of other Construction Materials	
4	E&M (Electrical and Mechanical i/c IT & AS) component of Construction Materials	
5	POL (Diesel) component	
6	Reinforcement steel bars/ TMT bars/ structural steels (including strands and cables) component	
7	Bitumen component	
	Total	100%

*% of components to be decided by NIT approving authority for particular tender.

B. For operation & maintenance period

S.No.	Relevant component of Material/ Labour for price escalation	*Percentage against total value of work
1	Labour component	
2	Civil Component of other Construction Materials	
3	E&M (Electrical and Mechanical i/c IT & AS) component of Construction Materials	
4	Bitumen component	
	Total	100%

*%of components to be decided by NIT approving authority for particular tender.

Clause 11

Specification to be followed for	a) AAI Specifications,	MoRTH
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execution of work	Specification, “CPWD Specification 2019, Vol. I to II with upto date correction slips, or other standard engineering specification as applicable. b) Technical specification.
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Clause 12

12.2 & 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for buildings, pavements and all other works above foundation levels.	15% (Fifteen Percent)
12.5	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	100% (Hundred Percent)
	Overall Deviation i/c extra items, if any.	30% (Thirty Percent)

Clause 16

	Competent Authority for deciding reduced rates	Jt.GM/DGM (Engg.)-AAI
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Clause 17

Contractor Liable for Damages, defects during maintenance period – Twelve (12) months

Clause 18

Mandatory machinery, tools & plants to be deployed by the contractor at site:

To be provided as per NIT and other Machinery required for timely completion of work.

Clause 25

i. Place of Arbitration: Pakyong

Clause 36(1)

Requirement of Technical Representative(s) and recovery rate

Sl. No.	Minimum Qualifications of a Technical Representative	Discipline	Designation (Principal Technical representative)	Minimum Experience (in years)	Number	The rate at which recovery shall be made per day per person from the contractor in the event of not fulfilling the provision of clause 36	
						Figures Rs.	Words
1	Graduate/ Diploma	Civil	Site Supervisor	01 years	01	Rs. 500/-	Five Hundred only per day

- a. ~~Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.~~
- b. ~~Diploma holder with minimum 10 year relevant experience with a reputed construction company can be treated at par with Graduate Engineer for the purpose of such deployment subject to the condition that such diploma holder should not exceed 50% of requirement of degree engineers~~

Clause 37

License Fee for unpaved land – As per Clause 37 of GCC

Clause 41(b)

Integrity Pact applicable

Not Applicable

Clause 42

(i)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates	DSR 2023 (Civil) printed by C.P.W.D with up-to-date correction slips till last date of submission of tender, technical specifications & BOQ.
(ii)	Variations permissible on theoretical quantities	
a.	Cement for works with estimated cost put to tender not more than Rs.5 lakhs.	3% plus/minus
	For works with estimated cost put to tender more than Rs.5 lakhs	2% plus/minus
b.	Steel Reinforcement and structural steel section for each diameter, section and category	2% plus/minus
c.	Bitumen	2.5% plus only & NIL on minus side
d.	All other materials	NA

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl.	Description of items	Rates in figures and words at which recovery
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No.		shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation*
1.	Cement	Not Applicable	Not Permissible
2.	Steel reinforcement	Not Applicable	Not Permissible
3.	Structural Sections	Not Applicable	Not Permissible
4.	Bitumen issued free	Not Applicable	Not Permissible
5.	Bitumen issued at stipulated fixed price	Not Applicable	Not Permissible

* Provided work is considered technically sound. Otherwise work has to be re-executed as per direction of Engineer-in-charge

Clause 48

Escrow Account : Not Applicable.

Annexure to clause 34 (x)

Annexure to clause 34 (x) showing quantities of materials for areas of surfacing to be considered for working out minimum period for which hire charges of road roller are to be recovered.

Sl.No.	Material of surfacing	Quantity or areas
1.	Consolidation of earth subgrade	1860 Sq.m
2.	Consolidation of stones soling 15 cm to 22.5 cm thick	170 Cu.m
3.	Consolidation of brick soling 10 cm to 20 cm thick	230 Cu.m
4.	Consolidation of wearing coat of stone ballast 7.5 cm to 11.5 cm thick	30 Cu.m
5.	Consolidation of wearing coat of brick ballast 10 cm thick	60 Cu.m
6.	Spreading and consolidation of red bajri 6mm	1860 Sq.m
7.	Painting one coat using stone aggregate 12.5mm nominal size	
	(a) @ 1.65 m ³ per 100 m ² and paving bitumen A-90 or S-90@2.25 Kg per m ² or	
	(b) @ 1.50 m ³ per 100 m ² and bitumen emulsion or Road tar @2.25 Kg per m ²	930 Sq.m.
8.	Painting two coats using	
	(a) For first coat, stone aggregate 12.5 mm nominal size	
	(i) @ 1.50 m ³ per 100 m ² and paving bitumen A-90 or S-90@2 Kg per m ² or	
	(i) @ 1.35 m ³ per 100 m ² and bitumen emulsion @2 Kg per m ² 600 Sq.m. or	
	(ii) @ 1.25 m ³ per 100 m ² with roadtar @2.25 Kg per m ²	600 Sq.m.
	(b) For 2nd Coat, stone aggregate 10 mm nominal size 0.9 Cu.m. per 100Sq.m with	
	(i) 1kg of paving bitumen A-90 or S-90 or bitumen emulsion per Sq.m. or	
	(ii) 1.25 Kg. of road tar, per Sq.m. 600 Sq.m.	600Sq.m.

9.	Re-painting with stone aggregate 10 mm nominal size 0.9 Cu.m. per 100 Sq.m. with	
	(i) 1kg of paving bitumen A-90 or S-90 per Sq.m. ;k or	
	(ii)1.25 kg of bitumen emulsion per Sq.m. 1670 Sq.m.	1670 Sq.m.
10.	2 cm premix carpet surfacing using 2.4 m3 of stone aggregate 10 mm nominal size per 100 m2 and binder including tack coat, the binder being hot cut back bitumen or bitumen emulsion in specified quantities.	930 Sq.m
11.	2.5 cm premix carpet surfacing using 3 m3 of stone aggregate 10 mm nominal size per 100 m2and binder including tack coat, the binder being hot cut back bitumen or bitumen emulsion in specified quantities.	930 Sq.m
12.	4 cm thick bitumen concrete surfacing using stone aggregate 3.8 Cu.m. (60%20mm nominal size and 40% 12.5 mm nominal size) per 100m2 and coarse sand 1.9 Cu.m. per 100m2 and hot cut back bitumen over a tack coat of hot cut back bitumen.	460 Sq.m.
13.	5 cm thick bitumen concrete surfacing using stone aggregate 4.8 Cu.m. (60%25 mm nominal size and 40% 20 mm nominal size) per 100m2 and coarse sand 2.4 Cu.m. per 100m2 and hot cut back bitumen over a tack coat of hot cut back bitumen.	370 Sq.m.
14.	6 cm thick bitumen concrete surfacing using stone aggregate 5.8 Cu.m. (60%40 mm nominal size and 40% 25 mm nominal size) per 100m2 and coarse sand 2.9 Cu.m. per 100m2 and hot cut back bitumen over a tack coat of hot cut back bitumen.	280 Sq.m.
15.	7.5 cm thick bitumen concrete surfacing using stone aggregate 7.3 Cu.m. (60%50 mm nominal size and 40% 40 mm nominal size) per 100m2 and coarse sand 3.65 Cu.m. per 100m2 and hot cut back bitumen over a tack coat of hot cut back bitumen.	230 Sq.m.
16.	2.5 cm bitumastic sheet using stone aggregate 1.65 Cu.m. (60% 12.5 mm nominal size 40% 10 mm nominal size) per 100 Sq.m. and coarse sand 1.65 Cu.m. per 100 Sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen.	750 Sq.m.
17.	4 cm bitumastic sheet , using stone aggregate 2.6 Cu.m. (60% 12.5 mm nominal size, 40% 10 mm nominal size) per 100 Sq.m. and coarse sand 2.5 Cu.m. per 100 Sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen.	560 Sq.m.

18.	Laying full grouted surface using stone aggregate 40 mm nominal size 6.10 Cu.m. per 100 Sq.m. with binder, binding with 20 mm to 12.5 mm nominal size stone grit. 1.83 Cu.m. per 100 Sq.m. and seal coat of binder and stone grit 10 mm nominal size, 1.07Cu.m. per 100 Sq.m., the binder being hot bitumen or tar as specified.	460 Sq.m.
19.	Laying full grouted surface using stone aggregate 50 mm nominal size 9.14 Cu.m. per 100 Sq.m. with binder, binding with stone grit 20 mm to 12.5 mm nominal size 1.83 Cu.m. per 100 Sq.m. and seal coat of binder and stone grit 10 mm nominal size, 1.07Cu.m. per 100 Sq.m., the binder being hot bitumen or tar,	370 Sq.m.
20.	4cm. thick premix macadam surfacing using stone aggregate 25 mm nominal size 4.57 Cu.m. per 100 Sq.m. and hot bitumin binding with stone aggregate 12.5 mm nominal size 1.52 Cu.m. per 100 Sq.m. and seal coat of hot bitumen and stone aggregate 10 mm nominal size 1.07 Cu.m. per 100 Sq.m.	560 Sq.m.
21.	5cm. thick premix macadam surfacing using stone aggregate 25 mm nominal size 6.10 Cu.m. per 100 Sq.m. and hot bitumin binding with stone aggregate 12.5 mm nominal size 1.52 Cu.m. per 100 Sq.m. and seal coat of hot bitumen and stone aggregate 10 mm nominal size 1.07 Cu.m. per 100 Sq.m.	460 Sq.m.

SPECIAL CONDITIONS OF CONTRACT

1. GENERAL :-

The following special conditions shall be read in conjunction with general condition of the contract and amendment / corrections thereof. If there are any provisions in these conditions which are at variance with the provisions in the general conditions, the provisions of these special conditions shall take precedence.

2. PERMISSIBLE TIME FOR ATTENDING COMPLAINTS

- a. All day to day maintenance complaints shall be attended by the contractor in totality to the entire satisfaction of the complainant and Engineer-in-charge or his authorized representative within five days of their registration in complaint register or other means of record. However for any emergency work, day to day, operational or providing proper service as water supply, drainage and sewer has to be attended immediately without loss of time. In case the contractor fails to do so the compensation as mentioned in clause 2(d) shall be applicable. The decision of E.I.C or his authorized representative shall be final and binding to the contractor.
- b. All complicated nature of complaints are so certified by the Engineer-in-charge or his authorized representative shall be attended in totality to the entire satisfaction of the Engineer-in-charge or his authorized representative within 7 days of their registration.
- c. In case of major break down as so certified by the Engineer-in-charge or his authorized representative, the complaint shall be attended in totality to the entire satisfaction of the Engineer-in-charge or his authorized representative within 7 days of their registration.
- d. The contractor shall be liable to pay compensation for delay if he fails to meet the conditions as stipulated in para as a, b & c above, @ Rs. 100/-, Rs. 150/-, and Rs.200/- respectively, per complaint per week of delay and proportion thereof.
- e. Justification of non-compliance in respect of the above timeline may be submitted by the agency. However, decision of Engineer-in-charge and his authorized representative is final and binding to the contractor.

3. SCOPE OF WORK:

The scope of work broadly covers the replacement of joint sealants and the repair of damaged PQC panels.

4. Deleted

5. STORES:

- a. In normal circumstances no materials /stores will be issued by AAI for execution of any work.
- b. The contractor shall procure all necessary construction materials, such as cement, steel, sand, polysulphide sealant, backer rods, primer, and other related materials,

well in advance to ensure the uninterrupted execution and timely completion of the work.

- c. The contractor shall carry out regular survey of the local market and in case certain items/stores of approved make are not available locally same have to be arranged by the contractor from other place and nothing extra shall be paid by AAI.
- d. The contractor shall maintain a minimum of 15 days reserve of various stores and materials in the store-yard.

6. TEMPORARY WORKS

6.1 The Tenderer should see the approaches and conditions of the same. If any approach from main road is required at site or existing approach is to be made and maintained for cartage of materials etc. by the Contractor, the same shall be provided, improved and maintained by the Contractor at his own cost.

6.2 Wherever required, the contract shall segregate the site of work from operational area by providing barricade of 9-1/2 feet high with G.I. sheets fixed on wooden ballies or angle iron posts as directed by the Engineer-in-Charge. The sheets on operational area site shall be painted with red and white squares. After completion of the work these shall be removed and taken away by the contractor. Cost of providing the barricades/fencing shall be borne by the contractor and shall be deemed to have included in the rates quoted by him. However in case no segregation of area is required, then decision of the Engineer-in Charge/DGM, Engg. (Civil) will be final and binding and no deduction in this respect will be made from the bills of the contractor. Similarly nothing extra will be payable to the contractor to provide barricades etc.

6.3 All Temporary and ancillary works including enabling works connected with the work shall be responsibility of the Contractor and the price quoted by them shall be deemed to have included the cost of such works which shall be removed by the contractor at his cost, immediately after completion of the work.

6.4 The site for the proposed “**Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.**” be handed over to the contractor .The contractor shall include in his quoted rates, the cost of dismantling/cutting and carrying away the same from the site. Nothing extra shall be payable on this account.

7. MANPOWER:

- a. The contractor shall deploy a minimum of one qualified full time supervisor (having adequate experience) for the supervision of works which are carried out by him.
- b. The supervisor shall inspect the site as per the complaints and work record in the register and get the defects/works rectified completed to the satisfaction of Engineer-in-charge.

8. DEFECTS LIABILITY PERIOD:

The Defects liability period for the whole work is 12 months after certified completion of work.

9. INSPECTION OF SITE AND TESTING : -

a. For the purpose of inspection of site and relevant documents the contractor is required to contact the concerned Senior Manager Engg. (Civil) / Asstt. General Manager Engg (Civil), who shall give reasonable facilities for inspection of the same. The contractor shall be deemed to have satisfied himself as to the nature of the site of work. Local facilities of access, availability of materials and all other matters affecting his prices for the execution and completion of work. He is required to make himself fully acquainted with the nature and scope of work.

b. The Engineer-in-charge or his authorized representative shall have full power to inspect any portion of the work, examine the materials and workmanship at the contractors work or at any other place from where the material is obtained. Acceptance of any material shall in no way relieve the contractor of his responsibility for meeting the requirement of the Specifications.

c. Routine type tests for the various items of material shall be performed at the contractor's works and test certificates furnished, as & when advised by EIC. The contractor shall permit the Engineer-in-charge or his authorized representative to be present during any or all the tests. After notification to the Engineer-in-charge that the work has been completed, the contractor shall make under the direction and in the presence of Engineer-in-charge such tests and inspections as have been specified or as the Engineer-in-charge shall consider necessary to determine whether or not the full intent of requirements of the plans and specifications have been fulfilled. In case the work does not meet the full intent of the specifications, it shall be rectified by the contractor at no extra cost and the contractor shall bear all the expenses for any further tests considered necessary.

d. The various tests as indicated in the CPWD specifications or BIS and particular specification, as considered necessary by the Engineer-in-Charge shall be carried out in the laboratory as approved by the Engineer-in-Charge. The contractor shall bear the entire cost of samples, testing charges, carriage and any other incidental expenditure incurred, thereon. The result shall be final and binding on the contractor.

10. SUFFICIENCY OF TENDER: -

- a. Particulars and data furnished in the various sections of the tender documents need not be taken as complete by themselves. They are intended to serve as rough guidance only for the contractors to quote for the item rate tender. The tender shall, therefore, in their own interest examine the drawings, conditions of contract and specifications of work furnished in the tender documents. They shall also inspect the site and satisfy themselves on their own as to the hydrological, climatic and physical conditions prevailing at site, the nature, extent and practicability of works, all existing and required roads and other means of communications and access to site, royalties

and ferry charges, if any, labour and probable site for labour camps, stores and godown etc.

- b. They shall also obtain for themselves all necessary information as to risks, contingencies and other circumstances which may affect or influence their tender. No extra charges consequent on any insufficient appreciation or otherwise shall be allowed. The contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the schedule of works/items, quantities or in bills of quantities which rates and price shall except as otherwise provided cover all his obligations under the contract and all matters and things necessary for the proper completion of the work.

11. STANDARD OF WORKMANSHIP:

To determine the acceptable standard of workmanship, the contractor shall execute a portion of the items of works as a sample for approval of the Engineer-in-Charge before taking up the actual execution of the particulars item of work. These samples on approval of the Engineer-in-Charge shall be guiding samples for execution of the particulars item of work. Work not conforming to approved samples shall be rejected. The cost of samples is to be borne by the contractor.

12. LAND FOR LABOUR CAMPS:

- i) No labour camp shall normally be permitted on the AAI lands without prior approval of Engineer-in-Charge. On receipt of the written request from the contractor, the use of land for the labour camp may however be allowed by the Engineer-in-Charge in consultation with the Airport director of the Airport duly marking the site and delineating on a plan as per prevailing rules in AAI in this regard.

13. SITE PRECAUTIONS:

- (i) With regard to construction safety measures, the contractor shall adhere to vehicle Indian Standard codes of practice, requirements of provincial Government and local Municipal authorities wherever the provisions of the latter two agencies shall be more stringent than the provisions of the former. When these codes do not exist, the contractor shall adhere to such safety measures as directed by the Engineer-in-charge.
- (ii) The contractor shall segregate the site of work by providing barricade, if necessary. After completion of the work these shall be removed and taken away by the contractor. Cost of providing the barricades/fencing shall be borne by the contractor and shall be deemed to have included in the rates quoted by him. Nothing extra will be payable to the contractor to provide barricades etc.

All temporary and ancillary works including enabling works connected with the work shall be responsibility of the contractor and the price quoted by them shall be deemed to have included the cost of such works which shall be removed by the

contractor at his cost, immediately after completion of the work.

- (iii) The contractor shall be responsible for any damage, resulting from his operations, to existing airport fixtures such as underground cable, contact lights, hard surface areas, water mains, other operational installations, airports roads, etc. The contractor shall restore, replace or repair any such damage to the complete satisfaction of the Engineer-in-charge. The Engineer-in-charge will stake out or inform the contractor as to the location of such underground cables, pipes, ducts, etc. and in this regard, the Engineer-in-charge should be advised in sufficient time ahead as to what areas the contractor may be operating on.
- (iv) The work shall be carried out in phase in such a way that there is least obstruction to the movement of Traffic at the Airport. The phasing shall be decided by the Engineer-in-charge who will be at liberty to change the phasing to suit the requirements. The contractor shall have to abide by these instructions and nothing extra shall be paid to him on this account.
- (v) If at any time there is hindrance in the execution of the work due to any reason whatsoever, the Authority shall not be responsible and shall not entertain any claim whatsoever on any account from the contractor.
- (vi) If on handing over site or at any time thereafter during the execution of the works the contractor considers that any drawing or information necessary for the execution of the work has not been provided he has to inform the Engineer-in-charge in writing giving details.
- (vii) If any time during the execution of work and for any reasons whatsoever there is some difficulty in availability of site, the contractor shall adjust his labour accordingly and no claim shall be entertained on this account.
- (viii) The contractor shall arrange to provide portable lights and markings with the luminous paint to indicate the areas under construction/or repairs as per the direction of Engineer-in-Charge. These lights shall be of the approved colour and capacity and shall be operated throughout the night and during bad weather. In addition to these markings, lights cone markers painted with luminous paints shall also be put.
- (ix) The contractor shall provide suitable temporary diversion arrangement for flow of water in the existing drain pumping and bailing out water from the drain, if required for proper execution of the works at his own cost, as per directions of Engineer-in-Charge.
- (x) The Contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards day and night, speed limit board, red lights and providing barriers. He shall be responsible for all damages and accidents caused due to negligence on his part. No, hindrances shall be caused to traffic during execution of work.

14. BYE - LAWS

The contractor shall comply with all bye-laws and regulations of local and statutory

authorities having jurisdiction over the works and shall be responsible for payment of all fees and other charges and the giving and receiving of all necessary notice and keeping the Engineer-in-Charge informed of the said compliance with the bye-laws, payment made, notices issued and received.

The contractor shall indemnify the AUTHORITY against all claims in respect of patent, design, trademarks of name or other protected rights in respect of any plant, machine work or material used for or in connection with the work or temporary works and from and against all claims, demands, proceedings, cost, charges, and expenses whatever in respect of or in relation thereto.

The contractor shall defend all actions arising from such claims and shall himself pay all royalties, license fees, damages, cost and other charges of all an every sort that may be legally incurred in respect thereof. Environmental and other clearances required shall be obtained by the contractor at his own cost for installation of plants and machinery and other equipment's.

15. CONTRACT DOCUMENT: -

The Contract agreement shall be executed on a non-judicial Stamp paper of the value of Rs. 100/- or as per prevailing practice by court of law and the cost of the Stamp paper shall be borne by the Contractor.

Contractor's tender including the letters of clarifications between the contractor and the AAI prior to the award of contract shall form a part of the contract agreement to the extent they have been accepted by AAI.

16. Scope of work:

The work under this contract will cover the following types of jobs.

- a) The scope of work broadly covers replacement of joints sealants and damaged PQC panels.

17. CO-OPERATION BY CONTRACTORS:

The contractor shall give the work his constant attention to facilitate the progress thereof and shall co-operate with the department in every way possible. He shall have to be present on the work at all times. During his absence, a competent representative who can speak the local language and English and could be able to communicate with the department's representative in Hindi and is authorized to receive order and act for him should be present.

The contractor shall co-operate with any other agency working on the same project, compare plans, specifications and the time schedule and so arrange his work that there will be no interference the contractor shall forward to the engineer-in-charge all correspondence and drawings so exchanged failure to check plans for conditions will render the contractor responsible for bearing the cost of any subsequent change found necessary, contractor should co-ordinate in such a way that on no account there should be any disturbance to the work.

18. CONTRACTOR'S REPRESENTATIVES, AGENTS AND WORKMEN/ WORK WOMEN

- a. The contractor shall employ only Indian Nationals and verify their antecedents

and loyalty before employing them on the work. He shall ensure that no person of doubtful antecedents and nationality is in any way associated with the work.

- b. The contractor shall, on request from the Engineer-in-Charge promptly cease to employ in connection with the contract and replace any person whose continued employment in connection there with is in the opinion of the Engineer-in-charge undesirable. He shall not be re-employed in connection with the contract without the written permission of the Engineer-in-charge.

19. SITE ORGANISATION

Subject to the provisions in the tender document and without prejudice to contractors' liabilities and responsibilities to provide adequate qualified and skilled personnel on the work. Contractor shall deploy site organization and augment the same as decided by the Engineer-in-Charge depending on the exigencies of work. No engineering personnel deployed at site shall be removed from the site without prior approval of the Engineer-in-charge.

20. INSTRUCTIONS AND NOTICES:

- a. Subject as otherwise provided in this contract all notices to be given on behalf of the department and all other actions to be taken on its behalf may be given or taken by the Engineer-in-Charge or any officer, for the time being entrusted with the functions, duties and powers of the Engineer-in-Charge.
- b. All instructions, notices and communication, etc. under the contract shall be given in writing and if sent by registered post to the last known place of above or the business of the contractor, shall be deemed to have been served on the date on which in the ordinary course of post, these would have been delivered to him.
- c. Contractor or his agents shall be in attendance at the site(s) during all working hours and shall superintend the execution of the works with such additional assistance in each trade as the Engineer-in- Charge may consider necessary and orders given to the contractors agent shall be considered to have the same force as if they had been given to the contractor himself.
- d. The Engineer-in-Charge shall communicate or confirm his instructions to the contractor in respect of the execution of work in a "works site order Book maintained at the site office of the Engineer-in-Charge and the contractor or his authorized representative shall confirm receipt of such instructions by signing the relevant entries in this book If required by the contractor, he shall be furnished certified true copy of such

21. WATCH AND WARD & LIGHTING:

The contractor shall provide and maintain at his own expense all lights, fencing and watch & ward when and where necessary or required by the Engineer-in-Charge for the protection of the work or for safety and convenience of those employed on the work or the public.

22. DEPARTMENTAL REPRESENTATION:

The Engineer-in-Charge during his absence on the works shall be represented by one of his subordinates, whose duties in relation to the contractor shall be to ensure that work is performed in conformity with the plans and specifications in all respects. He shall communicate to the contractor the instructions and directions of the Engineer-in-Charge on all questions relating to the work, and the contractor shall comply with such instructions and directions. He shall request the contractor in writing to suspend the performance of any part of the work, if in his judgment the contractor is deviating from

the plans and specifications, in spite of his instructions and contractor shall comply.

23. REDUCED RATE PAYMENT:-

All works have to be carried out strictly as per standard contract specification and the drawings applicable to the contract. Any work found below specification and not as per the drawings is liable to be rejected. However, if any work is below specification but is technically acceptable as per the discretion of the Engineer-in-charge, the same work will be considered for acceptance and will be paid at a reduced rate at the sole discretion of the Engineer-in-charge, and his decision will be final in this respect and no claim of the contractor shall be entertained in this regard at any stage. The decision of the Engineer-in-charge, regarding rejection or acceptance of substandard work and its reduced rate payable shall be beyond the purview of the Arbitration under Clause 25 of this Contract.

24. DAMAGE: -

If the contractor or his working people or servants shall break, deface, injure or destroy any part of building which they may be working on any building road, road Kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post, or wires, trees, grass or grassland, cultivated ground or any pavement contiguous to the premises on which the work of any part of it is being executed or if any damage shall happen to the work while in progress from any cause whatsoever, the contractor shall upon a receipt of a notice in writing in their behalf make the same good at his own expense or in default the Engineer-in-charge may cause the same to be made good by the other workmen and deduct the expense from any sums that may be then or at any time thereafter may become due to the contractor or from his security deposit.

25. BILL OF QUANTITIES: -

The Bill of Quantities shall be read in conjunction with General Conditions of Contract, Special Conditions of Contract, Technical Specifications, Drawings and any other Document forming a part of this tender.

26. PAYMENT: -

- a. The payment due to the contractor shall be made within 30 days of the submission of the bill by the contractor and the measurements shall be verified by the Engineer-in-Charge or his representative within 10 days of submission of the bill.
- b. Running payment shall be made to Contractor once in a three month or as per decision of Engineer-in-charge after deducting security deposit, compensation for delay, other statutory deductions etc, which the contractor may become liable.
- c. Payment will be released on submission of proof of PF & ESI contribution and other relevant records / documents of the applicable month.

- d. The rates quoted shall be inclusive of all taxes duties, works contract tax, packing, insurance, transportation, loading, unloading, handling, incidental charges, local levies etc. but excluding GST. However ESI, PF & Bonus shall be extra which will be reimbursed against documentary evidence.
- e. The bill shall not be entertained if the gross amount of the work done including secured advance payable is less than **Rs. 5.00 Lakhs** except Final Bill. The payment shall be made from the AAI office at Pakyong Airport.

27. INCOME TAX AND LABOUR CESS:

Income Tax deductions shall be made from all payments made to the Contractor as per the rules and regulations in force in accordance with the Income Tax Act prevailing from time to time.

Labour cess as per rules and regulation in force shall be deducted from the bills of contractors and deposited with designated authority.

28. WATER SUPPLY: -

Water used for construction work shall be clean and reasonably free from injurious quantities of deleterious materials such as oils, acids, alkalis, salts and vegetable growth. Generally, potable water shall be used.

If AAI water source is used by the contractor, **1% of gross bill amount of items of BOQ and for similar extra items would be deducted from running/final bills.**

29. POWER SUPPLY: -

No power supply is available with Airports Authority of India at Pakyong Airport. The Contractor shall make his own arrangement of power for construction as well as for general lighting at his own cost and make necessary payments directly to the Department/ Authority concerned. The Contractor shall lay necessary wiring and arrange for main switch and meter at his own cost and remove, the same on completion / termination of the contract. In case, agency is provided with power connection from AAI, bill would be raised against the same & necessary payment would be made by him. Otherwise, the same would be recovered from his running account bills.

- (a) The rates for different items of works shall be for all heights and depths of the building except where otherwise specified in the items of work or in special conditions appended with the tender.
- (b) Wherever any reference to any Indian Standard specification occurs in the documents relating to the contract the same shall be inclusive of all amendments issued thereto or revisions thereof if any, upto the date of receipt of tenders

- (c) Unless otherwise specified in the schedule of quantities the rates for all items of the work shall be considered as inclusive of pumping out or bailing out-water if required for which no extra payment will be made. This will include water encountered from any source such as rains, floods, subsoil, and water table being high due to any other cause whatsoever.
- (d) The rate for all items in which the use of cement is involved is inclusive of charges for curing.
- (e) The foundation trenches shall be kept free from water while all the works below ground level are in progress.
- (f) The contractor shall maintain in perfect condition all works executed till the completion of the entire work allotted to him. Where phased delivery is contemplated the provisions mentioned above will apply to each phase.
- (g) If the contractor is found to violate any security regulation, he shall be blacklisted in addition to being subjected to other legal proceedings.

30. ROYALTY OF MATERIALS:-

The contractor shall at his own expense, provide all materials required for the works. The contractor shall deposit royalty and obtain necessary permit for collection of stone, sand, red bajri, kankar, earth, manure etc. from the local authority in the matter and will abide by the notification issued by Central Govt. / State Government / Local State Authorities as applicable from time to time in this regard. The contractor is also bound to allow deduction from his bills any difference in statutory taxes / royalty and penalty proposed by Local State Authorities to AAI till finalization of settlement of all demands in this regard by Central / State Govt.”.(ii) This will also be applicable to forest produce.

31. APPARTITIONING OF WORK : -

The Airport Authority of India reserves the right to appartition the work at different levels amongst not more than two contractors, by negotiations if necessary.

32. DAMAGE TO PERSON AND PROPERTY : -

The Contractor shall indemnify and keep indemnified AAI against all losses and claims for injuries or damage to any person or any property whatsoever, which may arise out of or in consequence of the construction and maintenance of the works by them and against all claims, demands, and proceedings of or in relation thereof.

33. THIRD PARTY INSURANCE: -

Before commencing the execution of the works the contractor (But without limiting his obligations and responsibilities) shall insure against any damage – loss or injury which may occur to any property (including that of the Employer) or to any person, including any employer by or arising out of the execution of the works or temporary works or in carrying out of the contract.

MINIMUM AMOUNT OF THIRD PARTY INSURANCE: -

- i) Such insurance shall be effected with any subsidiary of the General Insurance Company of India and for at least the **minimum amount of Rs. 1 Lakh** with unlimited number of occurrences. Whenever required the contractor shall produce to the AAI the policy or policies of Insurance and the receipts for payments of the premiums.
- ii) If the Contractor could not effect a comprehensive insurance cover against risks which he may be required to effect under the terms of this clause, then he shall give his attention to get the best insurance cover available and even in case of effecting a wider insurance cover than the one which the subsidiary of the General Insurance Company could offer such an Insurance is ought to be done after the AAI's approval, by or through the subsidiary of the General Insurance Company.

34. CONSTRUCTION EQUIPMENT

- 34.1 The contractor shall arrange at his own cost the mandatory machines, tools & plants in good working conditions at the site. However to complete the work in a period as specified in the tender document, the contractor shall augment extra machineries, if required and asked for by Engineer-in-charge.
- 34.2 Any other plants and machineries, apparatus, equipments and tools required for completing the work shall also, be provided by the contractor at his own cost at the time of need as decided and directed by EIC.
- 34.3 Necessary manpower for handling, operating and maintaining the above mentioned equipments and machineries shall be provided, by the contractor at his own cost.
- 34.4 Necessary P.O.L required for running the equipments and machineries deployed for the work shall be provided by the contractor at his own cost. In the event of any breakdown of the equipments and machineries, the contractor shall take prompt remedial measures to fit them back in condition in the shortest possible time and nothing extra shall be paid for it. To minimize breakdown period, necessary spare parts shall be kept readily available at site by the contractor at his own cost.

- 35. Agency should submit the copies of purchase vouchers of materials, as desired by E-I-C, incorporated in the works.

- 36. Delet

37. RESTRICTED WORKING HOURS:

In case normal working hours are reduced due to operational / security requirement etc. no extra payment shall be admissible to the contractor but suitable extension of time shall be granted subject to verification of proper records of such restricted working hours maintained at site.

38. SAFETY DEVICES TO FIELD ENGINEERS / TECHNICIANS / WORKERS AT SITE.

The agency is also required to provide safety devices to the manpower deployed on site as & when necessary.

39. ARRANGEMENT TO BE MADE BY THE CONTRACTOR AT SITE

Necessary registers and stationeries required for entering data and test results shall be provided by the contractor at his own cost as directed by the Engineer-in-charge.

40. DIFFERENCE BETWEEN FIRST LOWEST BIDDER AND SECOND LOWEST BIDDER.

Final bill will be worked out at the accepted tender rates and also with quoted rates of second lowest. The amount of final bill to be paid will be restricted to the lower of the two.

41. Contractor is liable to pay a **yearly bonus as per latest govt. rules or 8.33%** of annual wages whichever is higher as per Bonus Act, 2015, Amended. Any changes as per statutory rules are to be complied for. The bonus actually paid to the eligible employees of the agency being employed under this contract would be reimbursed on production of documentary evidences to the effect that bonus has been rightfully paid to the beneficiary and upon satisfaction of EIC.
42. The wage considered for estimation purpose for items for manpower supply of Schedule-A, are as below: Unskilled - Rs. 556.00, Semi-Skilled - Rs. 650.00, Skilled - Rs. 781.00 (per day). However, in case of change made in minimum wages as per Govt. notification, the difference of basic wages only would be reimbursed to agency upon production of documentary evidences of minimum wages being paid to the manpower provided under these scheduled items.
43. The payment of wages to be made to the manpower deployed under the items for Job for manpower supply would be not less than the minimum prevailing wages as per Govt. of India circular.
44. **Vouchers**
Agency should submit the copies of purchase vouchers of bitumen, cement, paint, and any other material, as desired by Engineer-In-Charge, incorporated in the work.
45. **Security Clearance from BCAS:**
 - 45.1 **As the work is to be carried out inside the Airport/site office premises, necessary security/operational area entry pass for employees and transport shall be arranged by contractor. In this connection, Police verification of the personnel engaged by the contractor for the work is mandatory before issuing the passes. AAI will not pay any extra cost for these formalities.**
 - 45.2 **The contractor shall fulfil the following requirements which are mandatory for obtaining Aerodrome Entry Permits (AEPs) prior to the commencement of operations at Pakyong Airport.**
 - 45.3 **The contractor shall obtain Security clearance (through E-Sahaj portal of Govt.of India/link via BCAS website) for the company from Bureau of Civil Aviation Security (BCAS).**
 - 45.4 **The contractor shall obtain the approval of Entry's Security Programme from BCAS.**
 - 45.5 **The Contractor shall undertake Police Background checks of the employees recruited and obtain Police Verification Certificate (PVC) from concerned Police Commissioner in respect of their employees (PVC obtained by the individual prior to the employment is not valid). Background checks shall be conducted at all the places of the applicant's residence in the previous one year and of his criminal history, if any. A valid Indian**

Passport issued in the previous 05 years shall be considered in lieu of background check, provided there is no change in the residential address.

45.6 After obtaining Police Verification Certificate, the contractor shall ensure that their employees shall attend one-day AVSEC Awareness Training arranged by the airport operator.

45.7 Further the contractor is required to submit relevant documents to BCAS after submitting e-Sahaj application for initiating Provisional Security Clearance to the entry as per Addendum Order No. 01/2019 dated 08.09.2020.

TECHNICAL SPECIFICATIONS

1.00 PREAMBLE

1.01 These technical specifications shall be read in conjunction with the various other documents forming the contract, namely Notice Inviting Tender & Instructions to Tenderers, Conditions of Contract, Special Conditions of Contract, Bill of Quantities and other related documents, together with any addenda thereto issued.

2.0 SCOPE OF WORK

2.01 The scope of work broadly covers replacement of joints sealants and damaged PQC panels.

3.00 OBLIGATIONS OF THE CONTRACTOR

3.01 In order to ensure that the contract work is executed strictly in accordance with this Agreement and in time, the Contractor shall have the following obligations at no extra cost to the Engineer-in-Charge in addition to such other obligations and responsibilities as have been specified elsewhere in this Contract.

- i) Provision of adequate number of constructional Plant and machinery for mechanized system of construction, handling and transportation ;
- ii) Provision of special magazine at the site for storage of explosives, if necessary, for which required license shall be obtained from the concerned authorities;
- iii) Fulfil all the Contractor's labour regulations i.e fair wages, display of notices regarding wages, payment of wages, labour records, attendance cards-cum-wage slips, labour welfare etc. as per standard practices and norms applicable at site;

3.02 All fossils, gold, silver, oil and other minerals, precious stones, coins, article of value, of antiquity and structures and other remains/things of geological or archaeological interest discovered on the site of the works shall be notified by the Contractor immediately to the Engineer-in-Charge for onward information to the concerned authorities.

3.03 The Contractor shall take all reasonable precaution to prevent his workmen or any other person from removing or damaging any such article(s) or thing(s) and protect the same till the removal as per the instructions of the Engineer-in-Charge.

3.04 Clearance of the site of all rubbish, debris, vats, tanks, materials, temporary structures, plant and machinery, scaffoldings and filling of all pits, excavation and hand over the site in a tidy and cleaned condition.

3.05 Opening up of covered work if instructed by the Engineer, if such covering was done before inspection by the Engineer or without permission/approval from the Engineer-in-Charge.

3.06 During the construction of the airfield pavement, the light foundations will have to be provided as per the drawings, specifications and directions of the Engineer-in-Charge at such appropriate stage as decided by him. The Contractor shall obtain the approval of the Engineer-in-Charge the work plan for placing the light foundation at their designated places. The rest of the pavement will be constructed around these foundations in place without causing any damage to the foundation. The rate quoted shall include all these requirements. During execution of works for providing shoulders, rolling operation should be conducted with at most care so as not to damage the existing light fittings. Excavation and compaction around light fittings shall be done manually.

4.00 GENERAL

4.01 The works will be executed as indicated in the nomenclature of each item and technical specifications as given hereunder as made applicable to this contract.

4.02 In the absence of any definite provision in the technical specifications contained herein, reference may be made to the latest CPWD, MOST, IRC, ICAO Specifications and IS codes, in that order. Wherever these are silent, the construction and completion of the works shall conform to sound

engineering practice and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer-in-Charge shall be final and binding on the Contractor.

4.03 In addition, the abbreviations CPWD, IRC, MOST, IS, BS, ICAO ASTM, AASHTO shall be considered to have the following meaning:-

CPWD	:	Central Public Works Department
IRC	:	Indian Road Congress
MOST	:	Ministry of Shipping & Transport (Road Wing) Government of India
IS	:	Indian Standard of the Bureau of Indian Standards.
BS	:	British Standard of the British Standard
ICAO	:	International Civil Aviation Organisation
ASTM	:	American Standards of the American Society of Testing Materials
AASHTO	:	American Association of State Highway and Transportation Officials.

All the codes of practice, standards and specifications applicable shall be the latest editions with upto date correction slips etc. or as directed by the Engineer-in-Charge.

5.00 TESTING

5.01 It is made clear that cost of testing, cost of material for testing, all field apparatus required for sampling and testing as per CPWD/IS codes and manpower incident to such testing will be provided along with necessary transport arrangement to and fro to the approved testing agency or laboratory by the Contractor during the construction phase of the work and defect liability period. The expenditure in this regard shall be borne by the Contractor and nothing extra shall be payable by AAI on this account. Field laboratory with all the required apparatus and staffs shall be established by the Contractor at site of work at his cost for carrying out field tests at stipulated frequencies.

6.00 SAMPLING AND TESTING

6.01 The Contractor or his accredited representative shall be present during sampling/testing and signify his concurrence for sampling/ testing carried out by signing the test records. The Contractor shall be liable of all actions consequent to the test and their results as if he himself attended to the tests. The Contractor is duly advised to be present himself for sampling and testing or in the alternative, have fully qualified duly authorized Engineer for this purpose.

7.0 GENERAL LIST OF CODES, STANDARDS AND SPECIFICATIONS ADOPTED IN THE TENDER DOCUMENTS.

7.01 The following IRC standards and IS, ASTM, British Standards, Codes and CPWD Specifications have generally been adopted in the tender documents. This list however does not limit the use of any other relevant code or standards by the Engineer-in-charge solely at his discretion either referred to in the tender documents or not, to achieve the desired quality of work. All the codes practice, standards and specifications applicable shall be the latest edition with all correction slips, etc, or as directed by the Engineer-in-Charge.

NUMBER/DESIGNATION	TITLE
IRC SPECIFICATION	
IRC:10	Recommended Practice for Borrowpits for Road Embankment Constructed by Manual Operation.
INDIAN STANDARDS	
IS:1786	Specification of high strength deformed steel

	and wires for concrete reinforcement.
IS:278	Specification of galvanized steel barbed wire for fencing.
IS:838	Coarse and fine aggregates from natural sources for concrete.
IS:456	Code of practice for plain and reinforced concrete.
IS:460 (Part I to III)	Testing Sieves
IS:516	Methods of test for strength of concrete.
IS:1124	Method of test for water absorption, apparent specific gravity and porosity of Natural Building Stone.
IS:1199	Methods of sampling and analysis of concrete.
IS:2386	Methods of test for aggregate for concrete:-
(Part –I)	Particle size and shape.
(Part –II)	Estimation of deleterious materials and organic impurities.
(Part –III)	Specific gravity, density, voids, absorption and bulking.
(Part –IV)	Mechanical Properties.
(Part –V)	Soundness
(Part –VI)	Measuring mortar making properties of fine aggregates.
(Part –VII)	Alkali-Aggregate reactivity
(Part –VIII)	Petrography Examination
IS:2720	Methods of tests for soils:
(Part –II)	Determination of water content
(Part-III) (Section-I)	Determination of specific gravity, section I fine grained soils.
(Part-III) (Section-II)	Determination of specific gravity, fine medium and coarse grained soils.
Part-IV	Grain size analysis

NUMBER/DESIGNATION	TITLE
Part-V	Determination of liquid and plastic limit.
Part-VII	Determination of water content dry density relation using light compaction.
Part-VIII	Determination of water content dry density relation using heavy compaction.
Part-XVI	Laboratory determination of CBR.
Part-XXVII	Determination of total soluble sulphate.
Part-XXVIII	Determination of dry density of soils in place by core cutter method.
Part XXIX	Determination of dry density of soils in place by core cutter method.
IS:5640	Method of determining the aggregate impact

	value of soft coarse aggregate.
IS:6241	Method of test for determination of stripping value of road aggregates.
IS:8112	43 grade ordinary Portland Cement.
BS:5212, Part-I, 1990	Two parts polysulphide based sealants.
ASTM/BS STANDARDS/SPECIFICATION	
ASTM:D-1559	Test for resistance to plastic flow of bituminous mixtures using Marshall apparatus.
ASTM:D-2172	Extraction quantitative, of bitumen from bituminous paving mixtures.
ASTM:E-11-39	Sieves for testing purpose "Wire Cloth sieve round hole and square" hole plate screen of Sieves.
BS:410	Test Sieves.
MOST Specification	"Specification for Road and Bridge Works" fourth revision reprinted in September, 2004. Issued by Ministry of Surface Transport (Roads Wing) and published by Indian Roads Congress.
ICAO's Annex 14	Annexure 14 of the convention on International Civil Aviation.

Item No. 02

Providing and laying Pavement Quality Concrete (PQC) produced in a batching and mixing plant having a Characteristic flexural strength i.e. flexural strength of 4.1 MPa at 28 days using Ordinary Portland cement of 43/53 grade or Portland Pozzolana Cement or Portland Slag cement conforming as per relevant IS codes, to be mixed at site, with 0.5% Super plasticizer by mass of cementitious material, fine aggregate, graded stone aggregates of 40 mm nominal size in appropriate proportion as per specification and job mix formula, laid in panels as per drawings/design as approved by the Engineer-In-Charge using Slip Form Paver or Fixed form paver or Manual Method including anti friction layer, joint filler board, making necessary provision for expansion, dummy and construction joint including filling with Polysulphide sealant of approved make, curing and making profile, complete as per direction of Engineer-in-Charge and specifications. The item for execution shall include all operations making pavement for intended use but not limited to following:(i) Polyethylene sheet (White in color) of thickness 400 micron conforming to IS: 2508 with 6mm thick fine sand layer.(ii) Providing and laying in position for expansion joint, 25mm thick pre-cut Synthetic joint filler board of approved make conforming to IS:1838(part 3)-2011, 45 mm from top (to be removed at the time of filling of Polysulphide sealant).(iii) Mechanically cutting dummy joints 3mm wide x 1/3rd thickness of slab which is subsequently widened to 10mm for the top 25mm depth and construction joints 10mm wide x 25mm deep as per specification. (iv) Providing and laying in position Polysulphide sealant of approved make conforming to BS-5212-1990 or IS: 11433-1995 in expansion/ construction / dummy joints including rounding off edges, applying 2 coats of approved primer compatible with the brand of Polysulphide and preparing the surface and applying masking tape along the edge of joint to prevent accidental spillage of sealant on top surface and to give neat finish to the sealant and removing the masking tape after application of sealant etc. as per the details below:

- (a) Expansion Joints of size 25 mm wide and 10 mm deep over 30mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications.
- (b) Construction Joints of size 10 mm wide and 10 mm deep over 12mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications.
- (c) Dummy Joints of size 10 mm wide and 10 mm deep over 12 mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications.
- (v) Making profile as per DGCA CAR, panel drawing showing dummy, construction, expansion joints location.

Note:

- (i) Areas inaccessible to paving equipment shall be constructed by manual/hand guided method. Areas in which manual/hand guided methods of construction become indispensable shall be got approved by the Engineer-in-Charge in writing in advance.
- (ii) The quantity of cement, type of cement and super plasticizer for one Cum. of finished concrete specified are for tendering purpose only. The contractor shall quote his rates assuming quantity of OPC cement as 360 Kg/Cum or 400 Kg of Portland Pozzolana Cement/ Portland Slag cement. In addition, if the actual quantity of cement & super plasticizer required as per laboratory mix design varies from the quantity assumed above, necessary cost adjustment for deviation in the quantity of cement and super plasticizer as per mix design, if any, shall be done as per the rate of cement and super plasticizer in actual supply voucher from manufacturer/authorized dealer at the time of execution. In the case of authorized distributor, the rate may be authenticated by the manufacturer. The rate of cement and super plasticizer exclusive of GST shall only be considered for payment.

1.0 CEMENT

- a) Ordinary Portland Cement 43 Grade conforming to IS: 269-2015.
 - b) Ordinary Portland cement 53 grade conforming to IS: 269-2015.
- Following extra precautions shall be taken:
- ii) Proper mix design may be done to account for shrinkage/microcracking due to higher heat of hydration.
 - iii) The temperature of aggregate, water and cement should be maintained at the lowest practical levels, so that temperature of concrete is below 30⁰ C at the time of placement.
 - iv) Aggressive curing of concrete to avoid cracking shall be done keeping surface continuously wet by providing wet hessian cloth etc, before continuous curing i.e. after 24 hours of laying.
 - v) Use of 53 grades OPC shall be avoided in case of hot weather concreting.
 - c) Factory Produced Portland Pozzolana Cement (Flyash based) conforming to IS: 489 (Part-I)-2015.
 - d) Portland Slag Cement conforming to IS:455-2015.
 - e) Sulphate Resisting Portland cement conforming to IS: 12330 (If soluble salt like sulphate in subgrade is more than 0.5%).

Note:

- i) High alumina cement is not permitted to be used.

ii) Agency should submit copies of purchase voucher to the Engineer-in- Charge and original to be produced for verification.

1.0.1 Supply of Cement shall be obtained either in bulk form or as per clause 3.1.2.5 of CPWD specifications Vol-I, 2019. Tests on cement shall be done as per clause 16.1 under quality control and nothing extra shall be paid on this account.

1.0.2 SUPER PLASTICIZER

Super Plasticizer conforming to IS: 9103 may be used to improve the workability of concrete.

1.1 WATER

Water for mixing and curing concrete will ordinarily be obtained from a source which is used for drinking. Where water from such a source is not available, the contractor shall ensure that it is clean and free from injurious quantities of acid, alkalies, salts, alcohol, silt, oil, organic matter etc. and conforms to IS:

456 (latest revision). In order to ensure that the water does not contain impurities in injurious proportions, the contractor shall get the water tested in one of the approved testing laboratories at his own expense. Nothing extra shall be paid on this account. In such cases, the provisions laid down in clause 5.4 of IS: 456 (latest revision) shall be binding. Test on water should be repeated whenever there is change in the source.

1.2 COARSE AGGREGATES

These shall be natural materials conforming to IS: 383 (latest revision) but with Los Angeles Abrasion value not more than 30 per cent. These shall be crushed or broken from hard stones obtained from approved quarry. These shall be clean, strong, durable of fairly cubical shape and free from soft, friable, thin elongated and laminated/ disintegrated pieces. These shall also be free from dirt, organic, deleterious and any other foreign matter and adherent coatings and shall satisfy the physical requirement laid down in clause 16.1 under quality control. Nothing extra shall be paid for testing of material. Manufactured aggregate shall also be allowed subject to meeting the requirement of IS 383.

- 1.2.1 Some aggregates may contain ferrous sulfides and iron oxides which can cause stains on exposed concrete surfaces. In areas where staining has been a problem or is suspected, the Engineer should verify that producers and aggregate suppliers have taken steps to prevent the inclusion of any ferrous sulfides or iron oxides in aggregate to be used in the project.

If there is a concern that these may exist, an indicator to identify staining particles is to immerse the aggregate in a lime slurry. If staining particles are present, a blue-green gelatinous precipitate will form within 5 to 10 minutes, rapidly changing to a brown color on exposure to air and light. The reaction should be complete in 30 minutes. If no brown gelatinous precipitate forms, there is little chance of reaction in concrete.

1.3 FINE AGGREGATE

The fine aggregate shall be coarse sand consisting of clean natural sand or crushed stone sand or a combination of the two and shall conform to IS: 383 and clause 3.3.4 of IRC 15-2017 and shall satisfy the physical requirement laid down in clause 16.1 under quality control. Nothing extra shall be paid for testing of material. Fine aggregate shall be free from soft particles, clay, shale, loam, cemented particles, mica, organic and other foreign matter. Manufactured fine aggregate shall also be allowed subject to meeting the requirement of IS 383.

1.4 COMBINED GRADING OF AGGREGATES

The grading of all aggregates (coarse and fine aggregates) to be used on specific job shall be determined in the material testing laboratory (approved by AAI/Govt. Institutions i.e., IITs, NITs, Govt. Engg. Colleges) or in-house by Department of Structure as directed by the Engineer-In-Charge. The coarse and fine aggregates shall be mixed in suitable proportions so that the grading of the mixed aggregates shall be in the range indicated in the table below:

I.S. Sieve Size	%age passing by weight
45 mm	100
22.4 mm	55-60
11.2 mm	45-50
5.6 mm	35-40
2.8 mm	30-35
1.4 mm	20-25
710 micron	15-20
355 micron	8 -14
180 micron	0-5

If the combined aggregate grading calculated thereof does not meet the specified grading requirements, appropriate adjustment shall be made in the proportions of different aggregate fractions. Any deviation to the overall grading shall be made only with the specific approval of Engineer-In-Charge and nothing extra shall be paid for such adjustment. Design of mix shall be redone if there is a change in the source of coarse or fine aggregates or type of cement as per Para

1.1. Nothing extra shall be paid for such testing and designing.

1.6 ANTI-FRICTION LAYER

- 1.6.1 Anti-friction layer shall be provided between the concrete slab and the DRLC surface. Before placing the anti-friction layer, the sub-base shall be swept clean of all the extraneous materials and a layer of 6mm fine sand shall be laid. On sand layer, polyethylene sheet (white in colour) of thickness 400 micron conforming to IS: 2508, with overlaps of not less than 300mm longitudinally and 300mm transversely shall be laid. Any damaged sheeting shall be replaced at the contractor's expenses. The anti-friction layer shall be nailed to the lower layer with concrete nails.

1.6.2 COMPOSITION

1.6.2.1 Natural Compound

- 1.6.2.1.1 The compound used for manufacturing natural film shall consist only of polyethylene resins complying with 1.7.2.1.2. Any additives, such as anti-oxidants, to impart additional qualities to the films, such as slip, may be added in quantity to the resins, as agreed to between the supplier and the purchaser.

- 1.6.2.1.2 The polymers for the natural film shall have a melt flow index between 0.10 to 15.0 g/10 min. The density for the compound from which the film is made shall be between 0.913 to 0.923 g/ml at 27°C (0.915 to 0.925 g/ml at 23°C).
- 1.6.3 **Appearance** - The film shall be uniform in colour, texture and finish. The material shall be substantially free from pin-holes and undispersed raw materials, streaks and particles of foreign matter. There shall be no other visible defects, such as holes, tears or blisters. The edges shall be free from nicks and cuts visible to unaided eye. The natural films shall be free from pin-holes.
- 1.6.4 **Odour** - The film shall be free from any objectionable odour.
- 1.6.5 **Density** - The density of the film, when determined in accordance with A-1 of IS 2508 or Method 5 of IS: 8543 (Part 1/Set 2)-1979 shall be as prescribed in 1.7.2.1.2. However, in case of dispute, the latter shall be the preferred method.
- 1.6.6 **Melt Flow Index** - The melt flow index of the film when determined in accordance with 7 of IS: 2530-19637 shall be as prescribed in 1.7.2.1.2.
- 1.6.7 **Tensile Strength at Break** - The tensile strength at break when tested as prescribed in A-4 of IS 2508 for all thicknesses of polyethylene film shall be not less than 11.77 MN/m^2 (120 kgf/ cm^2) in lengthwise direction and 8.33 MN/m^2 (25 kgf / cm^2) in crosswise direction.

2.0 HANDLING AND STORAGE OF MATERIALS

2.1 CEMENT

The Contractor shall provide adequate storage facilities to prevent deterioration of cement during storage due to climate and other causes. Wherever bulk storage containers are used, their capacity should be sufficient to cater to the requirement at site. The containers shall be cleaned at least once every 3 months. Cement remaining in stores for more than one and half month from the date of manufacture must be retested before use and to be rejected, if it fails to conform to any of the requirements of the specifications.

2.2 AGGREGATES

- a) Stock piles shall be made immediately on receipt of aggregates at site of work. Aggregates shall be stacked separately according to the nominal sizes of coarse aggregates. For fine aggregates, separate stacks shall be made.
- b) Aggregates shall be stacked on a hard surface so as to exclude the possibility of soil or grass being mixed up. When stacked in close proximity, the stock piles shall be separated by bulk heads to prevent the different sizes of aggregates from mixing together. Special care shall be taken to clean and wash the last layer of aggregates in contact with ground surface before use.

- c) Before batching, the aggregates shall have been stock piled for at least 24 hours to allow for draining of water, if any. The Contractor shall make adequate provision for stock piling aggregates to the extent sufficient to meet the needs of the work taking into account the availability of supplies and rates of delivery etc. and nothing extra shall be paid for necessary double handling and transport of materials from stock piles to mixing plant etc.
- d) Grading of coarse and fine aggregate shall be checked as per clause 16.1 under quality control to ensure that the suppliers are maintaining the uniform grading as approved for samples used in the mix design.

3.0 MIX DESIGN

- 3.1** The concrete mix shall be got designed by the Contractor in the material testing laboratory (approved by AAI/Govt. institutions i.e., IITs, NITs, Govt. Engg. Colleges) or in-house by Department of Structure as directed by the Engineer-In-Charge so as to obtain the target average flexural strength. The margin over characteristic strength is as below:

Characteristic flexural strength (beam) at 28 days, (f_{cr})	= 4.1 MPa
Normal variate for the desired confidence level, (Z)	= 1.65
Assumed value of Standard Deviation, (s)	= 0.4 MPa
Target average flexural strength at 28 days, f'_{cr}	= $f_{cr} + 1.65 \times s$
	= $4.1 + 1.65 \times 0.4$
	= 4.76 MPa
	Say, 4.8 MPa

Water cementitious ratio by weight = 0.45 (Maximum)

Slump = 25 ± 15 mm for slip/fixed form paver
= 40 ± 10 mm for manual method

Any change in the source of materials or mix proportions including change of brand of cement proposed by the Contractor during the course of work shall be assessed by making laboratory trial mixes and same shall be incorporated in work with written approval of concerned Engineer-In-Charge.

In case services of Department of Structure, AAI is utilized for mix design and other testing if any, contractor shall be charged extra as per prevalent charges and same shall be deducted from contractor bills. Contractor quoted rates shall be deemed to be inclusive of same and nothing extra shall be payable.

- 3.2** The quantity of cement, type of cement and super plasticizer for one Cum. of finished concrete specified in the item are for tendering purpose only. Necessary cost adjustment shall be done as per formula laid down below:

3.2.1 OPC 43/53 grade of Cement:

If the actual quantity of OPC 43/53 grade of Cement required as per laboratory mix design varies from 360 Kg/Cum, necessary cost adjustment for deviation in the quantity of OPC 43/53 grade of Cement shall be done as per the rate of OPC 43/53 grade of Cement in actual supply voucher from manufacturer/authorized dealer at the time of execution. In the case of authorized dealer the rate may be authenticated by the manufacturer. The rate of OPC 43/53 grade of Cement exclusive of GST shall only be considered for payment. In no case quantity of OPC 43/53 grade of cement shall fall below 330 Kg/Cum. Extra payable/deductible rate shall be calculated in following manner:

Cost of OPC 43/53 grade of Cement above/below 360Kg/Cum : 'X'

Add 1% Water Charges on 'X'

Add 15% CP & OH on total adding 1% water charges

Add 1% labour Cess on total after adding 15% CP & OH : Say 'A'

3.2.2 Portland Pozzolana Cement or Portland Slag cement:

If the actual quantity of Portland Pozzolana Cement or Portland Slag cement required as per laboratory mix design varies from 400 Kg/Cum, necessary cost adjustment for deviation in the quantity of Portland Pozzolana Cement or Portland Slag cement shall be done as per the rate of Portland Pozzolana Cement or Portland Slag cement in actual supply voucher from manufacturer/ authorized dealer at the time of execution. In the case of authorized dealer the rate may be authenticated by the manufacturer. The rate of Portland Pozzolana Cement or Portland Slag cement exclusive of GST shall only be considered for payment. In no case quantity of Portland Pozzolana Cement or Portland Slag cement shall fall below 330 Kg/Cum. Extra payable/deductible rate shall be calculated in following manner:

Cost of Portland Pozzolana Cement or Portland Slag cement above/below 400Kg/Cum : 'X' Add 1% Water Charges on 'X'

Add 15% CP & OH on total adding 1% water charges

Add 1% labour Cess on total after adding 15% CP & OH : Say 'A'

3.2.3 SUPER PLASTICIZER

If the actual percentage of Super plasticizer by mass of cementitious material varies from 0.5%, Extra payable/ deductible rate shall be calculated in following manner:

Extra/ less cost of super plasticizers over or below 0.5% of cementitious material : 'X'

Add 1% Water Charges on 'X'

Add 15% CP & OH on total adding 1% water charges

Add 1% labour Cess on total after adding 15% CP & OH : Say 'A'

The rate of super plasticizers shall be as per actual supply voucher from manufacturer/authorized dealer at the time of execution. In the case of authorized dealer the rate may be authenticated by the manufacturer. The rate of super plasticizer exclusive of GST shall only be considered for payment.

- 3.3 At the time of tendering, the Contractor, after taking into account the type of aggregates, plant and method of laying he intends to use, shall allow in his tender for aggregate/cement and water cement ratios which he considers will achieve the specified strength. These ratios shall, however, not exceed the ratios stipulated in para 3.1 and shall produce a workability, which shall enable concrete to be properly compacted to its full depth and finished to the surface tolerance specified.
- 3.4 No concrete shall be laid nor any payment made thereof unless the concrete mix design is submitted by the Contractor and is approved by the concerned Engineer-In-Charge and communicated in writing. This mix design shall be provisional and subject to obtaining satisfactory results with trial mixes. Final approval shall be issued only after getting the satisfactory test report from trial mixes.
- 3.5 Laboratory charges for mix design, cost of materials, its cartage and other incidental expenses shall be borne by the Contractor.
- 3.6 Guidelines for Cement Concrete Mix Design for Pavements can be followed as per IRC: 44 -2017 and SP: 23-1982.

4.0 FIELD TRIAL MIXES

- 4.1 Preliminary trial mixes shall be made and tested. Trial mixes shall also be made if a change is intended subsequently in the source of supply of materials/quality of materials or in the proportions of the materials to be used.
- 4.2 Samples of concrete shall be taken at the concrete batching plant and work beams made, cured and tested in accordance with IS: 1199 and IS: 516, as per clause 4.3 given below.
- 4.3 Representative samples of materials to be used shall be taken and trial mix using the proposed proportions shall be made, two samples each on three different days. Each sample shall consist of 6 beam specimens, three for testing at 7 days and three at 28 days and a total of 36 beams shall be made in three days. The workability of each of these six trial mixes shall be determined. The test strength of the sample shall be the average strength of 3 specimens but individual variation should not be more than +15%. Otherwise, new trial mix corresponding to the initially approved sample will have to be made. The proposed mix proportion shall not be accepted if the average of 28 days beam strength of 6 trial mixes is not satisfying the provisions as per para 16.4.1. The mix shall be suitably modified if the strength do not meet the criteria as specified.

- 4.4** The mix design shall be got approved from concerned Engineer-In-Charge. The design mix, thus approved shall be intimated to the Contractor by the Engineer-in-Charge with full data and clear understanding that the mix proportion specified is provisional subject to the verification of level of control at the site.
- 4.5** 30 beams and 30 cubes shall be cast for deriving the relationship between flexural strength and compressive strength i.e. K-value, by the Engineer-In-Charge and the same shall be got approved from concerned General Manager Engg (Project)/work. This K-value shall be used for calculation of required core strength in clause 16.4.3.
- 4.6** During the progress of work, samples of concrete shall be taken at the concrete batching plant and work beams made, cured and tested in accordance with IS: 1199 and IS: 516. Acceptance criteria for this shall be as per para 16.4.1.
- 4.7** All samples for tests shall be taken in the presence of the Engineer-in-charge and the contractor or their authorized representatives.

5.0 SLUMP TEST

- 5.1** Slump tests shall be carried out as per IS: 1199 (latest revision). A slump test shall be carried out as per clause 16.1 under quality control or more and frequently, if directed by the Engineer-in-Charge. Any batch from which slump test is being made shall not be transferred to the place of laying till the slump test has been completed and result approved. Not only the batch which gives a slump in excess of that specified shall be rejected but the concrete already laid immediately preceding the batch tested up to the nearest last transverse joint may be rejected by the Engineer-in-Charge or his representative, if he is satisfied that such preceding batches were sub-standard in this respect. The decision of the Engineer-in-Charge in this respect shall be final and binding on the contractor. Such rejected concrete shall be removed by the Contractor immediately and replaced with proper concrete at his own cost and expense.

6.0 BATCHING AND MIXING OF CONCRETE

- 6.1** A system approach should be adopted for construction of pavement, and the method statement for carrying out the work, detailing all the activities including indication of time cycle, equipment, personnel etc. shall be got approved from the Engineer-in-Charge before the commencement of work. The above shall include the type, capacity and make of batching and mixing plant beside the hauling arrangement and paving equipment. The capacity of paving equipment, batching plant as well as all the ancillary equipment shall be adequate for a paving requirement for day's work.
- 6.2** Batching and mixing of the concrete shall be done at a central batching and mixing plant of adequate capacity as per work program with automatic controls, located at suitable place which takes into account sufficient space for stock piling of cement, aggregate and stationary water tanks. This shall be however, situated at

an approved distance, duly considering the properties of the mix and transport arrangements available with the contractor.

- 6.3** Proportioning of a material shall be done in the batching plant by weight, each type of material being weighed separately. The cement from the bulk stock may be weighed separately from the aggregates and water shall be measured by volume. Wherever properly graded aggregate of uniform quality cannot be maintained as envisaged in the mix design the grading of aggregates shall be controlled by appropriate blending techniques. The capacity of batching and mixing plant shall be at-least 25% higher than the proposed capacity for the laying/ paving equipment.
- 6.4** The batching plant shall include preferably four bins, weighing hoppers, and scales for the fine aggregate and for each size of coarse aggregate. If cement is used in bulk (after opening bags on platform) a separate scale for cement shall be included. The weighing hoppers shall be properly sealed and vented to preclude dust during operation. Approved safety devices shall be provided and maintained for the protection of all personnel engaged in plant operation, inspection and testing. The batch plant shall be equipped with a suitable non resettable batch counter which will correctly indicate the number of batches proportioned.
- 6.5** Bins preferably with four adequate separate compartments shall be provided in the batching plant.
- 6.6** Batching plant shall be equipped to proportion aggregates and bulk cement by means of automatic weighing devices using load cells. The weighing device shall have an accuracy within + 1% in respect of quantity of cement and water and + 2% in respect of aggregates and accuracy shall be checked at least once a month.
- 6.7** Mixers shall be pan type, reversible type with single or twin shaft or any other mixer capable of combining the aggregates, cement and water into a thoroughly mixed and uniform mass within the specified mixing period and of discharging the mix without segregation. Each stationary mixer shall be equipped with an approved timing device which will automatically lock the discharge lever when the drum has been charged and release it at the end of the mixing period. The device shall be equipped with a bell or other suitable warning device adjusted to give a clearly audible signal each time the lock is released. In case of failure of the timing device the mixer may be used for the balance of the day while it is being repaired provided that each batch is mixed for 90 seconds or as per the manufacturer's recommendation. The mixer shall be equipped with a suitable non resettable batch counter which shall correctly indicate the number of batches mixed.
- 6.8** The mixer shall be cleaned at suitable intervals. The pickup and throw over blades in the drum or drums shall be repaired or replaced when they are worn down 20mm or more. The contractor shall have available at the job site a copy of the manufacturers design, showing dimensions and arrangements of blades in reference to original height and depth or provide permanent marks on blade to show points of 20mm wear from new conditions. Drilled holes of 5mm diameter

near each end and at mid-point of each blade are recommended. Batching plant shall be calibrated for the each ingredients upto its maximum quantity being used in the mix at site in the beginning and thereafter at suitable interval not exceeding one month.

- 6.9** Air-conditioned centralized computer control cabin shall be provided for automatic operation of the equipment.
- 6.10** The design feature of the batching plant should be such that it can be shifted quickly.
- 6.11** Concrete mixed as above is not to be modified by the addition of water or otherwise in order to facilitate handling or for any other purpose.

7.0 PAVING EQUIPMENT

- 7.1** The concrete shall be placed with Slip Form Paver/Fixed form paver (with independent units to spread, consolidate from the mould, screed and float-finish, texture and cure) or Manual method as per the item/as approved by Engineer-in-Charge. If the concrete is to be laid by slip form paver, the paver shall be equipped with electronic controls to control the line and grade from either one side or both sides of the machine.
- 7.2** Vibrators shall operate at a frequency and spacing recommended by the manufacturer. The variable vibration setting shall be provided in the machine.
- 7.3** The contractor shall provide adequate no. of concrete saws with sufficient no. of diamond edge saw blades. The saw machine shall be either electric or petrol/ diesel driven type. A water tank with flexible hose and pump shall be made available for this activity on priority basis. The contractor shall have at least one standby saw in good working condition. The concreting work shall not commence if the saws are not in working condition.
- 7.4 Guide wires for Slip form Paver**
 - 7.4.1** Guide wire shall be provided along both sides of the slab. Each guide wire shall be at a constant height above and parallel to the required edge of the slab as described in the contract/drawing within a vertical tolerance of + 2 mm. Additionally, one of the wires shall be kept at a constant horizontal distance from the required edge of the pavement as indicated in the contract /drawing with in a lateral tolerance of +10mm.
 - 7.4.2** The guide wires shall be supported on stakes 5-6 meters apart by connectors capable of fine horizontal and vertical adjustment. The guide wire shall be tensioned on the stakes so that a 500 grams weight shall produce a deflection or not more than 20mm when suspended at the midpoint between any pair of stakes. The ends of guide wire shall be anchored to fixing point or winch and not on the stakes.

- 7.4.3 The stakes shall be positioned and the connectors maintained at their correct height and alignment 12 hrs. on the day before concreting takes place until 12 hrs. after finishing of the concrete. The guide wires shall be checked and tensioned on the connectors at any section at least 2 hrs. before concreting that section.
- 7.4.4 The contractor shall submit to the Engineer-In-Charge for his approval of line and level, the stakes and connectors which are ready for use in the length of pavement to be constructed next day. Such approval shall be obtained at least 12 hrs. before commencement of paving operation. Any deficiencies noted by the Engineer-in-Charge shall be rectified by the contractor who shall then reapply for approval of the affected stakes. Work shall not proceed until the Engineer-in-Charge has given his approval. It shall be ensured the stakes and guide wires are not affected by the construction equipment when concreting is in progress.
- 7.5 Side Forms and Rails for Fixed form paver**
- 7.5.1 All side forms shall be of mild steel channels of depth equal to the thickness of pavement or slightly less to accommodate the surface irregularity of the sub base. The forms can be placed in series of steel packing plates or shims to take care of irregularity of sub base. They shall be sufficiently robust and rigid to support the weight and pressure caused by a paving equipment.
- 7.5.2 Side forms for use with wheeled paving machines shall incorporate metal rails firmly fixed at a constant height below the top of the forms. The forms and rail shall be firmly secured in position by not less than 3 stakes/pins for every 3 meter length so as to prevent movement in any direction. Forms and rails shall be straight within a tolerance of 3 mm in 3 meter and when in place shall not settle in excess of 1.5 mm in 3 meter while paving is being done. Forms shall be cleaned and oiled immediately before each use.
- 7.5.3 The forms shall be bedded on a continuous bed of low moisture content lean cement mortar or concrete and set to the line and levels shown on the drawings within tolerances of + 10 mm and + 2 mm respectively. The bedding shall not extend under the slab and there shall be no vertical step between adjacent forms of more than 2 mm. The forms shall be got inspected by the Engineer-in-Charge for his approval 12 hrs. before construction of the slab and shall not be removed until at least 12 hrs. Afterwards. No concreting shall commence till form work has been approved by the Engineer-in-Charge.
- 7.5.4 At all times sufficient forms shall be used and set to the required alignment for required length of pavement immediately in advance of the paving operations, or the anticipated length of pavement to be laid within the next 24 hrs.
- 7.5.5 Forms shall be fixed in advance as per specifications. Before any paving is done the site shall be shown to the Engineer-in-Charge in order to verify the arrangement for paving as per the relevant clauses of this specification. The mixing and placing of concrete shall progress only at such a rate as to permit proper finishing, protecting and curing of the pavement.

7.6 Steel Forms for Manual Method

- 7.6.1 Manual method may be adopted where execution with slip form paver is not feasible. All side forms shall be of mild steel. The steel forms shall be of mild steel sturdy channels sections and their depth shall be equal to the thickness of the pavement.
- 7.6.2 The side forms shall have a length of at least 3.0 meters except on curves of less than 45 meters radius where shorter length may be used. When set to grade and stacked in place the maximum deviation of the top surface of any section from a straight line shall not exceed 2 mm in the vertical plane and 5 mm in the horizontal plane. The method of connection between sections shall be such that the joint formed shall be free from difference in level, play or movement in any direction. The use of bent, twisted or worn out forms will not be permitted. At least three stake pickets for each 3.0 m of form and the bracing and support must be ample to prevent springing of the forms under the pressure of concrete or the weight or thrust of machinery operating on the forms.
- 7.6.3 The supply of forms shall be sufficient to permit their remaining in place for 12 hrs. after the concrete has been placed or longer, if in the opinion of the Engineer-in-Charge, it is necessary.
- 7.6.4 The top line of the forms is not to vary from the correct level or alignment and the levels and alignment of the forms are to be checked and corrected as necessary immediately prior to the placing of concrete. The top edges and faces of the forms are to be carefully cleaned and maintained in clean condition.
- 7.6.5 While removing the steel forms, care shall be taken to withdraw them gradually. Any damages to the bull nosed edges shall be made good while the concrete is still green, as directed by the Engineer-in-Charge.
- 7.6.6 Setting of forms shall be according to the slab plan subject to the approval of the Engineer-in-Charge and concreting shall not commence until the setting of forms is approved.
- 7.6.7 Forms shall be set at least 50 meters length in advance of the point where the concrete is being laid and shall not be removed until at least 12 hrs. of the placing of concrete or longer if in the opinion of Engineer-in-Charge, it is necessary. After setting, the working faces shall be thoroughly oiled using approved oil but before concrete is placed against them.
- 7.6.8 Sufficient rigidity shall be obtained to support the forms in such a position during the entire operation of compaction and finishing that they will not at any time deviate more than 3 mm from a straight edge 3 meters in length. Forms which show a variation from the required rigidity or the alignment and levels shown on the plans, shall be reset or removed, as directed. The length and number of pins or stakes shall be such as to maintain the forms at the correct line and grade. All forms shall be cleaned and oiled each time before they are used.

8.0 HAULING AND PLACING OF CONCRETE

- 8.1** Freshly mixed concrete from the central batching and mixing plant shall be transported to the paver site by means of tippers/transit mixers of sufficient capacity and approved design in sufficient numbers to ensure a constant supply of concrete. Cover shall be used for protection of concrete against the weather. While loading the concrete, truck shall be moved back and forth under the discharge chute to prevent segregation. The tipping trucks shall be capable of maintaining the mixed concrete in a homogeneous state and discharging the same without segregation and loss of cement slurry. The feeding to the paver is to be regulated in such a way that paving is done in an uninterrupted manner with a uniform speed throughout the day's work. Tipping truck shall be washed at a regular frequency as prescribed by the Engineer-in-Charge to ensure that no leftover mix of previous loading remains stuck.
- 8.2** Concrete mixed in central mixing plant shall be transported to the site without delay and the concrete which in the opinion of Engineer-in-Charge, has been mixed too long before laying will be rejected and shall be removed from the site. The total time taken from the addition of water to the mix until the completion of surface finishing and texturing shall not exceed 120 minutes when concrete temperature is less than 25⁰C and 90 minutes when concrete temperature is between 25⁰C to 30⁰C. Tippers/transit mixers delivering concrete shall not run on completed slabs until after 28 days of placing of concrete.
- 8.3** In all cases the temperature of the concrete shall be measured at the point of discharge from the delivery vehicle.
- 8.4** The addition of water to the surface of the concrete to facilitate the finishing operations will not be permitted except with the approval of the Engineer-in-Charge when it shall be applied as a mist by means of approved equipment.
- 8.5** If considered necessary by the Engineer-in-Charge, the paving equipment shall be provided with approved covers to protect the surface of the slab under construction from direct sunlight and rain or hot wind.
- 8.6** As soon as the side forms are removed, edges of the slabs shall be corrected wherever irregularities have occurred by using fine concrete composed of 1:1:2, cement: sand: coarse aggregate (10 mm down) with water cement ratio not more than 0.4 under the supervision of Engineer-in-Charge.
- 8.7** If the requirement for surface regularity fails to be achieved on two consecutive working days then normal working shall cease until the cause of the excessive irregularity has been identified and remedied.
- 8.8** **Construction by Slip Form Paver:** The slip form paving train shall consist of power machines which spreads compacts and finishes the concrete in a continuous operation.

- 8.8.1 The slip form paving machine shall compact the concrete by internal vibration and shape it between the side forms with either a conforming plate or by vibrating and oscillating finishing beams. The concrete shall be deposited without segregation in front of slip form paver across the whole width and to a height which at all times in excess of the required surcharge. The deposited concrete shall be struck off to the necessary average and differential surcharge by means of the strike off plate or a screw auger device extending across the whole width of the slab. The equipment for striking-off the concrete shall be capable of being rapidly adjusted for changes of the average and differential surcharge necessitated by change in slab thickness or cross fall.
- 8.8.2 The level of conforming plate and finishing beam shall be controlled automatically for the guide wires installed by sensors attached at the four corners of the slip form paving machine. The alignment of paver shall be controlled automatically from the guide wire by at least one set of sensors attached to the paver. The alignment and level of ancillary machines for finishing, texturing and curing of the concrete shall be automatically controlled relative to the guide wire or to the surface and edge of an adjoining hardened slab.
- 8.8.3 Slip form paving machines shall have vibrators of variable output with a maximum energy output of not less than 2.5 KW per meter width of slab per 300 mm depth of slab for a laying speed upto 1.5 m per minute or pro-rata for higher speeds. The machine shall be of sufficient mass to provide adequate reaction during spreading and paving operations on the traction units to maintain forward movements during the placing of concrete in all situations.
- 8.8.4 If the edges of the slip formed slab slump to the extent that the surface of the top edge of the slab does not comply with the requirements, then special measures approved by the Engineer-in-Charge shall be taken to support the edges to the required levels and work shall be stopped until such time as the contractor can demonstrate his ability to slip form the edges to the required levels. The slumped edge shall have to be corrected by adding fresh concrete after roughening the surface.
- 8.8.5 Upon the instructions of the Engineer-in-Charge, contractor shall scrape the concrete surface when in plastic state with a 3.0 m long tube float fixed with a long and stable handle before texturing. Tube float shall be of an alloy steel tube of 50-60 mm diameter with a long and stable handle. The length of the tube float shall preferably be longer than half the length of slab i.e., half the distance between two transverse contractions joints. This operation shall be done to minimize surface irregularity caused due to varied causes like frequent stoppage of work, surface deformation due to plastic flow etc. The tube float shall be placed at the center of the slab parallel to longitudinal joint and pulled slowly and uniformly towards the edges. After the use of the float tube, it shall be frequently cleaned before further use. The slurry removed shall be discarded. This activity shall be advanced laterally by providing an overlap of half the length of two float. The removal of the cement slurry from the surface shall be sufficient enough such that the texture is formed on a firm surface and is more durable. This operation however, shall be carried out after removing bleeding water.

- 8.8.6 In the case of construction by slip form paver, areas inaccessible to paving equipment shall be constructed by manual/hand guided method. Areas in which manual/hand guided methods of construction become indispensable shall be got approved by the Engineer-in-Charge in writing in advance. Work shall be carried out by skilled personnel as per methods approved by the Engineer-in-Charge. For construction by hand guided method in the limited area, no cost adjustment will be made.
- 8.9 Construction by Fixed Form Paver:** The fixed form paving train shall consist of separate powered machines which spread, compact and finish the concrete in a continuous operation. The paving train moves on the rails fixed on both sides of the pavement and compacting/finishing is simultaneously carried with the equipment fitted with paving train which moves on the rails.
- 8.9.1 The concrete shall be discharged without segregation into a hopper of the spreader which is equipped with means for controlling its rate of deposition on to the sub-base. The spreader shall be operated to strike off concrete upto a level requiring a small amount of cutting down by the distributor of the spreader.
- The distributor of spreader shall strike off the concrete to the surcharge adequate to ensure that the vibratory compactor thoroughly compacts the layer. If necessary, a poker vibrator shall be used adjacent to the side forms and edges of the previously constructed slab.
- 8.9.2 The vibratory compactor shall be set to strike off the surface slightly high so that it is cut down to the required level by the oscillating beam. The machine shall be capable of being rapidly adjusted for changes in average and differential surcharge necessitated by changes in slab thickness or cross fall. The final finisher shall be capable to finish the surface to the required level and smoothness as specified, care being taken to avoid bringing up of excessive mortar to the surface by over working.
- 8.9.3 In the case of construction by fixed form paver, areas inaccessible to paving equipment shall be constructed by manual/hand guided method. Areas in which manual/hand guided methods of construction become indispensable shall be got approved by the Engineer-in-Charge in writing in advance. Work shall be carried out by skilled personnel as per methods approved by the Engineer-in-Charge. For construction by hand guided method in the limited area, no cost adjustment will be made.
- 8.10 SURFACE TEXTURE**
- 8.10.1 Surface of the pavement shall be finished for the newly constructed concrete pavements such that texturing equipment shall not tear or unduly roughen the concrete surface during the operation. The texture shall be uniform in appearance and approximately 2.0mm in depth. Brush shall be applied when the water sheen has practically disappeared and the surface of concrete shall be brush-textured in a direction at right angles to the longitudinal axis of the carriageway to get satisfactory texture.

- 8.10.2 The texture depth shall be determined by the Sand Patch Test as described below. This test shall be performed at least once for each day's paving and wherever the Engineer-In-Charge consider it necessary at times after construction as under:

Five individual measurement of the texture depth shall be taken at least 2m apart anywhere along a diagonal line across a lane completed between points 50m apart along the pavement. No measurement shall be taken within 300mm of the longitudinal edges of a concrete slab constructed in one pass.

8.10.3 Measurement of Texture Depth – Sand Patch Method

The following apparatus shall be used:

- i) A cylindrical container of 25 ml internal capacity.
- ii) A flat wooden disc 64mm diameter with a hard rubber disc, 1.5mm thick, stuck to one face, the reverse face being provided with a handle.
- iii) Dry natural sand with a rounded particle shape passing a 300micron IS sieve and retained on a 150 micron IS sieve.

Method: The surface to be measured shall be dried, any extraneous mortar and loose material removed and the surface swept clean using a wire brush both at right angles and parallel to the carriageway. The cylindrical container shall be filled with the sand, tapping the base 3 times to the surface to ensure compaction, and striking off the sand level with the top of cylinder. The sand shall be poured into a heap on the surface to be treated. The sand shall be spread over to surface, working the disc with its face kept flat in a circular motion so that the sand is spread into a circular patch with the surface depressions filled with sand to the level of peaks. The diameter of the patch shall be measured to the nearest 5mm. The texture depth of concrete surface shall be calculated from $31000/(D \times D)$ mm where D is the diameter of patch in mm.

- 8.10.4 Texture depth shall not be less than a minimum required when measurement are taken as given in table nor greater than a maximum average of 1.25 mm.

TABLE : TEXTURE DEPTH

S No.	Time Test	Number of measurements	Required Texture Depth (mm)	
			Specified value	Tolerance
1.	Between 24 Hrs. and 7 days after the construction of the slab or until the slab is first used by vehicles.	An average of 5 Measurements	1.00	+0.25
2.	Not later than 6 weeks before the pavement is opened to traffic.	An average of 5 Measurements	1.00	+0.25

- 8.10.5 After the application of the brushed texture, the surface of the slab shall have a Uniform appearance.
- 8.10.6 Where the texture depth requirements are found to be deficient, the Contractor shall make good the texture across the full lane width over length directed by the Engineer-in-Charge, by texturing the hardened concrete surface in an approved manner.

9.0 CONSTRUCTION BY MANUAL/HAND GUIDED METHOD:

The pavement shall be constructed using side forms. The acceptance criteria regarding level, thickness, surface regularity, texture, finish strength of concrete and all other quality control measures shall be the same as in the case of machine laid down.

9.1 Placing of Concrete:

- 9.1.1 Concrete shall be deposited between the forms. Where a certain amount of redistribution is necessary, it shall be done with shovels and not with rakes. The concrete shall be compacted with the needle vibrator and vibrating screeds. Use of vibrator near side forms is essential to eliminate honey combing. To effect adequate compaction, the concrete shall be placed with appropriate surcharge over the final slab thickness. The amount of surcharge will depend upon the mode of placement of concrete and shall be determined by trial. In general, the required surcharge is about 20% of the required slab thickness.
- 9.1.2 The concrete is to be deposited and spread to such a depth that when compacted and finished, the slab thickness indicated will be obtained at all points and the surface will not at any point be below the level specified for the finished surface.

9.2 Compaction of Concrete

- 9.2.1 Compaction shall be carried out by electrically operated needle and screed vibrators as stipulated hereafter. Needle vibrators should be used all over the area for obtaining initial compaction of concrete. These should be of diameter not less than 4.5 cm and if the vibrators are pneumatic, the pressure must not be below 4 kg/sq.cm. If electrically operated, they should have a minimum frequency of 3500 impulses per minute. Minimum number of petrol driven vibrators as specified by the Engineer-in-Charge with minimum frequency of 3500 impulses per minute shall be provided at each work head as a standby arrangement. The screed and internal vibrator shall conform to I.S.:2505 and I.S.: 2506 respectively.
- 9.2.2 There should be at least three needle vibrators working in one bay. A vibrating screed consisting of a steel or timber section weighing not less than 15 kg per meter with a tamping edge of not less than 7 cm width and having a vibrator mounted thereon shall follow needle vibrators to obtain full compaction. The face of the wooden tamping edge of the screed shall be lined with M.S. plate rigidly fixed by means of counter sunk screws. Where screed vibrators are used for compaction, a standby unit shall always be maintained ready for use, should the other one go out of order. Where electrically driven vibrators are employed,

a stand by pneumatic unit shall be kept ready for use in case of power failure. At the discretion of the Engineer-in-Charge, for compaction at edges and joints, vibrators may be supplemented by hand tamping and rodding for securing satisfactory results. Under no circumstances, honey combing of concrete at joints or elsewhere shall be permitted.

- 9.2.3 When using screed vibrator for compaction, it should not be dragged over the concrete. During the initial passes, it shall be lifted to the adjacent forward position in the steps. Subsequently, it shall be slowly slid over the surface with its axis slightly tilted away from the direction of sliding and the operation repeated until a close, dense surface is obtained.
- 9.2.4 Work men shall not be allowed to walk on freshly laid concrete. All operations shall be carried out from suitable wooden bridges spanning the lane- width.
- 9.2.5 **IMPORTANT PRECAUTION:** The vibration process shall be restricted just up to the stage of appearance of water/ cement slurry on the surface. After reaching this point vibration should be discontinued. It should be ensured that no over- vibration is resorted, as it leads to formation of thin cement slurry layer over the top surface which tends to peel off with passage of time by movement of traffic.

9.3 **Finishing of Concrete**

- 9.3.1 Immediately after compacting of concrete and the construction of joints but before the concrete has hardened and while the concrete is still in a plastic state, the pavement surface shall be inspected for irregularities with a profile checking template and minor irregularities and score marks shall be eliminated by removing surplus material or by adding and working in freshly mixed concrete if necessary by means of long handled floats and scraping straight edges followed by further compaction and finishing. The long handled floats may be used to smoothen and fill in open textured area in the pavement surface, but the final finishing is to be done with scraping straight edges.
- 9.3.2 The scraping straight edges are to be 3 meters long with flexible handles long enough to reach the other side of the slab when operated from one side of the pavement. They are to be placed parallel to the forms at the side of the pavements and worked backwards and forwards uniformly across the width of the slab. After this operation has been completed and the surface has been brought to the required finish, the straight edge is to be moved forward but not more than half its length and the process repeated.
- 9.3.3 The straight edge testing and refloating is to continue until the entire surface:
- a) Is free from observable departure from the straight edge.
 - b) Conforms to the required levels and cross-section.
 - c) Conforms to the specified surface finish when the concrete has hardened.
- 9.3.4 The foregoing work is to be carried out while the concrete is still plastic and workable and in such time sequence so as to ensure the removal of water and laitance from the surface.

9.4 BELTING

Just before the concrete becomes non-plastic, the surface shall be belted with two ply canvas belt not less than 20 cm wide and at least 1 meter longer than the width of the slab. Hand belts shall have suitable handles to permit controlled uniform manipulation. The belt shall be operated with short strokes transverse to the center line of pavement and with a rapid advance parallel to the concrete line.

9.5 BROOMING

9.5.1 After belting and as soon as surplus water, if any, has risen to the surface, the pavement shall be given a broom finish with an approved steel or fiber broom not less than 45 cm wide. The broom shall be pulled gently over the surface of the pavement from edge to edge. Adjacent strokes shall be slightly overlapped. Brooming shall be perpendicular to the centre line of the pavement and so executed that the corrugations formed will be uniform in character and width and not more than 2.0 mm deep.

9.5.2 Brooming shall be completed before the concrete reaches such a stage that the surface is likely to be torn or unduly roughened by the operation. The broomed surface shall be free from porous or rough spots, irregularities, depressions and small pockets such as may be caused by accidental disturbing of particle of coarse aggregates embodied near the surface. The rate of the contractor for the item of quality controlled concrete pavement includes the provision for belting and brooming operations and nothing extra shall be paid on this account.

9.6 EDGING

After belting/ brooming has been completed but before the initial setting of concrete, the edges of the slab shall be carefully finished with an edging tool of 6 mm radius, and the pavement edges shall be left smooth and true to line.

9.7 HONEY COMBING

As soon as the side forms are removed, any minor honey combed areas shall be filled with mortar composed of one part of cement and two parts of fine aggregate. Major honey combed areas or segregated concrete or other defective work or areas damaged by removal of the forms or concrete damaged by rain or due to any other reason whatsoever shall be considered as defective work and shall be removed and replaced by the contractor at his own expense. The total area of honey combed surface not exceeding 2.5 sq.cm. each, shall not exceed 4% of the area of the slab side. Engineer in charge's decision as to whether the concrete is defective or not shall be final and binding.

10.0 SURFACE ACCURACY

10.1 After the concrete has sufficiently hardened after about 12 hours and not later than 24 hours, the surface shall be tested again for high spots. All high spots shall be marked and those exceeding 3 mm shall be ground down immediately as directed by the Engineer-in-Charge after obtaining his written permission. Care shall be taken to see that the grinding does not in any way damage the concrete surface.

- 10.2** The final surface finish is to be such that when tested with a profilograph/roughness indicator/or a 3 meter long straight edge or an equivalent mechanical unevenness indicator placed anywhere within the same or adjoining slab in any direction on the surface, there shall be no variation greater than 3mm.
- 10.3** If the surface irregularities exceeding 3 mm still remains despite grinding if permitted, as per para 10.1 the concrete shall be removed to its full depth and replaced. The area of concrete to be removed shall be complete slab between the nearest joints. Where the defective slab is less than 4.5 meter from the construction joint, the whole area upto the construction joint shall be removed to the full depth. The concrete so removed shall not be reused in the work.
Fresh concrete shall be laid in the manner already described in these specifications and shall again be subjected to test for surface accuracy and other quality control measures. Nothing extra shall be paid for all these operations.
- 10.4** Every slab shall bear an impression not exceeding 3 mm in depth comprising the number allotted to the slab and the date on which it is laid. This impression shall be formed by the Contractor when the concrete is green so as to leave permanent mark on setting.

11.0 CURING OF CONCRETE

Initial curing shall be done by application of curing compound or by manual method as per clause 16.37.13.5 of CPWD specifications Vol-II, 2019. However nothing extra shall be paid for curing by application of curing compound.

11.1 Initial Curing by application of Curing Compound:

- 11.1.1** Immediately after the surface texturing, the surface and sides of the slab shall be cured by the application of approved resin-based aluminized reflective curing compound or white pigmented curing compound which hardens into an impervious film or membrane with the help of a mechanical sprayer.
- 11.1.2** Curing compounds shall contain sufficient flake aluminium in finely divided dispersion to produce a complete coverage of the sprayed surface with a metallic finish. The compound shall become stable and impervious to evaporation of water from the surface of the concrete within 60 minutes of application and shall be of approved type. The curing compounds shall have a water retention efficiency index not less than 90 percent in accordance with BS Specifications No.7542 or as per ASTM C-309-81 Type 2.
- 11.1.3** The curing compound shall not react chemically with the concrete and the film or membrane shall not crack, peel or disintegrate within three weeks after application. Immediately prior to use, the curing compound shall be thoroughly agitated in its containers. The rate of spread shall be in accordance with the manufacturer's instructions checked during the construction of the trial length and subsequently whenever required by the Engineer-in-Charge. The mechanical sprayer shall incorporate an efficient mechanical device for continuous agitation and mixing of the compound during spraying. Arrangements should be made to spray the curing compound on the sides of the slab. The curing compound shall be sprayed in two

applications to ensure uniform spread. In addition to spraying of the curing compound, the fresh concrete surface shall be protected for at least 3 hours by covering the finished concrete pavements with tents supported on mobile truss during adverse weather conditions as directed by the Engineer-in-Charge.

11.2 FINAL CURING

Final curing shall be done either by spreading of wet hessian and moisturing it regularly or by ponding method as given below. However, nothing extra shall be paid for curing by spreading wet hessian method. All joints shall be filled in with temporary filler like sand etc. in order to prevent the edges of joints from being damaged and entry of clay materials into the joints during final curing.

11.2.1 Final curing by spreading of wet hessian method

After two or three hours after application of curing compound, the pavement shall be covered including sides by moist hessian (minimum of two layers) and the same shall then be kept damp for a minimum period of 14 days after which time the hessian may be removed. During the curing period, the hessian shall be kept continuously moist.

All damaged/torn hessian shall be removed and replaced by new hessian on a regular basis.

11.2.2 Final curing by ponding method

After two to three hours after application of curing compound or upon removal of the burlap as the case may be, the slab shall be thoroughly wetted and cured by ponding as follows:

Exposed edges of the slab shall be banked with a substantial berm of earth. Upon the slab shall then be laid a system of transverse and longitudinal height of clay about 50 mm high immediately covered with a blanket of sandy soil free from stones to prevent the drying up and cracking of clay. The rest of slab within these boundaries shall then be covered with sufficient sandy soil so as to produce blanket of earth not less than 40mm deep after wetting. The earth covering shall be thoroughly wetted while it is being place on the surface and against the sides of the slab and kept thoroughly saturated with water for 21 days and thoroughly wetted down during the morning of the 22nd day and shall thereafter remain in place until the concrete has attained the required strength and permission is given by the Engineer-in- Charge. Thereafter the covering shall be removed and the pavement cleaned and swept. If the earth covering becomes displaced during the curing period, it shall be replaced to the original depth and restarted.

11.2.3 The contractor shall be liable at his cost to replace any concrete damaged as a result of incomplete curing or cracked on a line other than that of a joint as per procedure in IRC:SP-83.

11.2.4 The Contractor shall employ his own security personnel to prevent workmen, cattle straying etc., on the pavement concrete.

- 11.2.5 Concrete shall not be subjected to any load or weight of any plant until at least 28 days after laying, except for cutting the joints as directed by the Engineer-in- Charge.

12.0 CONTRACTION/DUMMY JOINTS

- 12.1 The spacing of transverse and longitudinal joints shall be 4.5 to 5 meter or as shown in the drawing. It shall be 10 mm wide and shall extend vertically from the surface of the slab to a depth equal to one-third depth of slab. The joint shall be formed by cutting with a joint cutting machine. **The initial cut or slot of not less than 3mm wide is to be formed by sawing the concrete with a joint cutting machine of approved design as soon as the concrete hardens. Normally in summer when ambient temperature is more than 30°C, initial cutting may be carried after 4-8 hrs. of laying and in winter when ambient temperature is less than 30°C, initial cut may be done at 8-12 hrs. of laying.** Top 25mm of this joint groove shall be subsequent widened to 10mm, after 14-16 days of casting concrete pavements. The details of Contraction/dummy joint shall be as given in Appendix – ‘A-2’.
- 12.2 Before cutting the dummy joints, all necessary precautions shall be taken to ensure that the joint alignment is marked straight and true as per the drawings. The joint cutting machine will be handled only by an experienced person thoroughly familiar with this type of work. The joint should be cut along this alignment only. Any error in the joint cutting alignment shall be rectified by the Contractor at his own expense as directed by the Engineer-in-Charge, preferably using epoxy concrete as approved.
- 12.3 The groove shall be inserted with 12mm dia closed-cell Polyethylene foam back-up rod, 13mm below from the surface of the concrete and filling with Polysulphide Sealant conforming to grade B.S.: 5212-1990 or IS:11433-1995. Prior to filling with Polysulphide, the joints shall be cleaned by compressed air up to full depth and primed properly with appropriate Polysulphide primer up to back-up rod and masking tape shall be applied along the edges of joint to prevent spillage of sealant on top surface to give neat finish to sealant. The masking tape shall be removed after the sealant has been applied and tooled.
- 12.4 All joints shall be sealed as soon as practicable after 28 days of placing of slabs. Joints shall be sealed flush with the adjacent pavement surface. The pavement shall be opened to traffic only after joint sealing over the entire pavement has been completed. To prevent tackiness or pick up under traffic, the exposed surfaces of the sealing compound shall be dusted with hydrated lime, if directed by Engineer-in-Charge, for which nothing extra shall be paid to the Contractor.
- 12.5 Each lot sealant shall be supported with manufacturers test certificate. However one sample per 1000 kg. of sealant received at site or part thereof shall be collected by the Engineer-in-Charge or his authorized representative and sent for testing to any Government/ AAI approved Laboratory.

The contractor shall note that as testing charges of sealant seem to be high, they shall confirm the testing charges and quote their rates accordingly. Nothing extra over and above the quoted rates is payable on this account and no plea on what so ever ground will be entertained later on.

12.6 In case of sudden rain or storm, the work can be concluded at the dummy joints but these will then be formed as construction joints.

12.7 Before sealing of joints, it may be ensured that the transverse joints on each side of the longitudinal joint shall be in line with each other and of the same type and width. Any concrete or other foreign matter must be removed from the groove before sealing.

13.0 CONSTRUCTION JOINTS

13.1 Construction joints shall be provided as shown in the drawing and also at places whenever day's operations start and stops or where concreting is stopped due to unforeseen circumstances. The joints shall be straight and vertical through the full depth of the slab.

13.2 At all construction joints, bulk head shall be used to retain the concrete and care shall be taken in striking off and finishing the surface to the top face of the bulkhead. When work is resumed, the surface of concrete laid subsequently, shall conform to the grade and cross section of previously laid pavement. Where semi-mechanized method of construction is used, the concrete along the face of all joints shall be compacted with an internal vibrator inserted in the concrete and worked along the joint to ensure a concrete free from honeycombing. In case of mechanized construction, working and vibration/RPM of all the fixed vibrators shall be checked. There shall be two additional needle vibrators to compact the concrete near bulk head.

13.3 The Sealing of joints shall be done in the same manner as for contraction joints, by cutting a groove of 10mm wide and 25mm deep as shown in Appendix 'A-2'.

14.0 EXPANSION JOINTS

14.1 **Expansion joints are essential where cement concrete pavement is designed to abut with structures like bridges, culverts, etc. and at junction of building and pavement. Expansion joint shall also be provided at the intersection of runway, taxiway and Apron.** The expansion joint shall be straight, extend through the full depth of the slab and shall be of the shape and dimensions shown on the drawing. The slab edges adjacent to the joint shall be formed truly vertical.

14.2 Where semi-mechanized method of construction is used, the concrete along the face of all joints shall be compacted with an internal vibrator inserted in the concrete and worked along the joint to ensure a concrete free from honeycombing. In case of mechanized construction, working and vibration/RPM of all the fixed vibrators shall be checked. There shall be two additional needle vibrators to compact the concrete near bulk head.

14.3 Synthetic expansion joint filler board as per specification shall be used to fill the gap between adjacent slabs at expansion joint. The joint groove shall be filled with Polysulphide conforming to grade B.S.: 5212-1990 or IS: 11433-1995. Prior to filling with Polysulphide, the joints shall be cleaned by compressed air up to full depth and primed properly with appropriate Polysulphide primer up to back-up rod and masking tape shall be applied along the edges of joint to prevent spillage of sealant on top surface to give neat finish to sealant. The masking tape shall be

removed after the sealant has been applied and tooled. The details of expansion joint shall be as given in Appendix –‘A-2’.

15.0 APPLICATION OF POLYSULPHIDE JOINT SEALING COMPOUND

15.1 Materials

- 15.1.1 **Sealant:** It shall be cold Polysulphide sealant of approved make conforming to BS: 5212-1990 or IS: 11433-1995.
- 15.1.2 **Back-up Rod/Backer Rod:** Type of material shall be Expanded closed cell Polyethylene foam and shall conform to ASTM C-529-95 or ASTM D 3575.
- 15.1.3 **Primer:** It shall be applied on the concrete faces of the joints. It shall be single component primer suitable for use with Polysulphide joint sealant, as approved by the Engineer-in-Charge.
- 15.1.4 **Joint Filler Board:** The joint filler shall be Synthetic joint filler board of approved make. It shall be 25mm thick within a tolerance of +1.5mm and of a firm compressible material and complying with the requirements of IS:1838 (Part 3):2011 with a compressibility more than 25%. It shall be provided to the full width between the side forms. If two pieces are joined to make up full width, the joint shall be taped such that no slurry escapes to the joint. The physical requirement of filler shall be as per the table given below:

S. No	Characteristics	Requirement	Method of test, Ref. to IS
1	Resistance to handling	Filler strips shall not be deformed or broken by twisting, bending or other types of ordinary handling when exposed to atmospheric condition (see note)	-
2	Recovery	90% min.	10566
3	Compression	a) Load required to compress the specimen to 50% of its original thickness before the test shall be (i) 7 kgf/cm ² , min. (ii) 53 kgf/cm ² , max.	-do-
4	Extrusion	Amount of extrusion of the free edge shall not exceed 6mm	-do-
5	Water Absorption	1%, max.	-do-
6	Density	100 ± 10 kg/m ³ , min.	-do-

7	Weathering	a) shall show no sign of disintegration, delamination or separation after the test b) shall satisfy the requirement of recovery,	-do-
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Note: Pieces of joint filler that have been damaged shall be rejected.

In order to ensure that sides of the PQC pavement in the portion of above expansion joint filler board do not get dirty and this space does not accumulate pieces of aggregates and other foreign materials, precaution is required to be taken as indicated in note 1 given below.

Note:

1. Expansion joint filler board should be provided upto the top of finished pavement surface. At the time of filling the joint with sealant material and back-up rod/baker rod, the required depth of joint filler board from the top upto the bottom of back-up rod/baker rod should be cut & removed. For easy removal of top filler board and to avoid damage to the filler board, a pre-cut in the expansion joint filler board shall be provided at a suitable depth so that back-up rod/baker rod & sealant could be filled after removal of the top cut portion of the filler board. Nothing extra shall be paid for the filler board from top upto the bottom of back-up rod/baker rod.
2. As the period for the test will be around three weeks, advance planning is required to avoid any delay on this account.

15.2 PROCEDURE

- 15.2.1 **Preparation of Surface:** All the joint surfaces to which the sealant is to be applied should be clean, dry and free from any loose material, dirt, dust, scale, protective lacquer, grease.
- 15.2.2 Expansion joint filler material must be checked to ensure that it is tightly packed and no gaps or voids exist at the base of the joint slot.
- 15.2.3 Sealant should be prepared as per manufacturer's specifications.
- 15.2.4 Before sealant is applied, primer shall be applied to secure better adhesion between sealant and the concrete surface. The surface shall be allowed to dry for at least 30 minutes but no longer than 3 hours before the sealant is applied.
- 15.2.5 To prevent accidental spillage of sealant on the top surface and to give a neat finish, masking tape should be applied along the edge of joint before the sealant material is filled.
- 15.2.6 Immediately after filling the joints, the sealant should be tooled either with a stainless steel or wooden spatula of the size of the joint to give a smooth surface. While tooling, the spatula should be wetted with a wetting agent like soap water. Masking tape shall be removed immediately after the sealant has been tooled. By tooling, the sealant is compressed with the result that air bubbles if any, are broken up and the sealant becomes free of voids and there is a proper adhesion of the sealant to the sides of the joints.

15.3 Sealant of approved make shall be filled only after complete curing of concrete i.e., after 28 days. Sealant shall be applied slightly to a lower level than the slab with a tolerance of 1+0.5mm as shown in Appendix –‘A-2’

15.4 Sealant of approved make shall be filled up for a depth as specified in item. The rate of application of sealant may be calculated on the basis of the following formula:

Number of 1 Kilogram tins required = $0.0015 \times L \times W \times D$

Where L = Length of joint in meters

W = Width of joint in mm.

D = Depth of joint in mm.

15.5 Manufacturer’s certificate shall be produced for establishing that the sealant is not more than six months old or the shelf-life of the sealant. For storage, preparation of sealant, health and safety precautions etc., manufacturer’s specifications shall be applicable.

15.6 A typical sketch showing details of filling of joints is enclosed as Appendix -‘A- 2’.

16.0 QUALITY CONTROL

16.1 The following quality control tests shall be carried out at frequencies specified against each, as per the table given below:

S.No	Test	Test Method	Frequency	Acceptance Criteria
I	Cement			
	Physical and chemical tests	IS:4031, IS:4032	Once for each source of supply and every 200 tonnes or part thereof. Cement remaining in stores for more than one and half month from the date of manufacture must be retested before use and to be rejected, if it fails to conform to any of the requirements of the specifications. Each brand of cement brought to site shall be tested as per this frequency. Besides, the Contractor also will submit daily test report on cement released by the manufacturer.	As per relevant code as per Para 1.1

S.No	Test	Test Method	Frequency	Acceptance Criteria
II	Coarse aggregate			
	a) Flakiness Index	IS:2386 (Part-I)	Before approval of the quarry and at every subsequent change in the source of supply and one test for every 2000 cum of aggregate	Not more than 25%
	b) Impact value or Los Angeles abrasion value	IS:2386 (Part-IV)	- do-	Not more than 30%
	c) Water Absorption	IS:2386 (Part III)	-do-	Not more than 3%.
	d) Deleterious materials	IS:2386 (Part II)	Before approval of the quarry and at every subsequent change in the source of supply.	As per table -2 of IS: 383
	e) Moisture content	IS:2386 (Part III)	Regularly as required subject to a minimum of one test per day	This data shall be used for correcting the water demand of the mix on a daily basis
	f) Grading	IS: 2386 (Part-I)	One test per day on each size of aggregates	As per Table - 7 of IS: 383
	g) Soundness (i) Loss with Sodium	IS 2386 (Part V)	Before approval of the quarry and at every subsequent change in the source of supply	Max. 12% Max. 18%
	Sulphate for 5 cycles (ii) Loss with Magnesium Sulphate with 5 cycles			
	(h) Presence of ferrous sulphide and iron oxide	As per clause 1.3.1	Before approval of the quarry and at every subsequent change in the source of supply.	No presence of ferrous sulphide and iron oxide

S.No	Test	Test Method	Frequency	Acceptance Criteria
III	Fine Aggregates			
	a) Silt Content	CPWD Specification 2019 Vol. I, Page 76, Appendix –C	One test per 200 cum and part thereof	Not more than 8%
	b) Grading	IS : 2386 (Part-III)	-do-	Fineness modulus between 2.5 to 3.9
	c) Water Absorption	IS : 2386 (Part-III)	-do-	Not more than 3%
	d) Deleterious materials	IS: 2386 (Part-II)	Before approval of the quarry and at every subsequent change in the source of supply.	As per table 1 of IS 383
	e)Moisture content	IS:2386 (Part-III)	Regularly as required subject to a minimum of two test per day.	This data shall be used for correcting the water demand of the mix on a daily basis.
IV	Combined Grading of Aggregates			
	a) Grading	IS: 2386 (Part-I)	1 test per 150 cum and part thereof	As per Para 12.5.6
V	Concrete			
	a) Slump test of concrete	IS : 1199	At least once in 50 batches at each mixer or more frequently if directed by the EIC.	As per Para 12.5.10
	b) Flexural strength	IS : 516	One test consisting of six beam specimens and 6 cubes. Three specimens shall be tested after 7 days and another three shall be tested after 28 days for every 200 Cum of Concrete & part thereof	As per Para 13.4
	c) Surface accuracy	As prescribed	Regularly	As per Para 12.5.33
VI	Polyethylene sheet	IS:2508 Density Tensile strength at break Melt flow Index	One test per lot	As per IS:2508

- 16.2** Equipment as per list at Appendix-‘B-1’ shall be provided by the Contractor in the field testing laboratory. Nothing extra shall be paid to him on this account. Records as required shall be maintained at site.

All test details in support of mix design shall be maintained as part of records of the contract and shall be signed both by the contractor and the Engineer- in-Charge or their authorized representatives. The contractor shall provide all labour, materials and equipment required for all tests to be carried out, at his own cost.

- 16.3** The Engineer-in-Charge reserves the right to test any concrete laid regarding quality, soundness, compaction, thickness strength and finish of the concrete at any time before the expiry of the “Defects Liability period” notwithstanding that necessary tests had been carried out and found satisfactory at the time of execution.

16.4 QUALITY CONTROL AND STANDARD OF ACCEPTANCE OF STRENGTH OF CONCRETE

- 16.4.1** Samples of concrete shall be collected at the point of discharge on the pavement and beams cast as controlled specimens and tested in accordance with IS: 516 and IS: 1199. The concrete will be said to comply with the specified flexural strength, when the following conditions are met with.
- a) The mean strength determined from any group of four consecutive samples (each sample containing 3 beam specimen i.e. $4 \times 3 = 12$ beam specimens) at 28 days should exceed the specified characteristic flexural strength by at least 0.3 MPa i.e., 4.4 MPa.
 - b) The strength of any specimen is not less than the specified characteristic flexural strength minus 0.1 MPa i.e., 4.0 MPa.
- 16.4.2** Should the concrete fail to pass the specification for strength as described above, the contractor may, all at his own expense elect to cut cores (diameter of the core not less than 150mm) as per the direction of Engineer-in-Charge where the requirements are not met with. The points from where cores are to be taken and the number of cores required shall be at the discretion of the Engineer-in-Charge and shall be representative of the whole of concrete concerned. In no case, however, shall fewer than 3 cores be tested.
- 16.4.3** Cores shall be prepared and tested as described in IS 516. Concrete in the member represented by a core test shall be considered acceptable if the average of the results of crushing strength tests of the cores shall not be less than 0.8×0.85 times the corresponding Characteristic compressive strength of cubes and no individual core has a strength less than 0.8×0.75 times the corresponding Characteristic compressive strength of cubes where height to diameter ratio of the core is 2. Where height to diameter ratio of the core is not 2 necessary corrections shall be made in calculating crushing strength of cubes as per clause 12.21.1 of IRC:15-2017.

Sample calculation for required core strength is placed below for core cut with height to diameter ratio of core is 2:

$$\text{Flexural strength } f_{cr} = K\sqrt{f_{ck}}$$

$$f_{cr} = 4.1 \text{ MPa}$$

$$4.1 = K\sqrt{f_{ck}}$$

K - value as derived in clause 4.5

$$f_{ck} = 16.81/K^2$$

Average core strength required = $0.8 \times 0.85 \times f_{ck}$ MPa Individual

core strength required = $0.8 \times 0.75 \times f_{ck}$ MPa

- 16.4.4 If however, the tests on cores also confirm that the concrete is not satisfying the strength requirements, then the concrete corresponding to the area from which the cores were cut should be replaced, i.e., over an area extending between two transverse joints where the defects could be isolated or over larger area as decided by the Engineer-in-Charge.
- 16.4.5 All defective and sub-standard work which includes concrete slab of sub-standard strength as established in above para shall be liable to rejection and shall be replaced by the contractor at his expense. Acceptance criteria for cracked concrete slabs shall be as follows (ref. clause 12.33 of IRC-15-2017):
- i) Fine crazy cracks (Plastic shrinkage cracks) with cumulative length of 3000mm in a slab can be accepted after repair as per IRC:SP-83. Beyond cumulative length of 3000 mm, it shall be rejected.
 - ii) Slabs with cracks running transversely or longitudinally penetrating to full depth and length of the slab are to be rejected.
 - iii) Slabs with any type of cracks which are penetrating to more than half the depth shall be rejected. (ref. clause 12.33 of IRC-15-2017).
 - iv) When due to operational or any other reason, such replacement does not become possible (decision of Engineer-in-charge in this respect being final and binding on the contractor), the cost of removal and replacement of such rejected work shall be recovered from the contractor whether such rejected work is subsequently replaced by the Deptt. or not.

17.0 WEATHER LIMITATIONS

- 17.1 **Concreting during rains:** To prevent damage to freshly laid concrete during monsoon, or sudden rains, the Contractor shall provide an adequate supply of tarpaulins or other water-proof material. Any concrete damaged by rain shall be removed and replaced by the Contractor at his own cost as directed by the Engineer-in-Charge. If need be, necessary provisions shall be made to support the water-proof material clear of the newly-laid concrete surface to prevent smoothening or any damage due to the contact with tarpaulin. The whole unit should be weighted down appropriately to prevent from blown off by winds. The rate quoted shall include all these.

- 17.2 Concreting in hot weather:** No concreting shall be done when the concrete temperature is above 30°C. Besides, in adverse conditions like high temperature, low relative humidity, excessive wind velocity, imminence of rains etc. if so desired by the Engineer-in-charge, tents on mobile trusses may be provided over the freshly laid concrete for a minimum period of 3 hours as directed by the Engineer-in-charge. The temperature of the concrete mix on reaching the paving site shall not be more than 30°C. To bring down the temperature, if necessary, chilled water or ice flakes should be made use of. No extra payment shall be made for this arrangement.
- 17.3 Concreting in cold weather:** No concreting shall be done when the concrete temperature is below 5°C.

18.0 MEASUREMENTS

- 18.1** For the purpose of ascertaining the quantity of concrete in the pavement length, breadth and thickness shall be measured as detailed below:

a) Length

- i) Between the end of a pavement to the center line of the construction / expansion joints.
- ii) Between the center lines of consecutive construction/expansion joints.

b) Width

- i) Between the edge of a pavement and the center line of the construction joints.
- ii) Between the center lines of construction joints and expansion joints.
- iii) Between the center lines of construction joints and expansion joints.
- iv) Between the center lines of consecutive construction joints.

c) Thickness

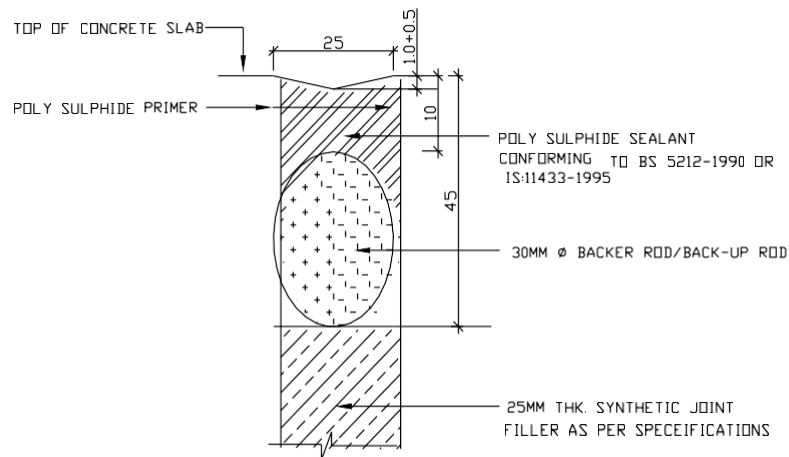
Levels shall be taken before and after construction, at the grid of points 5 metre centre-to-centre longitudinally in straight reaches for each panel and 2.5 metre centre-to-centre at curves. The levels shall also be taken transversely, at 0.75 metre from either edge of the and the remaining locations shall be at equi-distance but not more than 2 metre in the balance portion of panel. The average thickness of the pavement course in any panel shall be the arithmetic mean of the difference of levels before and after construction at all the grid points falling in that panel, provided that the thickness of finished work shall be limited to those shown on the drawings or approved by the Engineer-In- Charge in writing. As supplement to level measurements, the Engineer shall have the option to take cores/ make holes to check the depth of construction. The holes made and the portions cut fortaking cores shall be made good by the Contractor by laying fresh mix/material including compacting as required at his-own cost immediately after the measurements are recorded.

The finished concrete courses to be paid on volume basis by multiplying length , breadth and thickness as measured above and its volume shall be calculated in

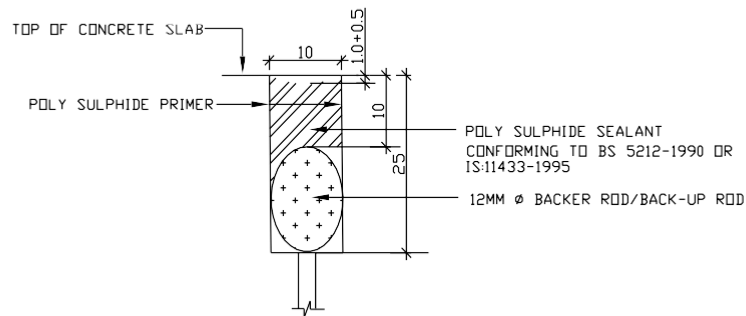
Cubic metres correct to two places of decimal. Measurements of concrete slabs shall be recorded in aforesaid manner jointly by the Engineer-in-Charge or his authorized subordinate and the Contractor or his authorized agent.

19.0 RATE

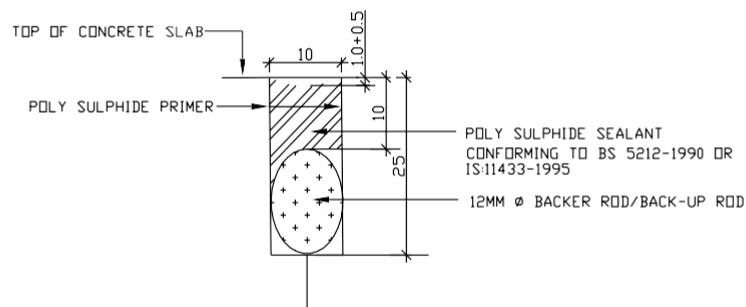
19.1 The rate of the item for concrete in pavement shall include the cost of all materials and labour including charges for machinery tools & plants, making profile including taking levels including all cartages and lift required in all the operations described above complete in all respects for a successful completion of the job. The rate also includes cost of mix design from outside laboratory, trial mix, all costs of setting up of laboratory at site and carrying out the quality control measures/tests enumerated above by the Contractor at his own cost in the presence of Engineer-in-Charge or his authorized representative, and submission of test results on completion of tests to the Engineer-in-Charge thereof.



EXPANSION JOINT



CONTRACTION /DUMMY JOINT



CONSTRUCTION JOINT

AIRPORTS AUTHORITY OF INDIA
O/o ED, ENGG.-MIS & STD.

No: AAI/ED(Engg.)/MIS&STD/Tech-Cir./2025/P-173/41

Date: 17 Oct, 2025

Technical Circular No. 04/2025 (R-1)

Subject: Preferred make list of Civil Engg. items for use in AAI works- reg.

1. In reference to TC No. 04/2025 dated 17/07/2025 concerning above cited subject, Annexure -A is revised and enclosed herewith.
2. Other terms and conditions of TC 04/2025 dated 17/07/2025 and Amendment dated 10.09.2025 shall remain same.
3. All concerned are directed to strictly adhere to the above amendment while inviting tenders. For tenders where technical bids have not yet been opened, the above amendments as applicable, must be incorporated in to the tender documents through corrigendum.
4. These instructions must be circulated to all concerned for strict adherence.
5. This issues with the approval of competent authority.
6. All Technical Circular can be accessed at the AAI website: www.aai.aero/en ⇒ Emp_Login ⇒ Circular & Orders ⇒ Dept. (Engineering) ⇒ Circular Types (Circular) ⇒ Search

Enclosure: Annexure-A


(J T Radha krishna)
ED, Engg.-MIS & STD.

Distribution: As per standard list

LIST OF PREFERRED MAKES FOR USE IN AAI WORKS

1. Brand names of materials to be used are listed here and indicative only. Mere inclusion of brand name in this list does not guarantee for use in work unless specification of brand meets technical specifications of product as stipulated in tender document. The specifications of the products as mentioned in this tender document shall take preference over the make list. The contractor will be required to provide items/material as per the specifications indicated in tender document.
2. The following list of preferred makes is exhaustive. However, additional manufacturers or brands may be considered for any specified product or item, depending on market availability, delivery timelines, and proven satisfactory performance in similar projects or works-preferably where such a make or product has been used in quantities constituting at least eighty percent (80%) of the estimated or proposed requirement for the relevant project or work. To establish performance, completion certificates, performance certificates and purchase orders accompanied by tax invoices will be considered, provided that the products comply with the technical specifications stipulated in the tender document."
3. In case, Model no. of any product as mentioned in tender document is discontinued by manufacturer (documentary evidence from manufacturer is must to establish this), then contractor is bound to provide latest model of same manufacturer subject to meeting the technical specification without any financial implication.
4. The tenderers shall quote his rates on the basis of the price for the best quality product of the brand/make stipulated for the item of work in the list of preferred make/specifications. The agency shall submit at least three brands from the list given below along with the rates (having price variation within 10%) and specifications for the approval of Engineer-in-Charge before placing order. EIC shall approve any of the two brands.

S. No.	Item Name	Brands / makes / Manufacturers
1.	CEMENT	ACC Ltd. / Ultra Tech / Shree Cement Ltd. / Ambuja / Jaypee / Century / J.K.Laxmi (JK Lakshmi Cement Ltd.) / JK Cement / Nuvoco / Dalmia Cement (Bharat) Ltd. / Birla A1 (Orient cement Ltd.) / Star Cement / PENNA / Max Cement / Ramco Cement / Chettinad Cement / Wonder (Wonder Cement Limited) / JSW Cement / Zuari Cement / Prism Cement
2.	TMT REINFORCEMENT STEEL	SAIL / RINL (VIZAG Steel) / TATA TISCON (TATA Steel Limited) / JSW Steel Ltd. / JSPL / Shyam Steel Industries Ltd. / ESL Steel Ltd. / Shyam Metaliks & Energy Ltd. / Shri Bajrang Power & Ispat Ltd. / Rashmi Metaliks Limited / SRMB Srijan Private Limited / MS Agarwal Foundries Private Limited / Real Ispat and Power Limited / Jai Balaji

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S. No.	Item Name	Brands / makes / Manufacturers	
		Industries Limited / Maithan Steel & Power Limited / Shree Nakoda Ispat Limited	
3.	STRUCTURAL STEEL-MS TUBULAR SECTIONS (CIRCULAR, SQUARE, RECTANGULAR) FOR COLUMNS, TRUSS, MS PIPES, FLATS, ANGLES, BEAMS, CHANNELS, STRIPS ETC.	SAIL / RINL (VIZAG Steel) / TATA Structura (TATA Steel Limited) / JSW Steel Ltd. / JSPL / APL Apollo Tubes Ltd. / Shyam Metalics & Energy Ltd. / Surya Roshni Ltd.	
		Nezone Tubes Ltd. / Utakarsh India Ltd. / Hi-Tech Pipes Ltd.	For works costing up to 15 Cr works
4.	VITRIFIED / CERAMIC TILES	Prism Johnson Limited (H&R Johnson (India) Ltd.) / NITCO Tiles Ltd. / Orient Bell Ltd. / Oracle Granito Ltd. / Kajaria Ceramics Ltd. / RAK Ceramics (RAK Ceramics Ltd.) / AGL(Asian Granito India Ltd.) / Oasis Vitrified Tiles(Oasis Vitrified Pvt. Ltd.) / Varmora Granito Pvt. Ltd. / Qutone Ceramic Pvt. Ltd. / Ambani Vitrified Pvt. Ltd. / Simpolo Vitrified Pvt. Ltd. / Pavit Ceramics Pvt. Ltd. / Aparna Enterprises Ltd. / SUNHEAART CERAMIK(Sunshine Tiles Company Pvt. Ltd)	
5.	ALUMINIUM STANDING SEAM ROOFING SYSTEM	KALZIP (Kalzip India Pvt. Ltd.) / Kingspan (Kingspan Jindal Pvt. Ltd) / BEMO(Bemo System GmbH) /	
		New Look Furnishers	For roofing work upto 15,000 sqm.
6.	METAL CEILING TILE / BAFFLE CEILING	Hunter Douglas India Pvt. Ltd. / Durlum India Pvt. Ltd. / Saint Gobain Gyproc India Ltd. / Knauf Ceiling Solutions(India) Pvt. Ltd.(Formerly Armstrong World Industries (India) Pvt. Ltd.) / USG Knauf (Knauf India Pvt. Ltd.) / Dexune(Dexune Marketing Pvt Ltd.) / Ceiflo Technologies Pvt. Ltd./ New Age FalseCeiling Pvt. Ltd.	
7.	GALVALUME/ STEEL SHEET ROOFING (TOP & BOTTOM) OVER MS TRUCTURE	Tata Bluescope Steel Ltd. / Jindal Steel (Jindal India Ltd.) / JSW Steel Coated Products Limited / APL Apollo Building Products Private Limited / Colorshine Coated Pvt. Ltd.	
8.	ALUMINIUM COMPOSITE PANELS (ACP)	Alucobond (3A Composite India Pvt. Ltd.) / Alstrong Enterprises India Pvt. Ltd. / Aludecor Lamination Pvt. Ltd / EUROBOND(Euro Panel Product Ltd.) / Alstone(Alstone International) / VIVA(Viva Composite Panel Pvt Ltd.) / Alutech(Alutech Industries) / VIRGO(Virgo Laminates Ltd.) / Alutuff(Ashoka foam multiplast Pvt. Ltd.) / Alexia Panels / Timexbond Industries Pvt. Ltd.	
9.	HONEYCOMB COMPOSITE PANELS (HCP)	Alucobond(3A Composite India Pvt. Ltd.) / Aludecor Lamination Pvt. Ltd / EUROBOND (Euro Panel Product Ltd.)/ Alstone(Alstone International) / VIVA(Viva	

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S. No.	Item Name	Brands / makes / Manufacturers
		Composite Panel Pvt Ltd.) / Alutuff (Ashoka foam multiplast Pvt. Ltd.)
10.	ZINC COMPOSITE PANELS (ZCP)	Aludecor Lamination Pvt.Ltd / Alstone (Alstone International) / VIVA (Viva Composite Panel Pvt Ltd.) / EUROBOND(Euro Panel Product Ltd.)
11.	ALUMINIUM EXTRUSIONS / STRUCTURAL MEMBERS	Hindalco Industries Ltd. / Jindal Aluminium Ltd. / Boruka (Boruka Extrusions Pvt. Ltd.) / NALCO
12.	FLOAT GLASS / HIGH PERFORMANCE GLASS / GLASS MIRROR	Saint Gobain Glass India Ltd. / AIS Glass Solution Ltd / Pilkington / (Guardian Sun Guard /Modi Guard) (Gujarat Guardian Limited) / Sisecam Flat Glass India Pvt. Ltd. / Gold Plus Glass Industry Ltd. / TPRS Enterprises Pvt. Ltd. / Atul Ltd.
13.	UPVC DOORS & WINDOW	Aparna venster /Okotech (Aparna Enterprises Ltd.) / Fenesta (Fenesta Building Systems) / Aluplast / NCL Veka Ltd. / Window Magic India Pvt. Ltd. / Rajshri Plastiwood
14.	WOOD POLYMER COMPOSITE(WPC)	ECOBORD (Alstone Industries Pvt. Ltd.) / Rajshri Plastiwood (Div. of Rajshri Productions Pvt. Ltd.) / KAKA Industries Ltd.
15.	ADMIXTURES / WATER PROOFING COMPOUND/ ACRYLIC CEMENTITIOUS COATING/ LIQUID MEMBRANE (POLYURETHANE & POLYUREA)/ HDPE & SELF ADHESIVE MEMBRANE	Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / CICO Technologies Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / MC-Bauchemie (MC-Bauchemie India Pvt. Ltd.) / Ardex Endura (India) Pvt. Ltd. / STP Ltd. / Choksey Chemicals Pvt. Ltd. / MYK Laticrete (MYK Laticrete Pvt. Ltd. / Mapei (Mapei Construction Products Pvt. Ltd) / Chryso India Pvt. Ltd. / Maruti Bitumen Pvt. Ltd. / Penetron India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Asian Paints Ltd. / IWL India Ltd. / TP Buildtech Pvt. Ltd. / MYK Arment Pvt. Ltd. / Technonicol India Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / Ferrous Crete(India) Pvt. Ltd. / Fair Mate Chemicals Pvt. Ltd. / Berger Paints India Ltd. / Yahska Polymers Pvt Ltd / Hindcon Chemicals Ltd / Buildtech Products India Private Limited / Kryton Buildmat Co. Pvt. Ltd. / Kunal Conchem Pvt Ltd / Bostik India Private Limited / M.K Petro Products India Private Limited / Prism Johnson Limited / Boxer Construction Chemicals / Ado Additives Technologies Limited / Sunanda Speciality Coatings Pvt Ltd / Tikitar Danosa(India) Pvt Ltd
16.	BIPOLAR CORROSION INHIBITOR ADMIXTURE	STP Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Chryso India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Sunanda Speciality Coatings Pvt Ltd / Conchem Labs LLP / Fosroc Chemicals (India) Private Limited
17.	REINFORCEMENT COUPLER	Dextra / G-Tech / HI-Tech Engineering Solutions / Sanfeild (India) Ltd. / Tata Steel Limited

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S. No.	Item Name	Brands / makes / Manufacturers
18.	HARDWARE FITTING	Dormakaba India Pvt. Ltd. / Q-Railing India Pvt. Ltd. (Formerly D-Line) / Hafele India Pvt. Ltd. / GEZE GmbH / Linx Technology Pvt. Ltd. / Assa Abloy / Kich Architectural Products Pvt. Ltd. / Godrej & Boyce / LGF Sysmac India Pvt. Ltd. / Rinox Kaufmann Ltd. / Ozone India Pvt. Ltd. / Everite / Define / Hardwyn(Hardwyn India Ltd.) / Arkay / Dorset Industries Pvt. Ltd. / Prayag Polymers Pvt. Ltd. / Hettich India Pvt. Ltd. / Ozone Overseas Pvt. Ltd.
19.	STEEL/WOOD FIRE RESISTANT SHUTTER	Navair Ltd. / Pormat International Ltd. / Shakti Hormann Pvt. Ltd. / Sukri Paints & Chemicals / Iclean / Signum Fire Protection / Pacific(Pacific Fire Controls Pvt. Ltd.) / ASES Security Pvt. Ltd.
20.	LAMINATES/ LAMINATED PARTICLE BOARD/ PRELAMINATED BOARD/ MDF/ PLY BOARD/FLUSH DOORS/ COMPACT LAMINATE TOILET CUBICAL/ URINAL PARTITIONS	Greenlam Industries Ltd. / Merino Industries Ltd. / Century Plyboard (I) Ltd. / Nationl Ply / Archidply(Archidply Industries Limited) / Kitply Industries / Novapan / Duro / Mayur Doors / Greenply / ASIS / Greenpanel Industries Limited / Punjab Plywood Industries / Stylam Industries Ltd. / Bobrick Washroom Equipment Inc. / Dormakaba India Pvt. Ltd. / Trespa / T-Line(Inner Space) / Samrat Plywood Limited / Jain Doors Pvt Ltd / Jain Wood Industries / Arjwoodmart Private Limited / Virgo Laminates Ltd
21.	FASTENERS/ANCHOR FASTENERS	Hilti(Hilti (India) Pvt. Ltd.) / Fischer / BOSCH / Fasteners India / Mungo / Rawl Plug / Konzept Steel Private Limited / Axel India / AFT (Anchorite Fixing Technology)
22.	WOODEN LAMINATED FLOORING/ VINYL FLOORING / RUBBER FLOORING	Pergo Ltd. / Action Tesa / Unitex / Knauf Ceiling Solutions(India) Pvt. Ltd.(Formerly Armstrong World Industries (India) Pvt. Ltd.) / Epitome / Scheit / Responsive Industries Ltd. / Greenlam Industries Ltd. / Greenpanel Industries Ltd.
23.	EPOXY/PU FLOORING	STP Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / Tremco CPG (India) Pvt. Ltd. / Cipy Polyurethanes Pvt. Ltd / NITCO Tiles Corp. / Maruti Bitumen Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Chryso India Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / Bostik India Pvt Ltd. / Asian Paints Ltd. / Pidilite Industries Ltd. / Berger Paints India Ltd. / MYK Arment Pvt. Ltd. / Hygie Profile India Pvt Ltd / Sunanda Speciality Coatings Pvt Ltd
24.	TILE JOINT FILLER, TILE/AAC BLOCK/ STONE FIXING ADHESIVE/ SOLID EPOXY GROUT	Ardex Endura (India) Pvt. Ltd. / Ferrouscrete India Pvt.Ltd / MYK Laticrete (MYK Laticrete Pvt. Ltd.) / Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / BASF India Ltd. / Fairmate(Fair Mate Chemicals Pvt.Ltd.) / STP Ltd. / Home Pride Adhesive Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / Berger Paints India Ltd. / Somany Ceramics Ltd. / Ultratech Cement Ltd / Kerakoll India

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S. No.	Item Name	Brands / makes / Manufacturers
25.	FLOOR HARDENER	STP Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / Ironite / Mapei (Mapei Construction Products Pvt. Ltd.) / Chryso India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / MYK Arment Pvt. Ltd.
26.	POLYCARBONATE SHEET	Lexan/Sabic (GE Plastic) / Dan Pal / Polygal India Pvt. Ltd. / Gallina India Pvt. Ltd. / Coxwell Domes (Coxwell Domes Engineers Pvt. Ltd.) / Tuflite / DPI Daylighting Pvt Ltd.
27.	CALCIUM SILICATE /MINERAL FIBER FALSE CEILING TILES/GYPSUM FALSE CEILING BOARDS/ GYPSUM PARTITION BOARDS	Saint Gobain Gyproc India Pvt. Ltd. / Llyod Insulation India Ltd. / Knauf Ceiling Solutions(India) Pvt. Ltd.(Formerly Armstrong World Industries (India) Pvt.Ltd./Knauf AMF India Pvt. Ltd.) / (Aerolite Ceiling System/Andhra Polymers Pvt. Ltd.) / USG Knauf (Knauf India Pvt Ltd.) / Hilux(Ramco Industries Ltd) / Gridline / Everest / Dexune (Dexune Marketing Pvt Ltd.) / Vans Gypsum / New Age FalseCeiling Pvt. Ltd.
28.	FIBER CEMENT BOARD/ CEMENT BOARD	Bison (NCL Industries Ltd.) / Hicem(Ramco Industries Ltd.) / Everest (Everest Industries Ltd.) / Visaka Industries Ltd.
29.	PAINTS FOR STEEL STRUCTURE (EPOXY PAINTS)/ PU PAINTS WATER PROOF CEMENT PAINTS/ PRIMER/DISTEMPER / TEXTURE FINISH PAINT/ SYNTHETIC ENAMEL PAINT/ FIRE RETARDANT PAINT	JSW-Akzo Nobel India / Jenson & Nicholson / Oikos India Pvt.Ltd. / Asian Paints Ltd. / Berger Paints India Ltd. / Nerolac / Acro Paints Ltd. / Snowcem India Ltd. / Shalimar (Shalimar Paints Ltd.) / Jotun / Grauer & Weil (India) Ltd. / STP Ltd. / Hempel Paints India Pvt. Ltd. / Anupam Enterprises / Dooall Corpro India Pvt Ltd / Nippon Paint India Private Limited / FOSROC Chemicals (India) Private Limited
30.	WALL PUTTY	J.K.Cement / Toyo Ferrouscrete India Pvt. Ltd. / Birla White / Dalmia Magic Premium Skim Coat(Dalmia Cement (Bharat) Ltd.) / Asian Paints Ltd. / NCL Buildtek Pvt. Ltd. / Ferrous Crete(India) Pvt. Ltd. / Saint-Gobain India Pvt. Ltd. / Nippon Paint India Private Limited
31.	EXPANSION JOINT FILLER BOARD/ JOINT COVERS	Vexcolt International Ltd. (U.K) / Construction Specialities (USA) / The Supreme Industries Ltd. / STP Ltd. / Dupont / Sanfeild / Hercules / Z-Tech / DECG International / M.M.Systems / Kantaflex-Balco / Kantaflex (India) Pvt. Ltd. / Mapei(Mapei Construction Products Pvt. Ltd.) / Migua / Insuboard / Soprema / Supreme Bituchem India Pvt. Ltd. / Pinnacle Solutions / VR Engineers
32.	GLASS GRID FOR BITUMINOUS WORKS	Saint Gobain ADFORS / Maccaferri Environmental Solutions Pvt. Ltd. / Techfab Industries Ltd. / Giridhar Techfab Pvt. Ltd. / Terrain Infratech / Flexituff International Ltd. / Supreme Non-Woven Ind. Pvt. Ltd. / Polyon Textiles Private Limited

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S. No.	Item Name	Brands / makes / Manufacturers
33.	RUNWAY MARKING PAINT (WATER BASED)	Nerolac / Berger Paints(Berger Paints India. Ltd.) / Asian Paints Ltd. / ITS Coating Pvt.Ltd. / Supreme Bituchem India Pvt. Ltd. / STP Ltd.
34.	SANITARY WARE/ FIXTURE/ FITTINGS/ SS SINK / SPECIALLY- ABLED FITTING	Kohler Co. (USA) / Jaquar and Company Pvt. Ltd. / American Standard / (HINDWARE / QUEO) (Hindware limited) / (PARRYWARE / ROCA) (Roca Bathroom Products Pvt. Ltd.) / Grohe AG (Germany) / Franke (Switzerland) / Bobrick Washroom Equipment Inc. / Duravit / Marc / H&R Johnson (India) Ltd/Prism Johnsons Ltd. / (CERA/Senator)(Cera Sanitaryware Ltd.) / Somany Ceramics Ltd. / Dolphy India Pvt. Ltd. / Rak Ceramics India Pvt. Ltd / Nirali (Jyoti Kitchen Industries Pvt. Ltd.) / Jayna / Pressalit Ltd. / Hindustan / Aqua Plumbings Pvt Ltd / Astral Ltd Euronics (Euronics Industries Pvt.Ltd.) (Except SS Napkin and Soap Dispenser)
35.	G.I. PIPE FITTINGS	Unik / Zoloto Malleables / Leader Valves Ltd. / Surya / R-Brand / KS / SS
36.	SOIL WASTE & VENT PIPES & FITTINGS AND WATER SUPPLY PIPES-SAND CAST IRON S&S/ CENTRIFUGALLY CAST (SPUN) S&S/ HUBLESS CENTRIFUGALLY CAST SPUN IRON PIPES/ CENTRIFUGALLY (SPUN) CI PIPES CLASS 'LA'/ DUCTILE IRON PIPE/ CI MANHOLE COVERS & CI GRATING	NECO(Jayaswal Neco Industries Ltd.) / BIC (Bengal Iron Corportation) / RIF / Electrosteel Steels casting Ltd. / SKF / Kapilansh Dhatu Udyog(P) Ltd. / Saint Gobain / HEPCO(Binay Udyog Pvt Ltd.) / Raj Pattern Makers & Founders Pvt. Ltd.
37.	STRUCTURAL/ WEATHER SEALANT FOR STRUCTURAL GLAZING/ACP	Wacker / Dow corning / G.E. Plastics / Pidilite Industries Ltd. / FOSROC Chemicals (India) Pvt. Ltd. / BASF India Ltd. / STP Ltd. / Rawl Plug / Choksey Chemicals Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Maruti Bitumen Pvt. Ltd. / Sika India Pvt. Ltd. / Alstone Industries Pvt. Ltd.
38.	POLY SULPHIDE / POLYURETHANE SEALANT FOR JOINTS	FOSROC Chemicals (India) Pvt. Ltd. / Choksey Chemicals Pvt. Ltd. / Pidilite Industries Ltd. / Sika India Pvt. Ltd. / Dow corning / MYK Laticrete (MYK Laticrete Pvt. Ltd.) / Tuffseal / Wacker / G.E. / STP Ltd. / BASF India Ltd. / Maruti Bitumen Pvt. Ltd. / Chryso India Pvt. Ltd. / Supreme Bituchem India Pvt. Ltd. / Bostik India Pvt Ltd / MYK

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S. No.	Item Name	Brands / makes / Manufacturers	
		Arment Pvt. Ltd. / McCoy Soudal Sealants Adhesives & Foams Pvt. Ltd.	
39.	MODULAR S.S. /GLASS RAILING	Dormakaba India Pvt. Ltd. / Jindal Lifestyle Ltd. / GEZE GmbH / Q-Railing India Pvt. Ltd. (Formerly D-Line) / Linx Technologies Pvt. Ltd. / Kich Architectural Products Pvt. Ltd. / Ozone India Pvt. Ltd. / Assa Abloy / Rinox Kaufmann Ltd. / Maruti Architectural Products Pvt Ltd	
40.	SOLID ACRYLIC SURFACE BOARDS	Dupont / LG-Himacs (LX Hausys India Pvt. Ltd) / Hanex / GMGR India (Samsung Staron) / Neonnex / Durlax Top Surface Limited	
41.	TENSILE FABRIC	Mehler Texnologies (Low & Bonar India Pvt. Ltd.) /Serge Ferrari India Pvt. Ltd. / Sattler PRO-TEX.	
42.	AUTOCLAVED AERATED CEMENT (AAC) BLOCKS	Magicrete Building Solutions Pvt. Ltd. / Finecrete Eco-Blocks Pvt. Ltd. / Aerocon / Bilt Technologies / JK / Instablock / Max Blocks / RS Green Infra (India) Pvt. Ltd. / Siporex / Kataria Ecotech. Pvt. Ltd. / Krrish White Bricks LLP / Jindal AIR / NCL Buildtek Pvt. Ltd. / Renaatus Procon Private Limited	Remark: Apart from these makes, locally available makes may be explored meeting technical specifications.
43.	AUTOMATIC REVOLVING / SWING DOOR	Dormakaba India Pvt. Ltd. / Hafele India Pvt. Ltd. / GEZE GmbH / Gilgen Door System AG / Linx Technology Pvt. Ltd. / Assa Abloy / Autoingers	
44.	WALKWAYS/FALL PROTECTION SYSTEM / ROOF HATCH	WULMET / Latchways / Capital Safety / Honeywell / Checkmate / Karam Safety Pvt. Ltd. / Kingspan Jindal Pvt. Ltd./ NYSTROM / BABENKO / BILCO	
45.	GYPSON PLASTER/ POLYMER MODIFIED SELF CURING MORTAR	Ferrous Crete(India) Pvt. Ltd. / Ultra Tech / Saint Gobain Gyproc India Ltd. / Dow Construction Chemicals / BASF India Ltd. / Asian Paints Ltd. / Saint-Gobain India Pvt. Ltd. / Dudhi Industries Private Limited	
46.	CURING COMPOUND (RESIN BASED & WAX BASED)	FOSROC Chemicals (India) Pvt. Ltd. / Sika India Pvt. Ltd. / BASF India Ltd. / Supreme Bituchem India Pvt. Ltd. / CICO Technologies Ltd. / STP Ltd. / Berger Paints India Ltd. / Yahska Polymers Pvt Ltd / Akarsh Specialities	
47.	DECORATIVE FILMS/ SAFETY FILMS	3M / Avery Dennison / Deck	
48.	STEEL NANO COAT	Four Solutions Pvt. Ltd. / Meta-Chem Paints & Adhesives Pvt. Ltd. / Advanced Lab	
49.	GEOTEXTILE PRODUCTS / SOIL	TechFab India Industries Ltd. / Strata Geosystems (India) Pvt. Ltd. / Suntech Geotextile Pvt. Ltd. / Maccaferri Environmental Solutions	

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S. No.	Item Name	Brands / makes / Manufacturers
	REINFORCEMENT GEOSYNTHETICS	
50.	UPVC/CPVC/SWR PVC PIPES & FITTINGS	The Supreme Industries Ltd. / Finolex Industries Ltd / Savoir Faire Manufacturing Co. Pvt. Ltd. / AKG Extrusions Pvt Ltd. / Surya Roshni / Astral / Prince / Ori-plast / Ashirvad / Vectus / Prayag(Prayag Polymers Pvt. Ltd.) / Balco / Texmo Pipes and Products Ltd. / HIL Limited / Vishal Pipes Limited
51.	ROCKWOOL / GLASSWOOL INSULATION	UP Twiga / Roxul-Rockwool / Rocklloyd / Saint Gobain India Pvt Ltd. (Formerly Rockwool India) / Lloyd Insulations India Ltd. / Polybond Insulation Pvt. Ltd. / Hi-Tec Rock Fibre Private Limited / Thermocare Rock Wool (India) Pvt. Ltd.
52.	G.I. PIPE	Tata Steel Ltd. / Jindal Pipes Ltd. / Surya Roshni (Surya Roshni Ltd.) / APL Apollo Tubes Ltd. / Zenith / Utkarsh India Ltd. / Nezone Tubes Ltd. / Hi-Tech Pipes Ltd. / Jotindra Steel & Tubes Ltd. / Ravindra Tubes Private Limited / Dadu Pipes Pvt. Ltd / Vishal Pipes Limited / Chetna Steel Tubes Private Limited
53.	SLUICE VALVE/PRESSURE REDUCING VALVE/ NON-RETURN VALVE (CI/GUN METAL)	Sant Valves Pvt. Ltd. / Zoloto / Audco(L& T) / Castle / Leader Valves Ltd. / Kartar / Honeywell / IVC
54.	HDPE PIPES	Geberit / Saint Gobain / Savior Faire Manufacturing Co. Ltd. / Jain Irrigation / Ori-plast / East - Hooghly Agro Plantation Pvt. Ltd. / Aaram Plastics Private Limited / Shree Narayani Pipe Mfg Co / Vishal Pipes Limited / Prince Pipes And Fittings Limited / Vishal Heavy Engineering Private Limited / Sangir Plastics Pvt. Ltd.

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DGM (E-C)

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RE
on 15/05/20

[Signature]

Distribution List

1. EA to Chairman, AAI, CHQ
2. Member (Finance), AAI, CHQ
3. Member (Ops.), AAI, CHQ
4. Member (Plg.), AAI, CHQ
5. Member (HR), AAI, CHQ
6. Member (ANS), AAI, CHQ
7. Chief Vigilance Officer, AAI, CHQ
- 8-12. Executive Director (Engg), AAI, Northern Region/ Western Region/ Eastern & North Eastern Region/Southern Region/ MIS & Standardization, CHQ
13. Executive Director (Land Management/ BD), AAI, CHQ
14. Executive Director (PMQA) AAI, CHQ,
- 15-19. Regional Executive Director, AAI, Northern Region/Western Region/ Eastern Region/ Southern Region/ North Eastern Region
- 20-21. Executive Director (CNS-Plg.)-I/II, AAI, CHQ
22. Executive Director (CNS-OM), AAI, CHQ
23. Executive Director (FIU & RCDU), AAI, CHQ
- 24-27. Executive Director (ATM)/ ATM-ASM/ ATM-AFTM/ ATM-CAP, AAI, CHQ
28. Executive Director (Plg.) AAI, CHQ
29. Executive Director (Ops.) AAI, CHQ
30. Executive Director (JVC)AAI, CHQ
31. Executive Director (Avn. Safety), AAI, CHQ
32. Executive Director(Arch.), AAI, CHQ
33. Executive Director(Admin), AAI, CHQ
- 34-35. Executive Director(Finance)- I/II, AAI CHQ
36. Executive Director(Commercial), AAI CHQ
37. Executive Director(IT), AAI, CHQ
38. Director(Security), AAI, CHQ
39. Executive Director(Tech.), AAI, CHQ
40. Executive Director(SIU), AAI, CHQ
41. Executive Director(RCS), AAI, CHQ
42. Principal (C.A.T.C), Allahabad
43. Director (I.A.A), AAI, Rangpuri
- 44-46. Airport Director, AAI, Kolkata/Chennai/Trivandrum Airports
47. GM (Vigilance) AAI, CHQ
48. GM (Law) AAI, CHQ
49. GM (C&C) AAI, CHQ
50. GM (BDC), AAI, CHQ
- 51-52. GM Engg (project) AAI, Kolkata Project/ Chennai Project
- 53-60. GM Engg (Civil/Electrical), AAI, Northern Region/Western Region/ Southern Region/ Eastern &North Eastern Region, CHQ
- 61-72. GM Engg (Project)/project in-charge, AAI, Port Blair/ Patna/ Hollongi/ Leh/ Dehradun/ Vijayawada/ Trichy/ Rajahmundry/ Guwahati/Rajkot/ Pune/ Jabalpur Airport.
- 73-76. GM: PMQA / Planning / RCS / Airport System, CHQ
- 77-81. GM Engg, AAI, Northern Region/Western Region/ Eastern Region/ Southern Region/ North Eastern, RHQ.
82. GM (IT), Safdarjung Airport
- 83-92. MIS (Civil) & MIS (Electrical)-NR/SR/WR/ER/NER, AAI, CHQ

**TENDER ACCEPTANCE LETTER
(To be given on Contractor's Letter Head)**

To,
SM Engg. (Civil.),
Airports Authority of India,
Pakyong Airport, Pakyong,
SIKKIM-737106

Date:

**Sub: Acceptance of Terms & Conditions of Tender
(Tender ID No:.....)**

Name of work:- “ Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.”

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned ‘Tender/Work’ from CPP Portal web site(s) namely: <https://etenders.gov.in/eprocure/app> as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have inspected the site and read the entire terms and conditions of the tender documents, corrigendum(s) and reply to query if any made available to me/ us which shall form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. I / We hereby unconditionally accept the tender conditions of AAI's tender documents in its totality / entirety for above mentioned work.
4. I/We declare that I/We have not paid and will not pay any bribe to any officer of AAI for awarding this contract at any stage during its execution or at the time of payment of bills, and further if any officer of AAI asks for bribe/gratification, I will immediately report it to the Appropriate Authority in AAI'.
5. I/ We hereby submitted that I/ We paid/ submitted the required earnest money as per NIT conditions.
6. I / We certify that all information/ documents furnished by our Firm is true & correct and in the event at any stage, the information/ documents is found to be incorrect/ untrue or found violated, then we shall be liable for debarment from tendering in AAI without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely

Yours Faithfully

(Signature of the Bidder, with Official Seal)

UNDERTAKING REGARDING DEBARMENT/BLACKLISTING/RESTRAINMENT

Name of Work“ Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.”

(Tender ID No: _____ **)**

I/We (name and post of authorized signatory) on behalf of (Name of firm) do here by solemnly affirm and declare as follows:

- (i) Our firm is not restrained/ debarred/ blacklisted by Airports Authority of India (AAI)/ Ministry of Civil Aviation (MoCA)/ Dept. of Expenditure(DoE), Ministry of Finance and the debarment/ blacklisting/ restraintment is not in force as on last date of opening of tender (Envelope-I, normally called as technical bid).
- (ii) None of Proprietor /Partners /Board Members /Directors of M/s..... (Name of firm) has remained Proprietor /Partner /Board Member /Director in any firm which stands debarred /blacklisted/restrained by AAI/ MoCA/ DoE and the debarment/ blacklisting/ restraintment is not in force as on last date of opening of tender (Envelope-I, normally called as technical bid)
- (iii) Our firm understands that if our firm either debarred before the date of opening of tender (first bid, normally called as technical bid, in case of two packet/two stage bidding) or debarred before the date of contract by AAI/ MoCA/ DoE (Debarment applicable for all Ministries/ Departments), our bid is liable to be rejected at that stage.
- (iv) Our firm understands that at any stage, if above statements are found to be false, our firm shall be liable for debarment from bidding in AAI, apart from any other appropriate contractual legal action including debarment/ blacklisting/ restraintment, termination of the contract etc. as deemed fit

Date:

Place

**(Signature and name of the
authorized signatory of firm)**

Note: Above undertaking is to be given on company's letter head.

AFFIDAVIT

(To be executed in Rs. 100/- Non Judicial Stamp Paper duly Notarized after award of the work)

I/ We on behalf of M/s do here by solemnly affirm and state as follows:-

I am competent to swear this affidavit on behalf of M/s and hereby confirm that I am fully complying with the legal obligations with regard to payment of minimum wages as per the minimum wages Act- 1948 and deduction of provident Fund Authorities as per EPF & MP Act- 1952 and Contract Labour (Regulation & Abolition) Act-1970.

Date:-

Place:-

(Signature of the Contractor)
With rubber-stamp

(Notary)

Form A

**DETAILS OF SIMILAR WORKS SUCCESSFULLY COMPLETED OR
SUBSTANTIALLY COMPLETED DURING THE LAST SEVEN YEARS ENDING
ON ...**

S. No.	Details of work	W-1	W-2	W-3
i	Name of work/ Project and Location			
ii	Name and Address of client			
iii	Awarded Cost of work (in Rs. Lakhs)			
iv	Date of commencement as per contract			
v	Stipulated date of completion			
vi	Actual date of completion			
vii	Completion Cost/ Actual work done			
viii	Whether the work was done on back to back basis Yes/No			

SIGNATURE (S) OF BIDDER (S)
(WITH STAMP)

Note: The contractor should give list of only of eligible category works of Requisite amount with supporting documents issued from client.

FORM-B
FINANCIAL INFORMATION

Name of the firm/ contractor.....

1. Financial Analysis - Details to be furnished turnover on construction works with profit / loss as per figure in balance sheet account for the last three years duly certified by the Chartered Accountant as submitted by the applicant to the Income - Tax Department

S. No.	Particulars	Financial Year (Last three years)		
		FY.....	FY.....	FY.....
1.	Turn-Over on Construction works			
2.	Profit/ (Loss) after Taxes (standalone)			

2. Financial arrangements for carrying out the proposed work.

Unique Document Identification Number (UDIN).....

SIGNATURE OF CHARTED
ACCOUNTANT WITH SEAL

SIGNATURE (S) OF BIDDER (S)

Note:- The bidder should give information strictly in above format.

Form 'C'
FORM FOR CERTIFICATE OF NET WORTH FROM CHARTED ACCOUNTANT

This is to certify that as per audited balance sheet and profit & loss account during the financial year....., the Net Worth of M/S..... (Name & registered address of Individual/Firm/Company), as on.....(the date of certificate) is Rs after considering all liabilities. It is further certified that Net Worth of the company has not eroded by more than 30 % in last three years ending on 31st March 2025.

Unique Document Identification Number (UDIN).....

Signature of Chartered Accountant

.....

Name of Chartered Accountant

.....

Membership of ICAI

Date and Seal

SIGNATURE (S) OF BIDDER (S)

*****The relevant year shall be the financial year ending 31st March preceding the calendar year of bid submission or 31st March of the financial year preceding the previous financial year, if the balance sheet of the previous financial year has not been audited.

Format Consent Letter
Dispute Resolution Clause- 25 of GCC

To,

The Chairman/Member/Regional Executive Director,
Airports Authority of India,

SUB: Request for appointment of arbitrator under Clause of
the.....agreement..... dated for.....

Sir/Madam,

1. We state that.....(contractor/agency) was awarded work/
concession of at
airport/.....(other location) of Airports Authority of India through
Award Letter dated.....
2. Dispute related to arose between us (contractor/ agency)
and AAI.
3. On(date), dispute was referred of Mediation as per AAI Mediation
Policy and any settlement on the following claims/ disputes was not reached
between the parties:
 - (i)
 - (ii)
 - (iii)
4. A concise statement along with claim in respect of each of such disputes is
attached herewith.
5. In view of the above, we invoke arbitration under clause..... Of
the agreement between us and AAI and as per
proviso to Section-12(5) of the Arbitration & Conciliation Act, 1996, we
hereby agree and request the Chairman/Member/Regional Executive
Director AAI to appoint arbitrator from AAI 's panel of arbitrators.
6. I/ We also give my/ our consent for appointing any of an arbitrator from
AAI's approved panel of arbitrators, as per paragraph-5 above.

Thanking you,

(.....)
Authorized signatory of

Encl: As above

Undertaking for Deployment of Plant and Machinery

I/ We will deploy sufficient plant and machinery as per the requirement of work in consultation with the Engineer-in-Charge (E-I-C) to achieve the milestones/targets and overall completion within the time period.

(Signature of the Bidder, with Official Seal)

(To be given on Contractor's Letter Head)

Performa for declaration by Bidder for compliance of order on Restriction
under Rule 144(xi) of the General Financial Rules (GFRs)-2017
(Scanned copy to be submitted by Bidder in Cover-I on letter head of
Company/Firm)

Name of Work: _____

Tender ID: _____

I, the undersigned, _____ (full names), do hereby
declare, in my capacity as _____ of M/s _____
(Name of company/Firm) _____ that:

1) I am competent to swear this undertaking on behalf of M/s _____
(Name of company/Firm)

2) I have read the Order(s) on the subject of Restrictions under Rule 144 (xi) of
the General Financial Rules (GFRs), 2017 regarding restrictions on procurement
from a bidder of a country which shares a land border with India and comply to
all the provisions of the Order(s).

3) I certify that M/s _____ (Name of company/Firm) _____) **is not from such a
country / is from such a country, has been registered with the Competent
Authority** (strike out whichever is not applicable). I hereby certify that this
BIDDER fulfills all requirements in this regard and is eligible to be considered
[Where applicable, evidence of valid registration with the Competent
Authority is attached].

4) I understand that the submission of incorrect data and / or if certificate/
declaration given by M/s _____ (Name of company/Firm) _____ is found to be
false, this would be a ground for immediate termination and further legal action
in accordance with law as per Clause 12 of the Public Procurement Order on
Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017.

Signature and name of the authorized signatory of the firm
With Rubber Stamp

Date:

Place:

Work Diary

PART – A

1. Name of Work.....
2. Contract Agreement No
3. Date of Acceptance
4. Name and Registered address of Contractor.....
5. Contract Sum and /or percentage on Schedule of Rate.....
6. Period of Contract.....
7. Name and local address of Contractor/ Contractor's Agent
8. Date of First Works order.....
9. Date of handing over the site to contractor
10. Date of Commencement of work
11. Stipulated date of completion of Contract.....
12. Suspension orders showing duration and authority.....
13. Extended date of completion with authority
14. Date of actual completion of work
15. Date of work taken over.....
16. Date of expiry of Maintenance Period

Work Diary

PART – B

DAILY RECORD

1. Weather
2. Workers engaged by Contractor

Skilled						Unskilled	
Category	No	Category	No	Category	No	Category	No
Concreter		Paviour		Glazier		Mate	
Bricklayer		Tiller		Plumber		Bhisty	
Mason		Painter				Mazdoor (man)	
Carpenter		Polisher				Mazdoor (women)	
Joiner						Mazdoor (boy)	

3. Important materials brought on site with approximate quantities (rejection, if any, to be stated).

Schedule 'B' materials		Contractor's materials		Rejections	
Materials	Quantity	Materials	Quantity	Materials	Quantity

4. Details of plant, equipment and transport and transport working on site.

	T & P Hired under Schedule 'C'		Contractor's T&P equipment & transport	
T & P	Quantity	Remarks regarding breakdown maintenance etc	Quantity	Remarks regarding breakdown maintenance etc
Road Roller Concrete. Mixer Tar Roller Transport				

5. Brief particulars of work in progress

6. Important stages completed and passed

7. Remarks of Visiting Officer

Dated signature of Engineer-in-charge

Date of signature of contractor or representative or
his authorized agent

Schedule of Quantities (Schedule-A)

Name of the work: Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.

Sl. No.	Description of Item	Unit	Qty.
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. 15.2.1 Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	Cum	25.00
2	Providing and laying Pavement Quality Concrete (PQC) produced in a batching and mixing plant having a Characteristic flexural strength i.e. flexural strength of 4.1 MPa at 28 days using Ordinary Portland cement of 43/53 grade or Portland Pozzolana Cement or Portland Slag cement conforming as per relevant IS codes, to be mixed at site, with 0.5% Super plasticizer by mass of cementitious material, fine aggregate, graded stone aggregates of 40 mm nominal size in appropriate proportion as per specification and job mix formula, laid in panels as per drawings/design as approved by the Engineer-In-Charge using Slip Form Paver or Fixed form paver or Manual Method including anti friction layer, joint filler board, making necessary provision for expansion, dummy and construction joint including filling with Polysulphide sealant of approved make, curing and making profile, complete as per direction of Engineer-in-Charge and specifications. The item for execution shall include all operations making pavement for intended use but not limited to following:(i) Polyethylene sheet (White in color) of thickness 400 micron conforming to IS: 2508 with 6mm thick fine sand layer.(ii) Providing and laying in position for expansion joint, 25mm thick pre-cut Synthetic joint filler board of approved make conforming to IS:1838(part 3)-2011, 45 mm from top (to be removed at the time of filling of Polysulphide sealant).(iii) Mechanically cutting dummy joints 3mm wide x 1/3rd thickness of slab which is subsequently widened to 10mm for the top 25mm depth and construction joints 10mm wide x 25mm deep as per specification. (iv) Providing and laying in position Polysulphide sealant of approved make conforming to BS-5212-1990 or IS: 11433-1995 in expansion/ construction / dummy joints including rounding off edges, applying 2 coats of approved primer compatible with the brand of Polysulphide and preparing the surface and applying masking tape along the edge of joint to prevent accidental spillage of sealant on top surface and to give neat finish to the sealant and removing the masking tape after application of sealant etc. as per the details below: (a) Expansion Joints of size 25 mm wide and 10 mm deep over 30mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications. (b) Construction Joints of size 10 mm wide and 10 mm deep over 12mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications. (c) Dummy Joints of size 10 mm wide and 10 mm deep over 12 mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications. (v) Making profile as per DGCA CAR, panel drawing showing dummy, construction, expansion joints location.	Cum	25.00

Sl. No.	Description of Item	Unit	Qty.
	Note: (i) Areas inaccessible to paving equipment shall be constructed by manual/hand guided method. Areas in which manual/hand guided methods of construction become indispensable shall be got approved by the Engineer-in-Charge in writing in advance. (ii) The quantity of cement, type of cement and super plasticizer for one Cum. of finished concrete specified are for tendering purpose only. The contractor shall quote his rates assuming quantity of OPC cement as 360 Kg/Cum or 400 Kg of Portland Pozzolana Cement/ Portland Slag cement. In addition, if the actual quantity of cement & super plasticizer required as per laboratory mix design varies from the quantity assumed above, necessary cost adjustment for deviation in the quantity of cement and super plasticizer as per mix design, if any, shall be done as per the rate of cement and super plasticizer in actual supply voucher from manufacturer/authorized dealer at the time of execution. In the case of authorized distributor, the rate may be authenticated by the manufacturer. The rate of cement and super plasticizer exclusive of GST shall only be considered for payment.		
3	Raking out the existing sealing compound from the joints and cleaning the joints by removing dirt, debris, rubbish, etc., using suitable tools and machinery, in preparation for laying polysulphide sealant, complete as directed by the Engineer-in-Charge (EIC).	RM	22923.75
4	Providing and laying in position polysulphide sealant of approved make conforming to BS-5212-1990 or IS 11433-1995, in expansion / Construction / dummy joints including rounding off edges, applying 2 coats of approved primer compatible with the brand of polysulphide and preparing the surface and applying masking tape along the edge of joints to prevent accidental spillage of sealant on top surface and to give neat finish to the sealant and removing the masking tape after application of sealant etc. complete as per direction of Engineer-in-Charge & particular specifications. [Note : for purpose of payment, quantity (Length X Width X Depth) of sealant in cu cm only will be measured.]	Cu Cm	2651475.00
5	Sure Bond Self Adhesive, Cold applied polymer modified high tack bituminous instant Runway/ Tarmac crack sealing Tape of 100mm width, 2KPa thick having quick release film on one side Runway/ Pavement/ Tarmac crack to form high strength water proof layer, Make Srijan System Pvt Ltd or equivalent approved brand.	RM	130.00
6	Supply of Run patch, self adhesive, cold applied made of polymer modified High Tak Bituminous spread sheet of 1mx10m roll having bond strength of 0.4 Mpa, nominal thickness 3.5-4.0mm for sealing of potholes/cracks on Runway, Taxiway for both asphalt and concrete surfaces. Note: Qty 1 number refers to 1 Roll of 1mx10m	RM	80.00

Item Rate BoQ

Tender Inviting Authority: Airports Authority of India

Name of Work: Provision of Joint Filling with Polysulphide sealant, Surebond and run patch etc. in PQC Panel of Runway/Apron/Taxiway at Pakyong Airport.

Contract No:

Name of the Bidder/ Bidding Firm / Company :						
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. 15.2.1 Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	25.00	Cum	0.00	0.00	INR Zero Only
2	Providing and laying Pavement Quality Concrete (PQC) produced in a batching and mixing plant having a Characteristic flexural strength i.e. flexural strength of 4.1 MPa at 28 days using Ordinary Portland cement of 43/53 grade or Portland Pozzolana Cement or Portland Slag cement conforming as per relevant IS codes, to be mixed at site, with 0.5% Super plasticizer by mass of cementitious material, fine aggregate, graded stone aggregates of 40 mm nominal size in appropriate proportion as per specification and job mix formula, laid in panels as per drawings/design as approved by the Engineer-In-Charge using Slip Form Paver or Fixed form paver or Manual Method including anti friction layer, joint filler board, making necessary provision for expansion, dummy and construction joint including filling with Polysulphide sealant of approved make, curing and making profile, complete as per direction of Engineer-in-Charge and specifications. The item for execution shall include all operations making pavement for intended use but not limited to following:(i) Polyethylene sheet (White in color) of thickness 400 micron conforming to IS: 2508 with 6mm thick fine sand layer.(ii) Providing and laying in position for expansion joint, 25mm thick pre-cut Synthetic joint filler board of approved make conforming to IS:1838(part 3)-2011, 45 mm from top (to be removed at the time of filling of Polysulphide sealant).(iii) Mechanically cutting dummy joints 3mm wide x 1/3rd thickness of slab which is subsequently widened to 10mm for the top 25mm depth and construction joints 10mm wide x 25mm deep as per specification.					

	(iv) Providing and laying in position Polysulphide sealant of approved make conforming to BS-5212-1990 or IS: 11433-1995 in expansion/ construction / dummy joints including rounding off edges, applying 2 coats of approved primer compatible with the brand of Polysulphide and preparing the surface and applying masking tape along the edge of joint to prevent accidental spillage of sealant on top surface and to give neat finish to the sealant and removing the masking tape after application of sealant etc. as per the details below: (a) Expansion Joints of size 25 mm wide and 10 mm deep over 30mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications. (b) Construction Joints of size 10 mm wide and 10 mm deep over 12mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications. (c) Dummy Joints of size 10 mm wide and 10 mm deep over 12 mm dia expanded closed-cell Polyethylene foam back-up/backer rod of minimum density 22 Kg/Cum, as per manufacturer's specifications. (v) Making profile as per DGCA CAR, panel drawing showing dummy, construction, expansion joints location.	25.00	Cum	0.00	0.00	INR Zero Only
	Note: (i) Areas inaccessible to paving equipment shall be constructed by manual/hand guided method. Areas in which manual/hand guided methods of construction become indispensable shall be got approved by the Engineer-in-Charge in writing in advance. (ii) The quantity of cement, type of cement and super plasticizer for one Cum. of finished concrete specified are for tendering purpose only. The contractor shall quote his rates assuming quantity of OPC cement as 360 Kg/Cum or 400 Kg of Portland Pozzolana Cement/ Portland Slag cement. In addition, if the actual quantity of cement & super plasticizer required as per laboratory mix design varies from the quantity assumed above, necessary cost adjustment for deviation in the quantity of cement and super plasticizer as per mix design, if any, shall be done as per the rate of cement and super plasticizer in actual supply voucher from manufacturer/authorized dealer at the time of execution. In the case of authorized distributor, the rate may be authenticated by the manufacturer. The rate of cement and super plasticizer exclusive of GST shall only be considered for payment.					
3	Raking out the existing sealing compound from the joints and cleaning the joints by removing dirt, debris, rubbish, etc., using suitable tools and machinery, in preparation for laying polysulphide sealant, complete as directed by the Engineer-in-Charge (EIC).	22923.75	RM	0.00	0.00	INR Zero Only
4	Providing and laying in position polysulphide sealant of approved make conforming to BS-5212-1990 or IS 11433-1995, in expansion / Construction / dummy joints including rounding off edges, applying 2 coats of approved primer compatible with the brand of polysulphide and preparing the surface and applying masking tape along the edge of joints to prevent accidental spillage of sealant on top surface and to give neat finish to the sealant and removing the masking tape after application of sealant etc. complete as per direction of Engineer-in-Charge & particular specifications. [Note : for purpose of payment, quantity (Length X Width X Depth) of sealant in cum only will be measured.]	2651475.00	CUM	0.00	0.00	INR Zero Only
5	Sure Bond Self Adhesive, Cold applied polymer modified high tack bituminous instant Runway/ Tarmac crack sealing Tape of 100mm width , 2KPa thick having quick release film on one side Runway/ Pavement/ Tarmac crack to form high strength water proof layer, Make Srijan System Pvt Ltd or equivalent approved brand.	130.00	RM	0.00	0.00	INR Zero Only
6	Supply of Run patch , self adhesive, cold applied made of polymer modified High Tak Bituminous spread sheet pf 1mx10m roll having bond strength of 0.4 Mpa, nominal thickness 3.5-4.0mm for sealing of potholes/cracks on Runway, Taxiway for both asphalt and concrete surfaces. Note: Qty 1 number refers to 1 Roll of 1mx10m	80.00	RM	0.00	0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				