



गेल (इंडिया) लिमिटेड

(भारत सरकार का उपक्रम – महारत्न कंपनी)

GAIL (India) Limited

(A Government of India Undertaking— A Maharatna Company)

"स्वान", दूसरी मंज़िल,
#323, कोडिगेहल्ली मेन रोड,
सहकार नगर,
बेंगलुरु – 560092
"Swan", 2nd Floor,
#323, Kodigehalli Main Road,
Sahakarnagar,
Bengaluru – 560092
फ़ोन/Phone : 080-46244111
फैक्स/Fax : 011-26185941

LETTER OF ACCEPTANCE

To KVR CONSTRUCTION HEIGHTS PVT LTD NO.91,GROUND FLOOR 3RD CROSS ROAD,OPPOSITE VASAVI KANNIKA PARAMESHWARI TEMPLE BENGALURU BENGALURU-560021 Karnataka ,India	LOA No. : GAIL/BLR25/69/5300047413/134411/CIVIL Dated : 08.04.2026 RFQ No. & Date : 3300105941 Dt. 08.04.2026 Your offer/Qtn.No.: NIL Qtn. Dt. : 12.02.2026 E Tender No.: NIL Vendor Type : OTHERS (Non-MSE) Vendor GSTN No : 29AAJCK7531Q1ZO
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Kind Attn : Sh.K Venkataram Reddy

Name of Work : CONSTRUCTION OF OFFICE BUILDING AND MISC FACILITIES AT CHITRADURGA

Dear Sir/Madam

With reference to your Offer against our RFQ and all subsequent correspondences (if any) till date and in continuation of our Fax/Letter of Intent (if any) we are pleased to award the subject works highlighting the following salient features:

Scope of Work : Scope of work under this contract shall be as detailed in enclosed document.

Contract Value : The estimated contract value including all taxes and duties under this contract works out to

Price Basis:

ITEM	1	CONSTRUCTION OF OFFICE INR	27,183,678.01
		BUILDING AND MISC	

We have issued this detailed Letter of Acceptance (LOA) for subject services at total estimated contract value of Rs.2,71,83,678.01 (inclusive of IGST).

"The Order/ contract value mentioned above is subject to Price Reduction Schedule clause".

Abnormally High Rated Items :

NIL

Duration of Contract/Completion Schedule :

THE "DURATION/PERIOD OF CONTRACT" FOR EXECUTION OF ALL JOBS/WORKS LISTED UNDER 'SPECIFICATIONS & SCOPE OF WORK' AND 'SCHEDULE OF RATES' OF TENDER DOCUMENT, SHALL BE "11 (ELEVEN) MONTHS" TO BE RECKONED FROM THE 60TH DAY OF DATE OF

पंजीकृत कार्यालय:
गेल भवन 16, भीकाएजी कामा प्लेस
नई दिल्ली, 110066-इंडिया

REGD. OFFICE:
GAIL BHAWAN, 16, BHIKAJI CAMA PLACE
NEW DELHI-110 066. INDIA

सीआईएन/CIN
L40200DL1984GOI018976
www.gailonline.com

NOTIFICATION OF AWARD OF WORK (FOA/ LOA) BY GAIL OR DATE OF BUILDING PERMISSION/ PLAN SANCTION BY KIADB/ OTHER AUTHORITIES FOR BUILDING CONSTRUCTION WORKS, WHICHEVER IS EARLIER.

Performance Bank Guarantee:

Contractor has to submit CPBG / Security Deposit of Rs.19,52,300.00 (@10% of Basic order Value) OR ISD @ Rs.9,76,150.00 (@5% of Basic Order / Contract value within 30 days of FOA/notification of award and deduction @ 10% of the RA bill subsequently from RA bills till the total amount of security deposit (including ISD and deducted amount) reaches 10% of basic Order / Contract value towards faithful performance of the contractual obligations and valid for 25 months.

The contractor shall furnish to the EMPLOYER within 30 days from the date of notification of award, a Security deposit for accepted value of the tender or the actual value of work to be done which is applicable due to any additional work or any other reasons, in the form of Bank draft / Bankers' cheque or Bank guarantee or irrevocable letter of credit as contract performance security with the EMPLOYEER which will be refunded after the expiry of DEFECTS LIABILITY PERIOD.

In case, GAIL allows additional time for submission of CPBG/SD beyond 30 days, a penal interest of Marginal Cost of Fund based Lending Rate (MCLR) for one year charged by SBI (applicable on due date of submission of CPBG/SD i.e. 30th day after issuance of FOA/Notification of award) plus 4.0% p.a (on CPBG/SD amount) shall be charged for delay beyond 30 days i.e. from 31st days after issuance of FOA/LOA.

CPBG/SD SHOULD BE VALID FOR 25 MONTHS I.E. UPTO 07.05.2028 WITH CLAIM PERIOD FOR MINIMUM PERIOD OF 03 MONTHS (i.e UPTO 06.09.2028) BEYOND EXPIRY DATE.

Contract Agreement:

Contractor is required to execute a contract agreement with GAIL (India) Limited, Bengaluru on non-judicial stamp paper of Karnataka State for appropriate value within fifteen (15) days from the date of issuance of LOA in exact format available in the tender document. All charges including cost of stamp paper associated with this agreement shall be borne by contractor.

Payment Terms:

(A) SUBMISSION OF BILLS:

GAIL has implemented "Anjani" e-Measurement Book & e-Billing Portal for ease in submission of measurement book/bill and reduction in paper transaction.

Accordingly, GAIL will process the Bill with Measurement Book through "Anjani" e-Measurement Book & e-Billing Portal (link: <https://gailebank.gail.co.in/MBAutomation/frmllogin.aspx>).

Accordingly, Contractor/Service Provider/ Consultant is requested to forward the RA Bill/Final Bill on "Anjani" e- Measurement Book & e-Billing Portal through concerned EIC/CIC/SIC, whichever is applicable. Further, User Manual is also available on aforesaid portal.

(B) PAYMENT OF RUNNING ACCOUNT BILLS:

(i) RA Bill shall be submitted through "Anjani Portal" of GAIL after joint measurements with EIC/GAIL#s authorized representative. Also, soft copy of measurements shall be submitted by the contractor.

(ii) Payment will be made on the basis of# joint measurements# taken by the contractor and #EIC/GAIL#s authorized representative(s)", and after necessary verification & certification by "EIC".

(iii) Necessary recoveries and all statutory deductions (viz TDS, WCT, etc.) shall be made from the payment to the contractor at the relevant rates [as per the norms, rules and regulations laid down by the Government]

(iv) 95% amount of bill shall be paid against each RA bill. Balance 5% payment shall be released in the final bill.

(v) Payment shall be released by VIM PROCESSING DESK OF GAIL.

Vendor Code: 108045434
KVR CONSTRUCTION
HEIGHTS PVT LTD

LOA No. : GAIL/BLR25/69/5300047413/134411/CIVIL
LOA Date : 08.04.2026

(C) PAYMENT OF FINAL BILL:

(i) Contractor must submit his final bill through "Anjani Portal" of GAIL after joint measurements with EIC/GAIL#s authorized representative. Also, soft copy of measurements shall be submitted by the contractor.

(ii) Contractor must submit his final bill within Thirty days of completion of the work. In case the contractor fails to submit the Final Bill within the stipulated date, GAIL/EIC has the freedom and authority to close the contract based on their own evaluation of the Final amounts payable and such exercise is to be completed within 3 months from the date of completion of work.

(iii) Payment shall be released by VIM PROCESSING DESK OF GAIL.

(iv) Documents to be submitted with Final bill: Final bill should be accompanied by the followings:

- a.) Final measurement duly certified by the EIC.
- b.) No claim certificate as per standard format.
- c.) No dues certificate as per standard format
- d.) Indemnity Bond as per standard format.
- e.) Site Clearance Certificate.
- f.) As Built Drawings
- g.) Occupancy/Building completion certificate issued by KIADB / other authorities along with NOC#s (as per requirement)

(D) VENDOR INVOICE MANAGEMENT (VIM) SYSTEM:

GAIL HAS IMPLEMENTED VENDOR INVOICE MANAGEMENT (VIM) SYSTEM FOR PROCESSING OF INVOICES W.E.F. 01.04.2023. ACCORDINGLY, GAIL WILL PROCESS THE PAYMENT THROUGH "VIM" CENTRE / PORTAL. FURTHER, FOLLOWING IS TO BE ENSURED BY VENDOR:

A. LETTER OF ACCEPTANCE (LOA) NO./ PURCHASE ORDER(PO)NO. IS TO BE MENTION ON THE FACE OF INVOICE.

B. VENDOR TO SUBMIT DIGITALLY SIGNED & PDF INVOICES. INVOICES SHOULD BE SYSTEM GENERATED AND NO HANDWRITTEN INVOICES SHALL BE ELIGIBLE FOR OCR CONVERSION.

VIM (SPARSH) PORTEL LINK: <https://sparsh.gail.co.in/flipper/#/login>

If email id mentioned in this PO above (on first page) is active and your primary email id, kindly register yourself on the SPARSH PORTAL, using primary email id.

Else you are requested to submit a letter (on your company letter head), with a request for updating the email id on our system, duly signed & stamped by authorized person.

Paying Authority:

GAIL (INDIA) LIMITED,
SARATHI-GAIL Shared Service Center,A-26, IBM Office, Sector-62, Noida, Utter Pradesh, 201309

INVOICE SHOULD BE ADDRESSED IN THE NAME OF PAYING AUTHORITY ONLY WITH MENTIONED THE GST NO.

PAN Particulars:

GAIL (India) Ltd PAN No. AAACG1209J

"As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory forprocurement of goods / services/works/consultancy services exceeding Rs. 2 Lacs per transaction.

Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the notification, in case supplier/ contractor/ service provider/ consultant do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction. ayment of supplier/ contractor / service provider/ consultant shall be processed

Vendor Code: 108045434
KVR CONSTRUCTION
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LOA No. : GAIL/BLR25/69/5300047413/134411/CIVIL
LOA Date : 08.04.2026

only after fulfilment of above requirement".

GSTN Details :

Please note that our state/plant wise GSTN details as below for invoicing and other purpose.

NG Trans(DBPL)-Bengaluru (3170) 29AAACG1209J1ZS

GAIL has implemented Vendor Invoice Management System for processing of invoices. The solution has been configured to handle both physical invoices as well as digitally signed invoices. This system optimizes the invoice management at GAIL and expedite their processing. The detailed methodology for submission of invoices shall be informed separately.

As a pre-requisite to the system, it is important to mention the details of Purchase Order/ Letter of Acceptance number on the face of invoice. Accordingly you are requested to ensure Purchase Order/ Letter of Acceptance number is clearly mentioned on the Invoice. Further Invoices should be system generated and no handwritten invoices shall be eligible for OCR conversion on VIM portal.

Your Bank Details : Please note that your bank account details against the above vendor code have not been updated in our system. You are requested to forward the bank details in the prescribed format so that same can be updated in our system to ensure timely payment.

Price Reduction Schedule:

APPLICABLE AS PER GENERAL CONDITIONS OF CONTRACT - WORKS

Defect Liability Period:

TWELVE [12] MONTHS

Contract Document:

FOLLOWING DOCUMENTS SHALL CONSTITUTE THE CONTRACT:

- (a) THIS DETAILED "LETTER OF ACCEPTANCE [LOA]"
- (b) TENDER NO. GAIL/BLR-25/69/20134411 (2026_GAIL_263509_1) DATED 20.01.2026
- (c) 'AGREEMENT' EXECUTED ON NON-JUDICIAL STAMP PAPER

FOI Reference/Regularization:

NIL

Engineer-In-Charge:

Manager (Civil), GAIL Bengaluru - SH. Ravindra Khandelwal, E-MAIL- r.khandelwal@gail.co.in, MOBILE-9782591461 SHALL BE THE "ENGINEER-IN-CHARGE [EIC]" FOR THE WORK UNDER THE CONTRACT. YOU ARE REQUESTED TO CONTACT HIM FOR FURTHER INSTRUCTIONS REGARDING EXECUTION OF THE WORK.

Other Contractual Stipulations:

1.0 SCOPE OF WORK: THE DETAILED SCOPE OF WORK SHALL BE AS DEFINED IN "SPECIFICATIONS & SCOPE OF WORK" OF THE ENCLOSED 'RFQ/TENDER DOCUMENT' AND "SCHEDULE OF RATES [SOR] (PART OF THIS "LETTER OF ACCEPTANCE [LOA]"). ANY OTHER ITEM NOT SPECIFICALLY MENTIONED IN "SPECIFICATION & SCOPE OF WORK" AND/OR "SCHEDULE OF RATES [SOR]" BUT REQUIRED TO COMPLETE THE JOB IN TOTALITY SHALL BE IN THE CONTRACTOR'S SCOPE.

2.0 CONTRACT VALUE: THE ESTIMATED 'CONTRACT VALUE' UNDER THIS CONTRACT IS INCLUSIVE GST. THE PRICES SHALL REMAIN FIRM & FIXED FOR THE ENTIRE DURATION OF THE CONTRACT TILL COMPLETION OF ALL WORKS IN ALL RESPECT, AND NO ESCALATION IN RATES / PRICES, FOR WHATSOEVER REASON, SHALL BE PERMISSIBLE. FURTHER, IN CASE OF ANY EXTENSION OF THE DURATION OF THE CONTRACT, CONTRACTOR SHALL NOT HAVE ANY CLAIM FOR REVISION OF THE QUOTED RATES IN THIS REGARD.

3.0 GST: IN CASE, 'GST' IS APPLICABLE FOR THE WORK UNDER THE CONTRACT, CONTRACTOR SHALL CLAIM THE 'GST' INDICATING RATE OF 'ABATEMENT / DEDUCTION' ALLOWED AS PER "GST ACT" IN THE 'FIRST INVOICE' ITSELF. TO ENABLE GAIL TO AVAIL 'CENVAT BENEFIT' ON 'GST', CONTRACTOR SHALL ISSUE AN 'INVOICE', A 'BILL', OR AS THE CASE MAY BE, A 'CHALLAN' WHICH IS SIGNED, SERIALY NUMBERED AND SHALL CONTAIN THE FOLLOWING:

- a) THE NAME, ADDRESS & REGISTRATION NUMBER OF SUCH PERSON/CONTRACTOR.
- b) THE NAME & ADDRESS OF THE PERSON/CONTRACTOR RECEIVING TAXABLE SERVICE.
- c) DESCRIPTION, CLASSIFICATION & VALUE OF TAXABLE SERVICE PROVIDED.
- d) GST AMOUNT

-PAYMENT TO SERVICE PROVIDER FOR CLAIMING 'GST AMOUNT' WILL BE MADE PROVIDED ABOVE FORMALITIES ARE FULFILLED.

-IN CASE OF ANY 'STATUTORY VARIATION' IN 'GST' DURING THE CURRENCY OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT A COPY OF THE 'GOVERNMENT NOTIFICATION' TO EVIDENCE THE RATE AS APPLICABLE ON THE DATE OF SUBMISSION OF BID AND ON THE DATE OF REVISION.

-CLAIM FOR PAYMENT OF 'GST' / 'STATUTORY VARIATION IN GST', SHOULD BE RAISED WITHIN 'TWO [02] MONTHS' FROM THE DATE OF ISSUE OF 'GOVERNMENT NOTIFICATION' FOR PAYMENT OF 'DIFFERENTIAL GST', OTHERWISE CLAIM IN RESPECT OF ABOVE SHALL NOT BEEN ENTERTAINED FOR PAYMENT OF 'ARREARS'.

4.0 ALL OTHER TERMS & CONDITIONS SHALL BE AS PER ENCLOSED "RFQ/TENDER DOCUMENT", WHICH SHALL FORM PART OF THIS "LOA".

ALL OTHER STIPULATIONS MADE BY YOU IN YOUR OFFER / CORRESPONDENCE EXCHANGED SHALL BE TREATED AS NULL & VOID AND DEEMED TO HAVE BEEN UNCONDITIONALLY WITHDRAWN BY YOU IN FAVOR OF PROVISIONS OF THE CONTRACT DOCUMENTS.

General Conditions of Contract:

APPLICABLE AS PER GENERAL CONDITIONS OF CONTRACT-WORKS

Special Conditions of Contract:

APPLICABLE AS PER SPECIAL CONDITIONS OF CONTRACT OF THE TENDER

Post Order Correspondence:

GAIL (INDIA) LIMITED,
SARATHI-GAIL Shared Service Center,A-26, IBM Office, Sector-62, Noida, Uttar Pradesh, 201309

INVOICE SHOULD BE ADDRESSED IN THE NAME OF PAYING AUTHORITY ONLY WITH MENTIONED THE GST NO.

Vendor Code: 108045434
KVR CONSTRUCTION
HEIGHTS PVT LTD

LOA No. : GAIL/BLR25/69/5300047413/134411/CIVIL
LOA Date : 08.04.2026

Enclosures :

1. PROFORMA FOR CONTRACT CUM PERFORMANCE BANK GUARANTEE
2. PROFORMA FOR CONTRACT AGREEMENT
3. INTEGRITY PACT

This order is being issued in triplicate. Two copies of the order duly signed, stamped and dated on each page, may be returned within 3 days from date of receipt of the order to the undersigned..

For & on behalf of
GAIL (India) Ltd.

Sunitha
Duvvi
Digitally signed
by Sunitha Duvvi
Date: 2026.04.08
19:22:17 +05'30'

(Authorized Signatory)

NAME :
DESIGNATION :

NOTE: Each page of this order including its annexure should be signed and stamped by the contractor before returning to GAIL (India) Ltd..

SCHEDULE OF RATES

Item : 1 - CONSTRUCTION OF OFFICE BUILDING AND MISC
Plant : 3170 - NG Trans(DBPL)-Bengaluru- Karnataka (KAR)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
A	SH-1 : EARTH WORK					
A1	Earth work in excavation by mechanical m	610.680	M3	132.69	81,031.13	

Earth work in excavation by mechanical means (Hydraulic excavator) / manual means including getting out and disposal of excavated earth, disposal at as per direction of Engineer-in-Charge. All kinds of soil.(up to 1.5m lift)

A2	Filling available excavated earth (exclu	553.620	M3	146.52	81,116.40	
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Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, as per direction of Engineer-in-Charge. (up to 1.5m lift)

A3	Excavating, supplying and filling of loc	499.880	M3	523.65	261,762.16	
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Excavating, supplying and filling of local good earth (including royalty) by mechanical transport at all leads and lifts also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.

A4	Clearing jungle including uprooting of r	4,850	M2	13.15	63,777.50	
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Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and sapling etc. and removal of rubbish disposal at as per direction of Engineer-in-Charge.

A5	Supplying chemical emulsion in sealed c	145.000	L	175.49	25,446.05	
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Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%.

A6	Diluting and injecting chemical emulsion	57	M	36.79	2,097.03	
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Diluting and injecting chemical emulsion for PRE-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) as per IS Code 6313-2 With Chlorpyriphos E.C. 20% with 1% concentration and as given below: A. Treatment of soil in immediate contact with the vertical surfaces of RCC foundations using chemical emulsion at the rate of 7.5 l/m2 up to a depth of 500 mm from ground level. B. Treatment at Junction of the Wall and the Floor on inner wall surface by making a small channel 30 mm x 30 mm at all the junctions of wall and columns before the concrete/ flooring and chemical emulsion poured along the wall at the rate of 7.5 l/m2 of vertical wall or column surface up to the ground level. C. Treatment of Soil Along External Perimeter of Building- After the building is complete, the earth along the external perimeter of the building should be rodded at intervals of 150 mm and up to the ground level and chemical emulsion poured along the wall at the rate of 7.5 l/m2of vertical surfaces.

A7	Diluting and injecting chemical emulsion	362.830	M2	213.40	77,427.92	
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Diluting and injecting chemical emulsion for PRE-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) as per IS Code 6313-2 With Chlorpyriphos E.C. 20% with 1% concentration and as given below: Treatment of Top Surface of Plinth Filling- within plinth walls at the rate of 5 l/m2 with chemical emulsion before the concrete/ flooring is laid including making holes in earth to allow the emulsion to seep through.

A8	Earth work in excavation by mechanical m					
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Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means including getting out and disposal at as per direction of Engineer-in-Charge. (up to 1.5m lift)

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Item : 1 - CONSTRUCTION OF OFFICE BUILDING AND MISC
Plant : 3170 - NG Trans(DBPL)-Bengaluru- Karnataka (KAR)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
A8.1	Ordinary rock (Payment under this item s	10.000	M3	372.98	3,729.80	

Ordinary rock (Payment under this item shall only be made for excavation of ordinary rocky strata done by crow bars, pick axis etc.)

A8.2	Hard rock (Blasting prohibited) (Payment	10.000	M3	1,071.19	10,711.90	
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Hard rock (Blasting prohibited) (Payment under this item shall only be made for excavation of hard rock strata done by chiselling with use of rock hammers and cutters)

A9	Supplying and filling in plinth with san	48.600	M3	1,587.59	77,156.87	
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Supplying and filling in plinth with sand/ M-sand/Quarry Dust under floors, including watering, ramming, consolidating and dressing complete.

A10	Extra for every additional lift of 1.5 m					
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Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.

A10.1	All kinds of soil	50.000	M3	94.79	4,739.50	
A10.2	Ordinary or hard rock	10.000	M3	169.99	1,699.90	
A11	Disposal of excavated excess Rocks/RCC/P	20.000	M3	390.73	7,814.60	

Disposal of excavated excess Rocks/RCC/PCC/CC/BRICK work away from the site including conveyance of materials up to an average lead of 5 KM away from the site, and corresponding required lift, loading, unloading etc complete as directed by the Engineer-in-charge. (The quantity considered shall be net quantity of capacity of truck after deduction of 50% for looseness) (considering the maximum disposal location at 5 KM distance and is to be done at designated area as per prevailing norms of KIADB,GOVT of KA, Local Authorities at Contractor's own responsibility including any royalties, etc. all) By mechanical transport including loading, unloading and stacking. (Lead up to 5 KM away from the site)

A12	Extra for Disposal against item No. A11	10	PER	13.12	131.20	
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Extra for Disposal against item No. A11 beyond 5 KM per additional KM per Cubic metre away from the site, (PER means per additional KM per Cubic metre)

SH-2	SH-2: CONCRETE WORK					
B	Providing and laying in position cement					

Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work at all levels:

B1.1	1:2:4 (1 cement : 2 coarse sand : 4 gra	4.070	M3	5,889.50	23,970.27	
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1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

B1.2	1:4:8 (1 Cement : 4 coarse sand : 8 gra	60.000	M3	5,092.25	305,535.00	
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1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)

B2	Providing and laying damp-proof course	49.650	M2	370.58	18,399.30	
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Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).

B3	Providing & applying a coat of residual	49.650	M2	109.25	5,424.26	
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Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg

Item : 1 - CONSTRUCTION OF OFFICE BUILDING AND MISC
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S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
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per square metre on damp proof course after cleaning the surface with brushes and finally with apiece of cloth lightly soaked in kerosene oil.

B4	Providing, hoisting and fixing at all le	1.000	M3	7,913.42	7,913.42	
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Providing, hoisting and fixing at all levels precast reinforced cement concrete work including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).

SH-3	SH-3: REINFORCED CEMENT CONCRETE WORK					
C1	Providing and laying in position ready m	146.760	M3	7,105.20	1,042,759.15	

Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, finishing carriage for all leads; but excluding the cost of centering, shuttering and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:. All works up to plinth level. Concrete of M25 grade with minimum cement content of 330 kg /cum.

C2	Providing and laying in position ready m	111.360	M3	7,371.05	820,840.13	
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Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing,finishing,carriage for all leads; but excluding the cost of centering, shuttering and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:. All works above plinth level up to floor V level. Concrete of M25 grade with minimum cement content of 330 kg /cum.

C3	Steel reinforcement for R.C.C. work incl	37,693.820	KG	80.62	3,038,875.77	
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Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete at all levels. Thermo-Mechanically Treated bars of grade Fe-500D or more.

C4	Centering and shuttering including strut					
C4.1	Foundations, footings, bases of columns,	114.440	M2	293.15	33,548.09	

Foundations, footings, bases of columns, etc. for mass concrete

C4.2	Walls (any thickness) including attached	50	M2	629.80	31,490.00	
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Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.

C4.3	Columns, Pillars, Piers, Abutments, Post	351.400	M2	718.60	252,516.04	
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Columns, Pillars, Piers, Abutments, Posts and Struts

C4.4	Lintels(exceeding 1.5 m clear span) , be	421.510	M2	550.49	232,037.04	
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Lintels(exceeding 1.5 m clear span) , beams, plinth beams, girders, bressumers and cantilevers.

C4.5	Stairs, (excluding landings) except spir	14.730	M2	571.80	8,422.61	
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Stairs, (excluding landings) except spiral-staircases.

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S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
C4.6	Edges of slabs and breaks in floors and	110	M	155.90	17,149.00	
Edges of slabs and breaks in floors and walls Under 20 cm wide.						
C4.7	Suspended floors, roofs, landings, balco	419.030	M2	693.16	290,454.83	
Suspended floors, roofs, landings, balconies and access platform						
C4.8	Shelves (Cast in situ)	5	M2	693.15	3,465.75	
C4.9	Weather shades, chajjas, corbels etc. in	25	M2	710.98	17,774.50	
Weather shades, chajjas, corbels etc. including edges.						
C4.10	Small lintels not exceeding 1.5 m clear	10	M2	293.15	2,931.50	
Small lintels not exceeding 1.5 m clear span, mouldings as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.						
SH-4	SH-4: MASONRY WORK , DRY WALL PARTITION					
SH-4: MASONRY WORK , DRY WALL PARTITION & WALL PANNELLING						
D1	Block work with Cement Concrete blocks i					
Block work with Cement Concrete blocks in foundation and plinth in:						
D1.1	Cement mortar 1:6 (1 cement : 6 coarse s	56.610	M3	5,331.65	301,824.71	
Cement mortar 1:6 (1 cement : 6 coarse sand)						
D2	Providing and laying Autoclaved Aerated	27.870	M3	6,229.75	173,623.13	
Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry with 100/125/150mm to 300 mm thick with Grade-I AAC blocks of density 551 to 650 kg/ cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).						
D3	Block work with Cement Concrete blocks i					
Block work with Cement Concrete blocks in superstructure above plinth level up to floor V level in all shapes and sizes in :						
D3.1	Cement mortar 1:6 (1 cement : 6 coarse s	80.390	M3	6,807.05	547,218.75	
Cement mortar 1:6 (1 cement : 6 coarse sand)						
D4	Half brick masonry with common burnt cla	10	M2	840.09	8,400.90	
Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 at all levels. Cement mortar 1:4 (1 cement :4 coarse sand)						
SH-5	SH-5: CLADDING, MARBEL & GRANITE WORK					
E1	Stone tile (polished) work for wall lini	7.240	M2	2,704.27	19,578.91	
Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.8mm thick Granite of any colour and shade						
E2	Providing and fixing 18 mm thick gang sa					
Providing and fixing 18 mm thick gang saw cut, mirror polished and prepolished, machine cut for kitchen						

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platforms, vanity counters, window sills, facias, lift entrance, steps riser & Treads and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.

E2.1	Granite stone slab colour black, Cherry/					
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Granite stone slab colour black, Cherry/Ruby red or As approved

E2.1.1	Any Area of slab	17.640	M2	3,839.60	67,730.54	
E3	Providing edge moulding to 18 mm thick					

Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. Complete as per design approved by Engineer-in-Charge.

E3.1	Granite work	37.850	M	381.96	14,457.19	
E4	Extra for providing opening of required	2	EA	731.62	1,463.24	

Extra for providing opening of required size & shape for wash basins / kitchens sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete. (UOM: EA= Each Opening)

E5	Providing and fixing stone slab with tab					
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Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.

E5.1	Granite Stone of approved shade	1	M2	3,028.94	3,028.94	
E6	Supply and fixing of 16 mm thick pre-lam	9.040	M2	2,144.19	19,383.48	

Supply and fixing of 16 mm thick pre-laminated MDF Fluted panels of size 2440 x 132 mm fixed on to the wall with Aluminium keel and G.I Clips. The aluminium keels shall be fixed to the wall horizontally at a distance of 600 mm C/C using self-drilling screws. The Fluted shall be fixed in panels in pattern (as approved design by the engineer in charge) shall be fixed perpendicular to the aluminium keels and shall be secured using G.I Clips, the two panels shall be Jointed together using tongue and groove. (excluding Aluminium frame work material cost)

E7	Supply and installation of HPL 6mm thic	80	M2	3,870.65	309,652.00	
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Supply and installation of HPL 6mm thick Exterior grade F- Quality panels of standard size with both side décor. Panels are double hardened including acrylic polyurethane resin which is thermally cured under high pressure. Installation of panels to be done by Rivets with minimum recommended Aluminium sections, cleats, Wall Bracket, anchored by standard Hilti / Fischer or equivalent make anchor fasteners along with Thermal Separator. Installation of Panels will be done using Rear Ventilated Principles only which is ensured by providing gaps at top and bottom (for free flow of air behind the façade) for the façade and using the framework. The item is inclusive of all labour, material etc. except the Aluminium section. (Note: Aluminium section shall be paid separately under relevant SoR item)

SH-6	SH-6: DOOR, WINDOW, INTIERNAL PARTITION					
F1	Providing and fixing factory made single					

Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/ window/

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clerestory windows & desertory other Frames/ Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/ cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e. depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.

F1.1	Frame size 65 x 100 mm	5	M	830.74	4,153.70	
F1.2	Frame size 65 x 125 mm	52.450	M	1,032.80	54,170.36	
F1.3	Frame size 65 x 150 mm	10	M	1,224.21	12,242.10	
F2	Providing and fixing factory made single					

Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/ mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinge shall be paid separately).

F2.1	35 mm thick	5.670	M2	4,061.29	23,027.51	
F2.2	30 mm thick	17.330	M2	3,561.40	61,719.06	
F3	Providing and fixing wooden moulded bead					

Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete.

F3.1	50 x 20 mm	50.250	M	203.10	10,205.78	
F4	Providing and fixing IS : 12817 marked s					

Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :

F4.1	125x64x2.50 mm/125x75x2.5mm	60	EA	97.06	5,823.60	
F4.2	100x60x2.50 mm/100x75x2.50 mm	10	EA	79.50	795.00	
F5	Providing and fixing SSS finished SS 304	10	EA	771.30	7,713.00	

Providing and fixing SSS finished SS 304 grade tower bolts of size 250mmx10mm

F6	Providing and fixing SSS finished SS 304	10	EA	522.95	5,229.50	
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Providing and fixing SSS finished SS 304 grade tower bolts of size 150mmx10mm

F7	Providing and fixing CYLINDRICAL KNOB LO	9	EA	1,537.10	13,833.90	
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Providing and fixing CYLINDRICAL KNOB LOCKS having Knob Lock with Key, SS/SN finish, SS-304 grade,

F8	Providing and fixing mortice latch and	3	EA	1,765.10	5,295.30	
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Providing and fixing mortice latch and lock with 6 levers, SSS/SN finish, High Quality Zinc Alloy/Stainless Steel key etc. with necessary screws etc. complete. and a pair of lever handles

F9	Providing and fixing AL Drop (16mmx300	1	EA	1,582.05	1,582.05	
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Providing and fixing AL Drop (16mmx300mm), SSS finish, SS-304 grade with necessary screws etc. complete

F10	Providing and fixing door stopper, SN fi	6	EA	445.28	2,671.68	
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Providing and fixing door stopper, SN finish High Quality Zinc Alloy/Stainless Steel, with necessary screws etc. complete

F11	Providing and fixing aluminium handles,					
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Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :

F11.1	125 mm	20	EA	49.52	990.40	
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F12	Providing and fixing aluminium hanging					
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Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.

F12.1	Twin rubber stopper	10	EA	54.08	540.80	
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F13	Providing and fixing universal hydraulic	6	EA	2,121.01	12,726.06	
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Providing and fixing universal hydraulic door closer with Scissor Arm, High Quality Zinc Alloy/Stainless Steel, Silver finish For door weight up to 80kg, Width 850-1100mm with necessary accessories and screws etc. complete. (OZONE MODEL NO.NSK-640E STD SILVER OR Equivalent as per approved vendor list).

F14	Providing and fixing partition up to cei	68.820	M2	1,663.28	114,466.93	
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Providing and fixing partition up to ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete. 66mm overall thickness Partition with 8mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/sq.cm, Bending Strength 100 kg./ sq.cm

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F15	Providing and fixing factory made uPVC g					

Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367: Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all comers, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineers in Charge.

Wire mesh/Glazing of plain/ toughened/ laminated/ double glass unit with/without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately.

F15.1	Fixed window / ventilator with mullion /	5	M2	6,843.90	34,219.50	
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Fixed window / ventilator with mullion / transom. Using R1 series with frame (33 mm & above) x (35 mm & above) & mullion (33 mm & above) x (50 mm & above).

F15.2	Fixed window / ventilator with mullion /	2	M2	5,851.57	11,703.14	
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Fixed window / ventilator with mullion / transom. Using R3 series with frame (55 mm & above) x (45 mm & above) & mullion (55 mm & above) x (65 mm & above).(Height above 0.9m up to 2.5)

F16	Three track three panels sliding window	44.860	M2	8,128.90	364,662.45	
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Three track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body. Using R3 series with frame (98 mm & above) x (40 mm & above) & both glazed and fly screen sash (30 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system.

F17	Three track three panels sliding window	5	M2	9,248.75	46,243.75	
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Three track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body. Using R4 series with frame (115 mm & above) x (45 mm & above) & both glazed and fly screen sash (44 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi-point locking system.(Height above to 1.8m)

F18	Providing and fixing glazing in Upvc/PVC					
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Providing and fixing glazing in Upvc/PVC/aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineering- charge.

F18.1	With float glass panes of 5 mm thickness	10	M2	1,125.24	11,252.40	
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With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)

F18.2	With float glass panes of 8 mm thickness	36.900	M2	1,259.90	46,490.31	
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With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm)

F19	Providing and fixing zinc alloyed (white	24	EA	152.50	3,660.00	
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Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.

F20	Providing and fixing steel roller for uP	24	EA	86.53	2,076.72	
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Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.

F21	Providing and fixing M.S. grills of requ	190.890	KG	178.17	34,010.87	
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Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.

F22	Providing and fixing fly proof Stainless	14.410	M2	768.05	11,067.60	
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Providing and fixing fly proof Stainless steel wire gauge (Grade-304) , to windows, glazing, clerestory windows etc. using wire gauge with average width of aperture 1.4 mm in both directions and 0.50mm dia wire including fittings, consumables all complete.

F23	Supplying and installing roller blinds o	49.850	M2	1,389.05	69,244.14	
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Supplying and installing roller blinds of approved make, model and shade at all heights and location and required width and comprising of approved shade and quality fabric, 1 mm thick anodized extruded Aluminium alloy roller tube of approx. 38-mm O.D , a bidirectional operating Clutch mechanism designed for adjustment-free, slippage-free, crash proof smooth operation for all heights, high strength fiber glass reinforced polyester idler, powder coated steel Insert type brackets fitted with roller tube, round bottom rail, control unit engrooved with a Ball Pitch , Stainless Steel Ball Chain, and powder coated atomized steel installation brackets. Bottom rail along with the fabric shall be enclosed in a suitably created pocket and shall be of powder coated aluminium tube and closed from sides with end caps. The item includes all fittings, accessories, brackets, screws, anchor fasteners, fabric as per approved sample and shade all complete as per drawings, tender specifications, relevant standards and direction of Engineer in charge. (Height of blind from top bracket to bottom tube and width from bracket to bracket shall be measured for payment)

F24	Providing and fixing casement handle mad	6	EA	172.75	1,036.50	
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Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.

SH-7	SH-7: STEEL WORK					
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G1	Structural steel work riveted, bolted or	150.000	KG	99.95	14,992.50	
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Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

G2	Steel work welded in built up sections/					
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Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.

G2.1	In gratings, frames, guard bar, ladder,	2,106.500	KG	129.03	271,801.70	
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In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works

G3	Steel work in built up tubular (round, s	1,500.000	KG	145.32	217,980.00	
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Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete Hot finished seamless type tubes

G4	Providing and fixing stainless steel (Gr	300.000	KG	577.40	173,220.00	
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Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).

G5	Providing and fixing bolts including nut	50.000	KG	119.12	5,956.00	
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Providing and fixing bolts including nuts and washers complete.

G6	Providing and fixing mild steel round ho	100.000	KG	72.66	7,266.00	
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Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.

G7	Providing and fixing circular/ Hexagonal	5	EA	164.95	824.75	
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Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.

G8	Providing and applying non-shrinking cem	0.100	M3	135,257.02	13,525.70	
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Providing and applying non-shrinking cement grout in mix as per manufacturers specification for pockets of foundation, under base plate, or any other area as directed by EIC etc. including cleaning out pockets, brushing, curing, etc. complete and as per the specifications and drawings and as directed by Engineer-in-charge. The non shrinking grout shall be laid as per the manufacturer's specifications. Supply of all materials and providing labour, tools and tackles are in contractor's scope. NON SHRINK GROUT IN FOUNDATION AND POCKET

SH-8	SH-8: FLOORING WORK					
H1	Cement concrete flooring 1:2:4 (1 cement					

Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.

H1.1	40 mm thick with 20 mm nominal size ston	28.320	M2	459.14	13,002.84	
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40 mm thick with 20 mm nominal size stone aggregate

H2	Providing and fixing glass strips in joi					
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Providing and fixing glass strips in joints of terrazo/ cement concrete floors.

H2.1	40 mm wide and 4 mm thick	50.980	M	68.59	3,496.72	
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40 mm wide and 4 mm thick

H3	Kota stone slab flooring over 20 mm (ave					
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Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :

H3.1	25 mm thick	22.420	M2	1,456.40	32,652.49	
H4	Kota stone slabs 20 mm thick in risers o	2.990	M2	1,760.24	5,263.12	

Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.

H5	Providing and laying Polished Granite st	54.970	M2	3,349.96	184,147.30	
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Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent

H6	Providing and laying Vitrified tiles in					
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Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, levelling system and rubber mallet for placing the tiles gently and easily

H6.1	Glazed Vitrified tiles Matt/Antiskid fin	16.500	M2	1,095.04	18,068.16	
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Glazed Vitrified tiles Matt/Antiskid finish of size: Size of Tile 600x600 mm

H6.2	Glazed vitrified floor tiles polished fi	203.880	M2	1,123.37	229,032.68	
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Glazed vitrified floor tiles polished finish of size Size of Tile 600 x 600 mm

H7	Providing and laying Vitrified tiles in					
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Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).

H7.1	Size of Tile 600x600 mm	31.600	M2	1,415.77	44,738.33	
H8	Grouting the joints of flooring/wall til					

Grouting the joints of flooring/wall tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling /grouting and finishing complete as per direction of Engineer-in-charge.

H8.1	Size of Tile 600x600 mm	251.970	M2	231.03	58,212.63	
H9	Providing and fixing Ist quality Ceramic	59.430	M2	947.85	56,330.73	

Providing and fixing Ist quality Ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by

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the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting ,walls , risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.

H10	Providing and laying matt finished vitri	73.460	M2	1,088.16	79,936.23	
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Providing and laying matt finished vitrified tile of size 300x300/400x400/600x600mm or as required (thickness to be specified by manufacturer) having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in suitable for Parking Floor, footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.

H11	Providing and installing/ fixing in posi	10	M2	10,820.56	108,205.60	
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Providing and installing/ fixing in position 600mm-1000mm high truly levelled and aligned cavity/ false flooring system having load bearing capacity of uniformly distributed load of minimum 2025 kg/ sq.m. and point load of 660-675 Kg., the system consisting of:

(i) Sub-structure/ pedestal assembly (designed for speedy assembly/ removal for relocation/ maintenance) of zinc electro plated steel comprising of: a. 90mm x 90mm x 4mm embossed pedestal head attachment mechanically riveted to a 90mm long, minimum 16mm dia threaded bright M.S. rod stud with check nuts for level adjustment (for up to 25mm) and arresting vertical movement, anti-vibrational PVC cap (for panel and stringer location), b. Pedestal of 32mm dia (OD), 2mm thick pipe mechanically reduced to four ribs at top to accommodate head assembly, mechanically locked to maintain true plumb welded to pedestal base plate. c. Pedestal Base plate 150mm x 150mm x 4mm thick (with stiffening folds) fixed/ anchored to main concrete floor @ 600mm c/c both ways (for installing flooring tiles) by means of adhesive or fastener as recommended by Manufacturer.

(ii) Stringers of minimum sectional size 20mm x 32mm x 1.2mm made of hot dip galvanized steel cold rolled construction with ribs embossed on 3 sides (designed for strength, lateral stability, rolling loads and to support panels on all four sides for alignment), having counter sunk holes at both ends for fixing to pedestal head assembly with M6 machine screws.

(iii) Removable and re-usable Floor panels of size 600mm x 600mm having Panel core made of Non-combustible Cementitious core mixed with foaming compound and Panel Encapsulation of Top & Bottom CRCA steel sheet with epoxy Powder coating with 64/69 cone hemispherical shape to form an enclosed panel of an overall depth 35-37mm; the inner empty core of the panel injected with light weight fire retardant, non-combustible cementitious compound (at high pressure to fill all crevices of the panel), Each panel finished on top with 2mm thick Antistatic High Pressure Laminate in approved design/ shade/ texture; fixed to flooring panel by means of approved adhesive; the edges of the finished panels provided with conductive PVC edge trim 5mm wide on all sides (mechanically locked and sealed in place).

The item includes:

- Providing and fixing all accessories like screws, bolts, adhesive etc. as per manufacturer's specifications.
- Making necessary adjustment in grid dimensions, stringer lengths, floor panel dimensions etc. at ends or centre (to cater to specific room sizes) or at panels locations, as required.
- Cutting of floor panels as required at ends.
- Treating the underneath cement concrete floor with one component polyurethane floor coating etc. all complete.
- Providing additional steel structural supports/ pedestal assembly at edges, cut outs etc. as required.

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vi) Providing all necessary accessories such as outlet boxes, grommets, Panel lifters (at least one for each building) as required etc. all complete."

SH-9	SH-9: ROOFING WORK					
I1	Providing and fixing false ceiling at al	186.280	M2	1,966.34	366,289.82	

Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stitched double webbed white with 6mm reveal profile (white/black), comprising of main-T runners of size 15x42mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross- T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles

I2	Providing and fixing false ceiling at al	62.090	M2	1,175.36	72,978.10	
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Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S sheets and galvanized with zinc coating of 120 gms / sqm (both side inclusive) as per IS:277 and consisting of angle cleats of size 25 mm widex1.6mm thick with flanges of 27mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm diax40mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x 0.5mm of required length with nuts & bolts of required size and other end of angle hanger fixed with G.I. channels 45 x 15 x 0.9 mm running at the spacing of 1200 centre to centre, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having clips of 10.5 mm at 450mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64mm diaX230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre to centre, with 25mm long drive-all screws @ 230 mm interval ,including fixing of gypsum board/calcium silicate board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5x25mm at 230mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the gypsum board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering up to 150mm on both sides of joint and two coats of primer suitable for board, all as per manufacturers# specification and also including the cost of making openings for light fittings, grills diffusers, cut-outs made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer-in-Charge but excluding the cost of painting with: 8 mm thick Calcium Silicate Board made with Calcareous and Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.

SH-10	SH-10: WATER PROOFING					
J1	Providing and laying water proofing trea	22.600	M2	575.31	13,002.01	

Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of

(i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS

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2645 in recommended proportions including rounding off junction of vertical and horizontal surface.
IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.
IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.
IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).

J2	Roof water proofing:	381.310	M2	1,443.55	550,440.05	
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Roof water proofing:

Surface preparation: Cleaned the surface by using vacuum and ensure the surface is free from laitance, loose or friable materials, debris etc. Ensure the substrate has properly cured and the concrete is profile free, no ridges or troughs. Surface profile of CSP 4 or CSP 5 OR Equivalent is preferred substrate. If concrete surface found to be defective with pinholes, bug roles, honeycombs etc., it must be repaired using scratch coat prepare by mixing Dr. Fixit Cipoxy 16D OR Equivalent as per approved vendor list primer and 4 mm down silica sand at ratio of 1:1 by weight. Apply the scratch coat by using suitable spatula/squeeze to get level surface for the upcoming primer.

Angel Fillet treatment: Angle Fillets/Vata/Coving must provide at size of 50 x 50 mm on all vertical up-stands & junctions /corners with cement sand Polymer modified mortar all around the periphery. Alternatively, all vertical up-stands and junctions, wall floor joints, mechanical installation shall be treated with Dr. Fixit Joint Tape OR Equivalent as per approved vendor list as recommend in technical data sheet and Mechanical installations

Crack Treatment (Non leaking cracks) (As per the requirement): The crack should be treated Dr. Fixit Tape OR Equivalent as per approved vendor list with Adhesive with two part epoxy based adhesive 1-2mm thickness on each side of the joint where at least 50mm stays beyond the edge are sealed with recommended epoxy adhesive. Providing and carry out expansion joint treatment(As per the requirement): After proper surface preparation to remove loose mortars, dust, foreign particles from joints, fixing of tightly packed closed cell polyethylene based back up rod or filler board to ensure no gaps or voids exists, mask face edge of the joint using masking tape for neat finish, mixing of Dr. Fixit Tape Adhesive # Two part Epoxy Adhesive OR Equivalent as per approved vendor list using slow speed drill till get homogeneous mix, apply it to prepared joint 1-2mm thick with notched trowel or putty blade, tooled to a smooth finish and finally fixing of Dr. Fixit Seal Tape OR Equivalent as per approved vendor list# Flexible expansion joint membrane available in 1mm thickness exhibiting superior mechanical properties like, Elongation > 500%, Tensile Strength > 12N/mm2, Tear Strength > 200N above joint followed by another layer of epoxy adhesives Dr. Fixit Tape Adhesive OR Equivalent as per approved vendor list as complete as per manufacturer#s specification. For joint over end laps, the overlaps surfaces must be clean, wiped and heat welded with at hot air welding gun with 100 mm overlap. After application the system should be allowed to cure for 7 days. In case of exposed condition/ Trafficable joint/higher water pressure joints > 1.5 bar up to 3 bars, protect the joint with a metal plate screwed at one end. The Adhesive area to be painted by any acrylic coating as a protective top coat.

Crack Treatment (Leaking cracks on RCC slab) (As per the requirement): Clean the identified crack and remove drilling dust before placing the nozzle. Seal and pack the nozzle with fast setting Dr. Fixit Instant Leak Plug OR Equivalent as per approved vendor list compound. Injection of cement slurry admixed with admixture Dr. Fixit Pidicrete AM OR Equivalent as per approved vendor list (225gms/ bag of cement) by using 40PSI grout pump. The product is to be dispensed in water & added to 50 kg of cement at a water cement ratio of 0.4-0 # 0.45. The mixture thus batched is to be used for injection grouting. Dr. Fixit Pidicrete AM OR Equivalent as per approved vendor list has a bulk density of 0.7-0.8 gm/cc.

Waterproof Coating: Providing & applying of High Solid Content, Cold Liquid- Applied Single component Solvent Based Polyurethane Elastomeric Water Proofing Membrane using Brush/ roller / airless spray to form a minimum system thickness of 1.5mm in three coats with a total consumption Dr. Fixit Flexi PU 270 (I) OR Equivalent as per approved vendor list is 2.5Kg/m² to achieve 1.5mm DFT. The 2.5 kg/m² is minimum recommended consumption when applied in three layers to achieve a DFT of 1.5 mm to comply with ASTM C

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898 Standard Guide for use of High Solid Content, Cold Liquid- Applied Elastomeric Water Proofing Membrane. Allow the membrane to air cure for 7 days before any activity over it.
Also apply Dr. Fixit Cipoxy 16D primer OR Equivalent as per approved vendor list at an application rate of 0.20 Kg / m2 before application of water proofing membrane and allow it to touch dry condition for take 3 -4 hours.

The PU membrane shall be terminated 300mm above FFL, self-curing for 7 days. The Waterproofing material shall have Solids > 85%, Tensile strength > 2 MPa as per ASTM D 412, Elongation > 400% as per ASTM D 412, crack bridging up to 3.2mm as per ASTM C 1305, Shore A Hardness > 50 as per ASTM D 2240-15, Adhesion to concrete > 1.5Mpa as per ASTM D 7234, Water vapor permeability > 14gm / m2 / day as per ISO 9932:91.

Separation Layer: Providing & Laying 120 GSM Geotextile (non-woven polyester) membrane with a min of 100mm wide overlap loosely laid over Dr. Fixit Flexi PU 270(I) membrane, etc., complete

Horizontal Protection: Providing & laying of average 100 mm thick protective screed of M20 (Nominal Mix 1:1.5:3) grade by keeping minimum 50mm thickness at drainage point with slope 1:100 containing 12 mm, 100% virgin polypropylene fibers @ 0.9 Kg/Cu.m with a broom finish, well compacted, curing for 7 days etc. complete. The screed shall be raised to the wall in the form of vatta to achieve a smooth corner. The screed shall be divided into panels of 3.25 mtr X 3.25 mtr with 6 mm wide x10mm deep Control joint and filling the same with Dr. Fixit PU sealant OR Equivalent as per approved vendor list, confirms to ASTM C-920-S, NS, 25 & BS EN ISO#11600: 2003 Type F & G as per manufacturer specification, etc, complete.

Vertical wall Protection plaster: Providing & laying 15mm THK protective plaster of C:M # 1:4 admixed with integral waterproof compound conforming to IS 2645:2003, Pidiproof LW+ OR Equivalent @ 200ml per bag of cement, over the waterproofing membrane for vertical protection after application of Dr. Fixit Epoxy Bonding agent OR Equivalent / Dr. FixitCipoxy 16D OR Equivalent as per approved vendor list primer and sprinkling of quartz sand to create key for the plaster. Including finishing & water curing of plaster for minimum 7 days.

Note 1: The water proofing shall be carried out by authorized applicator of the manufacturer.

Note 2 : The contractor shall furnish 5 Years Warranty for water proofing work from Authorized applicator/Manufacturer.

Note 3: Measurement of plan area of the roof shall be done for payment purposes.

Note 4 : The rate is inclusive of all material, labour, equipment etc. as described above except 1:1.5:3 concrete grading material which is to be paid separately.

Note 5: The water proofing chemical and primer should be from same manufacturer.

J3	Grading roof for water proofing treatmen	38.130	M3	7,742.71	295,229.53	
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Grading roof for water proofing treatment with Cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)

J4	Providing gola 75x75 mm in cement concre	100	M	228.11	22,811.00	
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Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement :2 coarse sand : 4 stone aggregate 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design In 75x75 mm deep chase

J5	Making khurras 45x45 cm with average min	10	EA	222.95	2,229.50	
SH-11	SH-11: FINISHING WORK					
K1	12 mm cement plaster of mix : 1 :6 (1 c	251.040	M2	256.89	64,489.67	

12 mm cement plaster of mix : 1 :6 (1 cement: 6 coarse sand)

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K2	15 mm cement plaster of mix : 1:6 (1 cem	376.560	M2	295.54	111,288.54	
15 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)						
K3	6 mm cement plaster of mix : 1:3 (1 cem	163.490	M2	224.60	36,719.85	
6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)						
K4	6 mm cement plaster 1:3 (1 cement : 3 fi	20	M2	296.51	5,930.20	
6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.						
K5	Neat cement punning.	25	M2	59.77	1,494.25	
K6	Extra for providing and mixing water pro	200	EA	16.52	3,304.00	
Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers. (Each means here is per bag of 50kg cement used in the mix)						
K7	Providing and fixing GI hexagonal chicke	125.520	M2	101.86	12,785.47	
Providing and fixing GI hexagonal chicken wire mesh of size 12mm x22g or as required at the junction of dissimilar surfaces of brick masonry wall and R C C column by beams or as required including necessary nails for fixing etc, complete all as per specification and direction of Engineer -in -charge for all floor at all heights.						
K8	Add for plaster drip course/ groove in p	73.640	M	58.61	4,316.04	
Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.						
K9	18 mm cement plaster in two coats under	339.900	M2	387.64	131,758.84	
18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).						
K10	Providing and applying white cement base	627.590	M2	116.65	73,208.37	
Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.						
K11	Wall painting with premium acrylic emuls	658.970	M2	106.75	70,345.05	
Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats						
K12	Applying priming coats with primer of ap	658.970	M2	55.28	36,427.86	
Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre						
K13	Painting with synthetic enamel paint of	25	M2	169.13	4,228.25	
Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work						
K14	Finishing walls with Acrylic Smooth exte	50	M2	120.06	6,003.00	
Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @						

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1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)

K15	Finishing walls with textured exterior p	339.900	M2	420.15	142,808.99	
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Finishing walls with textured exterior paint of required shade and pattern in 4 steps including One coat of exterior primer(1st step) and Asian Paints Apex Createx OR Equivalent as per approved vendor list (2nd step) and One coat of Asian Paints Exterior Wall Primer OR Equivalent as per approved vendor list (3rd step) and Two or more coats of Asian Paints Apex Ultima OR Equivalent (4th step) as per approved vendor list. The item is inclusive of all labour, material, scaffolding, surface preparation for coating & paint including filling of plaster crack with recommended crack filler by manufacturer, etc all complete.

K16	Finishing walls with Acrylic Smooth exte	50	M2	90.27	4,513.50	
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Finishing walls with Acrylic Smooth exterior paint of required shade : Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm)

K17	Painting with synthetic enamel paint of	20	M2	76.85	1,537.00	
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Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work

K18	Removing dry or oil bound distemper, wat	50	M2	18.80	940.00	
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Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.

SH-12	SH-12: ALUMINIUM & STRUCTURAL GLAZING WO					
L1	Providing and fixing aluminium work for					

Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :

L1.1	For fixed portion					
L1.1.1	Powder coated aluminium (minimum thickne	95.290	KG	396.87	37,817.74	

Powder coated aluminium (minimum thickness of powder coating 50 micron)

L2	For shutters of doors, windows & ventila					
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For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)

L2.1	Powder coated aluminium (minimum thickne	102.550	KG	474.28	48,637.41	
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Powder coated aluminium (minimum thickness of powder coating 50 micron)

L3	Providing and fixing 12 mm thick prelami	10	M2	851.68	8,516.80	
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Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and

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partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineering-charge. Pre-laminated particle board with decorative lamination on both sides

L4	Providing and fixing 12mm thk. Toughened	39.720	M2	4,631.03	183,944.51	
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Providing and fixing 12mm thk. Toughened float glass glazing cut including glass formwork as per manufacture's requirement using a special extruded aluminium structure and fixed in openings of desired shape as per drawing with 3/4" bevelling all around, with top, bottom and side 'C' channels as per manufacture's specifications, fixed firmly to the slab/ MS Structure , including required SS fittings, Gaskets, filling of Silicon sealant in the joints or optional vertical transparent polycarbonate joints to ensure that the glass panes remain perfectly flush with each other as directed by Engineer in Charge. Stability and soundproofing are ensured by a series of soft extruded PVC seals, located along the outside perimeters, securing the glass panes.(Area of openings to be measured for payment purposes.)

L5	Providing and fixing 12 mm thick frameless	20.790	M2	14,427.40	299,945.65	
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Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing all patch fittings Over panel side panel connecting patch fitting with pivot, top patch, bottom patch fittings, Panel connectors, Corner patch lock, Hydraulic floor spring,H-type pull handle (min 30mm x350mm) etc. all complete and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge. All patch fittings shall be of SS 316 grade and SSS/SN finish.(Area of openings to be measured for payment purposes.)

L6	Providing and fixing film etching with p	45.390	M2	1,157.75	52,550.27	
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Providing and fixing film etching with plotter cutting and application of approved make make as per approved design on glass surfaces all complete as per instructions and patterns and design of the Architect/ Engineer-In-Charge.

L7	Providing and supplying aluminium extrud	778.240	KG	309.71	241,028.71	
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Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.

L8	Designing, fabricating, protect	81.920	M2	2,624.25	214,978.56	
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Designing, fabricating, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:

- Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminium sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)- cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:
- Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers
- Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant

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compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.

(d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.

(e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, duly approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge.

Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.

L9	Providing and supplying Spandrel Glass P	81.920	M2	1,831.55	150,040.58	
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Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- in- Charge. For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevant Item*).(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 K etc.

L10	Extra for openable side / top hung visio	5	M2	2,744.60	13,723.00	
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Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per t drawings as specified and as directed by the Engineer-in-Charge.

SH-13	SH-13:ROAD WORK					
M1	Preparation and consolidation of sub gra	1,409.550	M2	163.64	230,658.76	

Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead up to 50 metres.

M2	Construction of granular sub-base by pro					
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Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a

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mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.

M3	With material conforming to Grade-I (siz	123.000	M3	2,081.16	255,982.68	
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With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30

M4	Providing, laying, spreading and compact	123.000	M3	2,178.56	267,962.88	
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Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.

M5	Providing and laying RCC/CC pavement of	123.000	M3	7,343.71	903,276.33	
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Providing and laying RCC/CC pavement of mix M-25 (with minimum cement content of 330 kg /cum) with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator ,vacuum dewatering process and finally finished by floating vibrator, brooming with wire brush, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of panel shuttering work, joint fillers, sealants, dowel bars, panel reinforcement with sleeve/ tie bars to be paid separately). etc. complete as per specifications and directions of Engineer-in-charge.

M6	Extra for providing and mixing hardening	200.000	L	41.49	8,298.00	
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Extra for providing and mixing hardening compound of approved quality as per manufacturer's specification in cement concrete.

M7	Providing and fixing pre-moulded joint f	3,690	EA	3.96	14,612.40	
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Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Engineer-in-Charge. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.) (UOM: EA= one cm. depth one cm. width per M length.)

M8	Providing and filling in position rubber	1,230	EA	6.47	7,958.10	
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Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge. Using grade #A# sealing compound conforming to IS: 1834.(UOM: EA= one cm. depth one cm. width per M length.)

M9	Providing and laying factory made chamfe	152	M2	815.94	124,022.88	
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Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.

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M10	Providing and laying at or near ground l	15.000	M3	7,563.33	113,449.95	
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Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).

M11	Providing road roller 8 to 10 tonne for	50	PER	388.05	19,402.50	
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Providing road roller 8 to 10 tonne for surface rolling of loose soil as per site condition and direction engineer - in charge. The rate includes cost of fuel, driver, labour etc. all complete (PER means Per Hour of running at site)

M12	Boring with hydraulic piling rigs with p					
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Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured up to to the bottom of pile cap) :

M12.1	300 mm dia piles	10	M	2,291.67	22,916.70	
M12.2	450 mm dia piles	10	M	3,164.16	31,641.60	
M13	Extra for using M-35 cement concrete in	20.000	M3	461.62	9,232.40	

Extra for using M-35 cement concrete in place of M-25 cement concrete in above piling item no. M12

SH-14	SH-14: LANDSCAPING & HORTICULTURE					
N1	Supplying and stacking of good earth sui	50.000	M3	600.84	30,042.00	

Supplying and stacking of good earth suitable for gardening purposes at site including royalty and all leads & lifts complete (earth measured in stacks will be reduced by 20% for payment).

N2	Supplying and stacking of well decayed c	30.000	M3	498.69	14,960.70	
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Supplying and stacking of well decayed cattle manure at site including royalty and and all leads & lifts complete (Cattle manure measured in stacks will reduced by 8% for Payment).

N3	Mixing & spreading of sludge, dump manur	80.000	M3	59.58	4,766.40	
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Mixing & spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge (cost of sludge, dump manure and/ or good earth to be paid separately).

N4	Mixing & spreading earth and sludge or m	80.000	M3	41.64	3,331.20	
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Mixing & spreading earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge

N5	Edging with bricks laid dry length wise,	100	M	36.52	3,652.00	
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Edging with bricks laid dry length wise, including required excavation, refilling, consolidating with hand packing and spreading surplus earth neatly within a lead of 50m :

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N6	Providing & laying of Selection no. 1 Do	500	M2	85.00	42,500.00	

Providing & laying of Selection no. 1 Doob grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same and maintenance for 30 days or more till the grass establish properly, as per direction of the officer-in-charge.

N7	Grassing with selection No. 1/ Doob gras	10	M2	15.18	151.80	
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Grassing with selection No. 1/ Doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately).With grass Turf

N8	Uprooting rank vegetation and weeds by d	500	M2	69.45	34,725.00	
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Uprooting rank vegetation and weeds by digging the area to a depth of 60 cm, removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.

N9	Digging holes in ordinary soil and refil					
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Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, planting the saplings dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately).

N9.1	Holes 1.2 m dia and 1.2 m deep	40	EA	271.17	10,846.80	
N9.2	Holes 90 cm dia, and 90 cm deep	20	EA	116.24	2,324.80	
N9.3	Holes 60 cm dia, and 60 cm deep	20	EA	35.77	715.40	
N9.4	Holes 45 cm dia, and 45 cm deep.	20	EA	15.44	308.80	
N10	Providing, stacking and Displaying Budde	10	EA	26.76	267.60	

Providing, stacking and Displaying Budded Rose (H.T. variety) 3 to 4 healthy branch 30 cm and above ht. well developed with one and above flower plant in 20 cm Earthen Pot/Plastic Pot with base plate as per direction of the officer-in-charge.

N11	Providing, stacking and Displaying Creep	10	EA	59.95	599.50	
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Providing, stacking and Displaying Creeper Rose variety 3 to 4 healthy branch 60 cm and above ht. well developed with one and above flowers in 25 cm Earthen Pot/Plastic Pot with base plate as per direction of the officer-in charge

N12	Providing, stacking and Displaying of St	10	EA	119.91	1,199.10	
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Providing, stacking and Displaying of Standard Rose (H.T. variety) 3 to 4 healthy branch 90 cm and above ht. well developed with one and above flowers in 25 cm Earthen Pot/Plastic Pot with base plate as per direction of the officer in-charge.

N13	Providing and stacking of Azadirachta in	10	EA	53.97	539.70	
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Providing and stacking of Azadirachta indica (Neem) height 120-130cm in polybag size 25 cm as per direction of the officer-in-charge.

N14	Providing and stacking of Bottle palm ht	10	EA	283.43	2,834.30	
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Providing and stacking of Bottle palm ht. 210-240 cm bottom girth 30- 35 cm well developed in big HDPE bag as per direction of the officer-in charge

N15	Providing and stacking of Ficus benjamin	5	EA	85.48	427.40	
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Providing and stacking of Ficus benjamina (green) height 120-135 cm. with 6-8 branches and lush green foliage in gunny bag size 25 cm as per direction of the officer-in-charge.

N16	Providing and stacking of Phyllanthus em	5	EA	72.89	364.45	
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Providing and stacking of Phyllanthus emblica (Amla) height 150-165 cm. in big HDPE Bag as per direction of the officer-in-charge.

N17	Providing and stacking of Polyalthia lon	5	EA	81.00	405.00	
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Providing and stacking of Polyalthia longifolia (Ashok) height 180-195 cm. in gunny bag size 30 cm as per direction of the officer-in-charge

N18	Providing, stacking and Displaying Areca	10	EA	138.33	1,383.30	
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Providing, stacking and Displaying Areca Palm having ht. 1.20 m to 1.50 m with 5 to 6 suckers, well developed, fresh and healthy with lush green foliage in 25 cm Earthen Pot/Plastic with base plate Pot as per direction of the officer in-charge.

N19	Providing, stacking and Displaying Aglao	5	EA	55.36	276.80	
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Providing, stacking and Displaying Aglaonema Parrot Jungle plant (three in one), having ht. 30 cm and above with 20 to 25 leaves, well developed, fresh & healthy in 25 cm size of Earthen pot / Plastic pot with base plate and as per direction of the officer-in-charge.

N20	Providing, stacking and Displaying Croto	5	EA	138.33	691.65	
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Providing, stacking and Displaying Croton Golden specimen having ht. 90 cm to 105 cm with 5 to 6 branches, well developed, fresh and healthy foliage in 30 cm size of Earthen pot /Plastic pot with base plate and as per direction of the officer-in-charge.

N21	Providing, stacking and Displaying Croto	5	EA	272.07	1,360.35	
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Providing, stacking and Displaying Croton Petra Bangalore variety having ht. 60 cm to 75 cm with 4 to 6 branches, well developed, fresh and healthy colourful leaves in 25 cm size of Earthen pot/Plastic pot with base plate and as per direction of the officer-in-charge.

N22	Providing Cement Concrete pots of total	10	EA	211.07	2,110.70	
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Providing Cement Concrete pots of total height 30-35 cm with wall thickness of 25.4 mm including painting of pots.

N23	Transplantation of trees with in a dista					
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Transplantation of trees with in a distance of 2km including excavation around existing tree, pruning of branches, lifting, loading and transportation of existing tree, digging pits for placing tree at new place, adding manure, sand, fertilizer, hormones and bio fertilizer to it. Levelled and neatly dressed and disposal of surplus materials from old existing and new sites to designated place. Each tree should be firmly secured to the stake so as to prevent excessive movement, flooding with water, treatment of roots, rope and gunny bags as per direction of the officer in charge. T&P and all required materials shall be arranged by the contractor and nothing extra shall be paid on this account. Girth of tree shall be measured at a height of 1m above ground level.

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N23.1	Girth of trees up to 90cm.	1	EA	4,182.87	4,182.87	
N23.2	Girth of trees beyond 90cm	1	EA	8,933.77	8,933.77	
N24	Providing and displaying of Croton Petra	10	EA	92.25	922.50	

Providing and displaying of Croton Petra having ht. 45 cm & above with 2 to 3 branches, well developed, fresh and healthy leaves in 25 cm size of Earthen pot/Plastic pot with base plate & as per direction of the officer-in-charge.

SH-15	SH-15: OTHER MISC. WORKS					
O1	Demolishing R.C.C./Brick/CC work manually	5.000	M3	1,772.93	8,864.65	

Demolishing R.C.C./Brick/CC work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.

O2	Repairs to plaster of thickness 12 mm to	20	M2	419.00	8,380.00	
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Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. With cement mortar 1:4 (1cement: 4 coarse sand)

O3	Trapezoidal profiled sheeting 1000-1020	135	M2	587.74	79,344.90	
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Trapezoidal profiled sheeting 1000-1020 mm cover width, 28 -30 mm high crests manufactured out of 0.50 mm TCT hi-tensile pre-primerd & painted Zinalume /Galvalume steel (AZ-150 gsm. Aluminium #Zinc alloy metallic coating of total both sides 550 Mpa yield stress as per AS-1397). The sheet shall be fixed with self drilling/ self tapping screw with EPDM seal complete. The cost shall include the cost of erecting the sheets and fixing the same with approved make screw/ washer etc. All complete. The area measured in plan shall be measured for payment and no extra payment shall be made for overlaps. Accordingly the bidder is required to quote his rates. The sheet shall be supplied in lengths maximum up to 6- 12 Mtrs long to suit site dimensions. For all heights.

O4	Trapezoidal profiled/ Plain sheeting in	13.500	M2	587.74	7,934.49	
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Trapezoidal profiled/ Plain sheeting in ridges, curved surface, North light Curve, Apron Piexce, rain water Gutter etc., manufactured out of 0.50 mm TCT hi-tensile pre-primerd & painted Zinalume /Galvalume steel (AZ-150 gsm. Aluminium #Zinc alloy metallic coating of total both sides 550 Mpa yield stress as per AS-1397) The sheet shall be fixed by means of Galvanized self-drilling self tapping fasteners (12-14x55 with EPDM seals). The sheet shall be supplied in lengths maximum up to 6-12 Mtrs long to suit site dimensions. For all heights.

O5	Providing and fixing LED signage of 3mm	8	M2	12,865.13	102,921.04	
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Providing and fixing LED signage of 3mm Acrylic sheet with 2.5-inch Acrylic raising with 3D LED (ADS & Samsung LED or Equivalent) Tailored letters & Logo with SMPS Power supply of upward or equivalent as per the drawing/details along with required scaffolding while erection all complete as per direction of EIC. The end to end area of letter line (including space between letters) /rectangular area for logo shall be measured for payment purposes.

O6	Providing and fixing VINYL STICKERING in	10	M2	793.48	7,934.80	
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Providing and fixing VINYL STICKERING including Logo/lettering etc. all complete as per direction of EIC.

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The end to end area of letter line (including space between letters) /rectangular area for logo shall be measured for payment purposes.

O7	Providing and fixing area specific text	0.500	M2	45,085.67	22,542.84	
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Providing and fixing area specific text and graphic signages made out of 2mm thk. brush finished (as per ls:304) stainless Steel (304 grade) sheet base and text/graphics finished with deep engraving by acid etch silk screen photo process with duly filled in stove enamel paint of approved colour and shed including fixing the base sheet by means of required nos. counter sunk screws provided with a cap and/3M double side foam adhesive wherever required as directed by the engineer-in-charge.

O8	Providing 3 nos. of 3mm grooves at spac	50	M	63.12	3,156.00	
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Providing 3 nos. of 3mm grooves at spacing of 30mm in Kota / Marble/ granite stone laid in stairs, treads/ landings all complete as per the direction of Engineer-In- Charge. (Single measurement shall be considered for 3 parallel grooves)

O9	Providing and Placing in position suitab	15	M	200.27	3,004.05	
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Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :Dumb bell with central bulb (180 mm wide, 8 mm thick).

SH-16	SH-16:PLUMBING WORKS					
P	SANITARY FIXTURE					
P1	Providing and fixing white vitreous chin	6	EA	5,985.27	35,911.62	

Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid.

P2	Providing and fixing first quality white	5	EA	3,413.07	17,065.35	
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Providing and fixing first quality white vitreous china Under Counter Basin with Fixing Accessories Size: 605x430x200 Mm shape: Oval basin for under counter mounting, specially fabricated CI / MS brackets, painted with two or three coats of enamel paint of approved shade over a coat of primer, waste coupling, 32 mm CP brass waste and CP brass cast bottle trap and pipe to wall with CP brass flange and rubber adopter for waste connection complete including filling gap between counter and wash basin with approved type poly sulphide sealant, cutting and making good the walls wherever required. (JAQUAR Cat No - CNS-WHT-705 or equivalent as per approved vendor list)

P3	Providing and fixing white vitreous chin	2	EA	5,964.79	11,929.58	
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Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable bracket all as per manufacturers specification and direction of Engineer-in-charge.

P4	Providing and fixing Pillar Cock Auto Wi	2	EA	1,744.15	3,488.30	
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Providing and fixing Pillar Cock Auto With Closing System (Jaquar Model No. PRS-CHR-031OR Equivalent as per approved vendor list)

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S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
P5	Providing and fixing C.P. brass bib cock	5	EA	378.85	1,894.25	

Providing and fixing C.P. brass bib cock/stop cock of approved quality conforming to IS:8931 :15 mm nominal bore

P6	Providing and fixing C.P. brass long nos	5	EA	613.51	3,067.55	
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Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards.15 mm nominal bore

P7	Providing and fixing uplasticised PVC co	5	EA	68.31	341.55	
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Providing and fixing uplasticised PVC connection pipe with brass unions : 30-45 cm length 15 mm nominal bore

P8	Providing and fixing CP Brass 32mm size	1	EA	773.56	773.56	
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Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge including the connection of the same up to the waste pipe on floor.

P9	Providing and fixing P.V.C. waste pipe f	1	EA	89.37	89.37	
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Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe

P10	Providing and fixing 600x450 mm bevelled	5	EA	1,202.01	6,010.05	
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Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.

P11	Providing and fixing SS steel toilet pap	5	EA	1,111.45	5,557.25	
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Providing and fixing SS steel toilet paper holder with flap of approved quality: (JAQUAR Model No - ACN-CHR-1153N OR Equivalent as per approved vendor list)

P12	Providing and fixing C.P. brass angle va	10	EA	429.31	4,293.10	
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Providing and fixing C.P. brass angle valve for basin mixer of approved quality conforming to IS:8931: 15 mm nominal bore

P13	Providing and fixing PTMT soap Dish Hold	5	EA	83.31	416.55	
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Providing and fixing PTMT soap Dish Holder .

P14	Providing and fixing Stainless steel, ch	5	EA	1,157.76	5,788.80	
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Providing and fixing Stainless steel, chrome finish towel rail ,600 mm long. (Jaquar Model No. ACN-CHR-1111SM OR Equivalent as per approved vendor list)

P15	Providing and fixing specially abled was	1	LS	44,805.05	44,805.05	
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Providing and fixing specially abled washroom package (Sanitaryware) which includes EWC with back rest and soft close seat cover, 2 nos wall mounted grab bar,1 nos wall mounted U shaped hand rail, wall hung wash basin for specially abled, cistern, etc.

P16	Providing and fixing Stainless Steel A I	1	EA	5,192.06	5,192.06	
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Providing and fixing Stainless Steel A ISI 304 kitchen sink as per IS: 13983 with C.I. brackets and stainless

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steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :Kitchen sink with drain board 510x1040 mm bowl depth 250 mm.

P17	Providing and fixing Kitchen Water Savin	1	EA	1,763.30	1,763.30	
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Providing and fixing Kitchen Water Saving 3LPM Aerator with Shower Flow - Suitable for Inner(24mm) & Outer(22mm) Threads complete for all taps, faucet, etc. complete as required. (ECO365 OR Equivalent as per approved vendor list)

P18	Providing the Wall Mounted Swivel Spout	1	EA	3,503.48	3,503.48	
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Providing the Wall Mounted Swivel Spout Kitchen Sink Mixer

P19	Providing and fixing Hand shower (health	5	EA	1,574.55	7,872.75	
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Providing and fixing Hand shower (health Faucet) with 8mm dia 1.0 Meter long Flexible tube And wall Hook of quality and make as approved by Engineer - in - charge. (JAQUAR Cat No - ALD-CHR-573 OR Equivalent as per approved vendor list)

P20	Providing and fixing of C.P. brass twin	5	EA	346.70	1,733.50	
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Providing and fixing of C.P. brass twin coat hook with PVC rawl plug & C.P. brass screw complete as required.

P21	Providing and fixing heavy duty S.S. Flo					
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Providing and fixing heavy duty S.S. Floor grating (Cockroach proof) with frame of approved design including setting in floor with cement motor to match with floor finish as per architect requirement.

P21.1	Size 150 mm x 150 mm or 125 mm dia	5	EA	555.72	2,778.60	
P21.2	Size 100 mm x 100 mm or 100 mm dia	1	EA	416.79	416.79	
2510	WATER SUPPLY					
P22	Providing and fixing Chlorinated Polyvin					

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall

P22.1	Intenal work - Exposed on wall					
P22.1.1	15 mm nominal dia Pipes	26	M	214.40	5,574.40	
P22.1.2	20 mm nominal dia Pipes	27	M	250.43	6,761.61	
P22.1.3	25 mm nominal dia Pipes	60	M	300.18	18,010.80	
P23	Providing and fixing Chlorinated Polyvin					

Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.

P23.1	15mm nominal outer dia pipes.	50	M	372.13	18,606.50	
P23.2	20 mm nominal outer dia pipes.	30	M	401.88	12,056.40	
P23.3	25mm nominal outer dia pipes	10	M	468.90	4,689.00	
P24	Providing and fixing G.I. pipes complete					

Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work

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P24.1	25mm nominal outer dia pipes.	20	M	349.66	6,993.20	
P24.2	32mm nominal outer dia pipes	25	M	403.90	10,097.50	
P25	Painting G.I. pipes and fittings with tw					

Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :

P25.1	25 mm diameter pipe	20	M	13.72	274.40	
P25.2	32 mm diameter pipe	25	M	16.60	415.00	
P26	Providing and fixing G.I. Union in G.I.	5	EA	328.36	1,641.80	

Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :25 mm nominal bore

P27	Providing and fixing G.I. Union in G.I.	5	EA	365.59	1,827.95	
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Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :32 mm nominal bore

P28	Providing and fixing G.I. pipes complete	5	M	412.42	2,062.10	
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Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall 25 mm dia nominal bore

P29	Providing and fixing G.I. pipes complete	5	M	498.61	2,493.05	
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Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall 32 mm dia nominal bore

P30	Providing and fixing gun metal non- retu					
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Providing and fixing gun metal non- return valve of approved quality (screwed end) :

P30.1	25 mm nominal bore Horizontal	1	EA	442.10	442.10	
P30.2	25 mm nominal bore Vertical	2	EA	466.54	933.08	
P30.3	32 mm nominal bore Horizontal	1	EA	591.98	591.98	
P30.4	32 mm nominal bore Vertical	1	EA	635.60	635.60	
P31	Providing, installation, testing and com					

Providing, installation, testing and commissioning of stainless steel Y- strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.

P31.1	25 mm dia	1	EA	2,401.89	2,401.89	
P31.2	32 mm dia	1	EA	3,707.28	3,707.28	
P32	Providing and fixing gun metal gate valv					

Providing and fixing gun metal gate valve with C.I. wheel of approved quality screwed end

P32.1	20 mm nominal bore	10	EA	403.64	4,036.40	
P32.2	25 mm nominal bore	10	EA	465.27	4,652.70	
P32.3	32 mm nominal bore	5	EA	515.51	2,577.55	
P33	Providing and fixing ball valve (brass)					

Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :

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P33.1	20 mm nominal bore	2	EA	345.74	691.48	
P33.2	25 mm nominal bore	4	EA	346.90	1,387.60	
P34	Fixing Water meter and stop cock in G.I.	1	EA	607.23	607.23	

Fixing Water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).

P35	Providing water level indicator or Autom	2	EA	800.98	1,601.96	
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Providing water level indicator or Automatic water Level Indicator with Musical Alarm on Tank Full and Buzzer on Tank

P36	Providing and placing on terrace (at all	2,000.000	L	8.22	16,440.00	
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Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank

2890	SEWERAGE & DRAINAGE NETWORK					
P37	Providing and fixing SWR uPVC PIPES Type					

Providing and fixing SWR uPVC PIPES Type B conforming to IS 13592 quick fit including all fittings bend, elbow, door tee, tee, Y Tee, end cap and connecting with chamber/Manhole/traps etc. all inclusive etc. complete

P37.1	75 mm outer dia	60	M	649.75	38,985.00	
P37.2	110 mm outer dia	30	M	812.19	24,365.70	
P38	Providing and fixing square-mouth S.W. g	4	EA	2,043.93	8,175.72	

Providing and fixing square-mouth S.W. gully trap class SP-I complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 450 x 450 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:150x100 mm size P type

P39	Supplying and fixing C.I. cover 300x300	4	EA	588.32	2,353.28	
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Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg

P40	Providing and laying non-pressure NP2 cl					
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Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete

P40.1	150 mm dia. RC.C. pipe	20	M	415.97	8,319.40	
P40.2	250 mm dia. RC.C. pipe	10	M	672.64	6,726.40	
P40.3	300 mm dia. R.C.C. pipe	10	M	743.28	7,432.80	
P41	Making soak pit 2.5 m diameter 3.0 metre	1	EA	20,080.41	20,080.41	

Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and SW. drain 100 mm diameter, 1.8 m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks.

P42	Honey-comb brick work 10 / 11.4 cm thick	10	M2	531.88	5,318.80	
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Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks at all levels with cement mortar 1:4 (1 cement : 4 coarse sand).

P43	Supply & filling of broken brick bats an	5.000	M3	596.61	2,983.05	
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Supply & filling of broken brick bats and filling into soak pit of size 120 mm to 40 mm.

P44	Providing M.S. foot rests including fixi	10	EA	371.15	3,711.50	
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Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design : With 20 mm diameter round bar

P45	Providing and fixing soil, waste and ven	2	M	882.66	1,765.32	
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Providing and fixing soil, waste and vent pipes 100mm, Centrifugally cast (spun) iron socketed pipe as per IS: 3989

P46	Providing, fixing and jointing UV stabil	50	M	396.74	19,837.00	
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Providing, fixing and jointing UV stabilised uPVC rain/waste water pipes conforming to IS:4985 (working pressure 6 kg/sqcm.) including all fittings such as bends, clamps, tees, cowls, clean out plugs, shoe etc including Fixing at wall / ceiling level supported by steel/PVC clamps & hangers etc. including Cutting, chases / holes in floors / walls / slab, connecting with chamber/Manhole and making good the same after pipe have been duly laid and testing complete in all respects:Pipe Dia 160 OD

P47	Providing, fixing and jointing UV stabil	25	M	306.56	7,664.00	
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Providing, fixing and jointing UV stabilised uPVC rain/waste water pipes conforming to IS:4985 (working pressure 6 kg/sqcm.) including all fittings such as bends, clamps, tees, cowls, clean out plugs, shoe etc including Fixing at wall / ceiling level supported by steel/PVC clamps & hangers etc. including Cutting, chases / holes in floors / walls / slab, connecting with chamber/Manhole and making good the same after pipe have been duly laid and testing complete in all respects:Pipe Dia 110 OD

P48	Providing and fixing to the inlet mouth	10	EA	40.89	408.90	
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Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.

P49	Supplying and erecting Monobloc Pump,1.5	2	EA	16,072.48	32,144.96	
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Supplying and erecting Monobloc Pump,1.5 HP, 1.1kW, Single Phase, 210 Volts, suction size 32mm delivery Size 25mm, head range 23.8-32M and Discharge range 1.3-2.9 LPS (Kirloskar Model No. KDS-1.540+ OR Equivalent as per approved make list)

P50	Supply , installation , testing and comm	2	EA	2,484.45	4,968.90	
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Supply , installation , testing and commissioning of starter for 1.5 HP monobloc pump , Single Phase, 210 Volts.

P51	Providing and fixing PVC floor trap/ Nah	15	EA	176.74	2,651.10	
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Providing and fixing PVC floor trap/ Nahani Trap/ P-trap/Multi Trap of Inlet 50mm/75mm/110mm and outlet 75mm/110mm or any other size as per requirement.

P52	Providing and fixing in position pre-cas	3	EA	1,036.50	3,109.50	
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Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved

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quality MD-10 Square shape 450 mm internal dimension

P53	Providing and fixing in position steel f	2	EA	3,228.49	6,456.98	
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Providing and fixing in position steel fibre reinforced concrete (S.F.R.C.) frame and covers of approved make including loading, unloading, transportation, all taxes, etc. complete as directed by Engineer-in-charge (Heavy duty 20 tonnes capacity). Clear opening size : 60 x 45 cm

P54	Providing and fixing in position steel f	5	EA	3,724.23	18,621.15	
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Providing and fixing in position steel fibre reinforced concrete (S.F.R.C.) frame and covers of approved make including loading, unloading, transportation, all taxes, etc. complete as directed by Engineer-in-charge (Heavy duty 20 tonnes capacity). Clear opening size : 60 x 60 cm

P55	Constructing brick masonry circular type	5	EA	9,512.48	47,562.40	
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Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat

of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished

with a floating coat of neat cement, all complete as per standard design : 0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

P56	Extra depth for circular type manhole	5	M	5,675.19	28,375.95	
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Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5

P57	Providing and fixing factory made precast	100	EA	1,046.52	104,652.00	
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Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineering-charge.

P58	Boring/drilling bore well of required di					
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Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, up to 90 metre depth below ground level.

P58.1	All types of soil. 300 mm dia	50	M	529.07	26,453.50	
P58.2	Rocky strata including Boulders 300 mm d	25	M	1,267.16	31,679.00	

Rocky strata including Boulders 300 mm dia

P59	Supplying, assembling, lowering and fixi	40	M	592.99	23,719.60	
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Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.150/160 mm nominal size dia

P60	Supplying, assembling, lowering and fixi	35	M	603.60	21,126.00	
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Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.150/160 mm nominal size dia

P61	Supplying, filling, spreading & levellin	3.000	M3	1,128.64	3,385.92	
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Supplying, filling, spreading & levelling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.

P62	Supplying, filling, spreading & levellin	3.000	M3	1,149.91	3,449.73	
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Supplying, filling, spreading & levelling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineering- charge

P63	Supplying, filling, spreading & levellin	3.000	M3	1,149.91	3,449.73	
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Supplying, filling, spreading & levelling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.

P64	Gravel packing in tube well construction	3.000	M3	1,513.40	4,540.20	
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Gravel packing in tube well construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineering-charge

P65	Getting Building permission/ Plan sancti	1	LS	179,504.52	179,504.52	
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Getting Building permission/ Plan sanction by KIADB/ other authorities for Building Construction works including liasoning, submission of drawings, inspection, clearance and getting any NOC's from Govt. bodies, etc. all complete.

This item also includes obtaining occupancy/building completion certificate from KIADB/ other authorities including liasoning, submission of as built drawings, inspection and clearance etc complete.

Statutory fees to be paid (if any) shall be paid/reimbursed by GAIL on submission of demand note and challan/ bill in proof of submission of fees.

(UOM: EA means completion of job)

75% payment shall be made after getting Building permission/ Plan sanction and balance 25% payment shall be made along with final bill after submission of occupancy/building completion certificate from the relevant authorities.

SH-17	SH-17:AC WORKS					
3270	HI - WALL SPLIT SYSTEMS					
Q1	Supply,installation,testing and commissi	5	EA	41,158.92	205,794.60	

Supply,installation,testing and commissioning of following BEE 5 Star rated (1.5 TON), Inverter Split AC with indoor & outdoor unit and all accessories as per specifications etc. as required including, required outdoor unit

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frame, core cutting for refringent piping and cable, PVC drain pipe, etc.

Q2	Supply,installation,testing and commissi	6	EA	49,755.44	298,532.64	
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Supply,installation,testing and commissioning of following BEE 5 Star rated (2 TON), Inverter Split AC with indoor & outdoor unit and all accessories as per specifications etc. as required including, required outdoor unit frame, core cutting for refringent piping and cable, PVC drain pipe, etc.

Q3	Supplying, fixing , jointing , testing c	13.500	M	746.97	10,084.10	
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Supplying, fixing , jointing , testing commissioning of additional required (in addition to supplied copper piping with the AC unit) Interconnecting refrigerant copper pipe work suitable for R-32/R- 410A refrigerant with (9mm thick) closed cell elastomeric nitrile rubber tubular insulation between each set of indoor &outdoor units as per specifications for Split AC System including all fixing & routing accessories and are in pair.

Q4	Supply, Installation, Testing & Commissi	20	M	773.71	15,474.20	
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Supply, Installation, Testing & Commissioning of the copper conductor, FRLS, PVC insulated, 1.1kv control cum Transmission wiring in existing surface/recessed steel/pvc conduits between indoor & outdoor units including supply of screened wires, supports, installation, saddles, ties, tags, ferrules, lugs, nuts/bolts/hardware etc. complete in all respects as per specifications and any other item required to make the system complete. 4Cx 6 Sqmm copper

Q5	Supply,installation,testing and commissi	11	EA	3,596.43	39,560.73	
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Supply,installation,testing and commissioning of following VOLATAGE STABLIZER (5KVA) working range 170V-270V all accessories as per specifications etc. as required

SH-18	SH-18:FIRE ALARM					
R1	Supplying, installation, testing and com					

Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5 % V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system which is part of the schedule of work under SH: PA System) and shall be complete with all accessories . The panel shall be compatible for IBMS system with open protocol Bacnet/ Modbus over IP complete as per specifications. Two Loop Panel.

R1.1	Two Loop Panel.	1	EA	188,411.05	188,411.05	
R2	Supplying, installation, testing & commi	16	EA	2,250.93	36,014.88	

Supplying, installation, testing & commissioning of intelligent analog addressable photothermal/Multicriteria detector complete with mounting base complete as required.

R3	Supplying, installation, testing & commi	16	EA	217.37	3,477.92	
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Supplying, installation, testing & commissioning response indicator on surface/recess MS box having two LEDs metallic cover complete with all connections etc. as required.

R4	Supplying, installation, testing & commi	2	EA	2,575.42	5,150.84	
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Supplying, installation, testing & commissioning of fault isolator complete with base as required.

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R5	Supplying, installation, testing & commi	2	EA	2,146.97	4,293.94	
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Supplying, installation, testing & commissioning of intelligent addressable thermal/ heat detector with rate of rise cum fixed temperature thermistor complete with base as required.

R6	Supplying, installation, testing & commi	1	EA	2,365.13	2,365.13	
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Supplying, installation, testing & commissioning of addressable fire control module complete as required.

R7	Supplying, installation, testing & commi	2	EA	3,048.76	6,097.52	
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Supplying, installation, testing & commissioning of addressable manual call point complete as required.

R8	Supplying, installation, testing & commi	2	EA	2,761.29	5,522.58	
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Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required.

R9	Supplying and installation of photo lumi	2	EA	3,981.36	7,962.72	
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Supplying and installation of photo luminescent safety signage made up of LED based exit signage with 90 min. battery backup as per NBC including arrangement for fixing on wall / ceiling etc. complete as required (single sided) (size 150 mm x 300 mm) Exit Sign and Internal Hydrant illuminated Sign, etc.

R10	Supplying and fixing of following sizes					
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Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.

R10.1	20 mm dia	50	M	175.63	8,781.50	
R10.2	25mm dia	250	M	201.62	50,405.00	
R10.3	32 mm dia	50	M	256.75	12,837.50	
R11	Supplying & laying of 2x1.5 sqmm fire al	500	M	136.25	68,125.00	

Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.

R12	Terrace Pump Supplying, installation, te					
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Terrace Pump

Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump)

Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical to IS : 1520

Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F'

M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required.

Suitable cement concrete foundation duly plastered and with anti vibration pads.

R12.1	900 lpm at 35 m Head	2	EA	80,223.06	160,446.12	
R13	Providing, laying, testing & commissioni					

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Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required

R13.1	100 mm	18	M	2,012.29	36,221.22	
R14	Supply, installation, testing & commissioning	18	M	698.95	12,581.10	

Supply, installation, testing & commissioning of one coat of 4 mm thick 'PYPKOTE' or coatek anti rust pipe protection including approved primer as per manufactures specifications and lap of 25 mm to make an impermeable layer on MS pipe in trenches or on structure /masonry complete including surface preparation.

R15	Supplying and fixing Single headed inter					
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Supplying and fixing Single headed internal hydrant valve With instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) With blank Gunmetal/Stainless Steel cap and chain as required ::

R15.1	Single headed Stainless steel	1	EA	4,835.01	4,835.01	
R16	Supplying, fixing, testing and commissioning					

Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :

R16.1	100mm	4	EA	5,250.86	21,003.44	
R17	Supplying and fixing orifice plate made	1	EA	1,040.41	1,040.41	

Supplying and fixing orifice plate made out Of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm² complete as required.

R18	Supplying and fixing 63 mm dia, 15 m long					
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Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required

R18.1	Stainless steel (Grade 304)	1	EA	3,503.20	3,503.20	
R19	Providing and fixing in position the ind	2	EA	941.96	1,883.92	

Providing and fixing in position the industrial type pressure gauges with gun metal/ brass valves complete as required

R20	Supplying and fixing first-aid Hose Reel					
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Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required.

20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585

20 mm nominal internal dia gun metal globe valve & nozzle.

Drum and brackets for fixing the equipments on wall.

Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket. (UOM : EA= SET)

R20.1	30m	1	EA	6,832.34	6,832.34	
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R21	Supplying & fixing 63 mm dia gun metal					

Supplying & fixing 63 mm dia gun metal short branch pipe With 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required:

R21.1	Stainless Steel (Grade 304)	1	EA	1,308.97	1,308.97	
R22	Supplying and fixing of fire brigade con					

Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required:

R22.1	2 way-100 mm dia M.S. Pipe	1	EA	5,309.93	5,309.93	
R23	Providing & fixing flow switch in follow					

Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required.

R23.1	100 mm dia	1	EA	5,917.95	5,917.95	
R24	Providing and fixing fire hose cabinet f					

Providing and fixing fire hose cabinet fabricated from 16 gauge M.S. Sheet with single or double glazed front door (with 4 mm thick glass) and locking arrangement, painted fire red with stove enamelled paint "FIRE HOSE" written on front including necessary supports approximate size.

R24.1	750x600X250 mm deep for EFH BOX (Fire ho	1	EA	5,120.67	5,120.67	
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750x600X250 mm deep for EFH BOX (Fire hose box)

R25	Providing and fixing resilient rubber ne					
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Providing and fixing resilient rubber neoprene lined single vibration elimination connection with unit control suitable for raw water up to 45 deg.C. temperature working pressure 20 kg/Sq.Cm.

R25.1	80 mm dia	2	EA	10,596.41	21,192.82	
R25.2	100 mm dia	2	EA	16,782.33	33,564.66	
R26	Supply, installation, testing and commis					

Supply, installation, testing and commissioning of following cables:

R26.1	2 Core 2.5 Sqmm, unarmoured ATC copper c	25	M	182.40	4,560.00	
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2 Core 2.5 Sqmm, unarmoured ATC copper conductor multistranded, cable.

R27	Supply and installation of portable CO2					
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Supply and installation of portable CO2 extinguishers including transporting to worksite, fixing in position including all accessories and all labour and material etc. complete as per directions of Engineer-in-Charge. Consisting of seamless MS cylindrical body and discharge valve, internal discharge tube, discharge nozzle ISI marked as per IS:15683 including fixing with dash fasteners etc. complete.

R27.1	Capacity 4.5 Kg.	6	EA	7,011.64	42,069.84	
R28	Portable Extinguishers Supply and instal					

Portable Extinguishers Supply and installation of portable DCP (sodium carbonate based Dry Chemical Powder

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Type) extinguisher as per IS:15683 including transporting to worksite, fixing in position including all accessories and all labour and material etc. complete directions of Engineer-in-Charge. Capacity 9 Kg

R28.1	Capacity 9.0 Kg.	6	EA	12,152.69	72,916.14	
SH-19	SH-19:ELECTRICAL,CCTV,BIS WORKS					
S	SUB-HEAD-I: CIRCUIT POINT WIRING					
S1	Wiring for light point/ fan point/exhaus					

Wiring for light point/ fan point/exhaust fan point/call bell point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc as required.

S1.1	Group-C (Primary point)	10	EA	1,155.39	11,553.90	
S2	Wiring for group controlled (looping) 1					

Wiring for group controlled (looping) light point /fan point / exhaust fan point/call bell point (without independent switch etc) with 1.5 sqmm FRLS PVC insulated copper conductor cable in surface/recessed PVC conduit and earthing the point with 1.5sqmm FRLS PVC insulated copper conductor single core cable etc.as required.

S2.1	Group-C (looping point)	74	EA	675.75	50,005.50	
S3	Wiring for twin control light point with	1	EA	1,230.21	1,230.21	

Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.

S4	Supplying and fixing following size/ mod					
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Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.

S4.1	1 or 2 Module (75mmX75mm)	46	EA	234.70	10,796.20	
S4.2	3 Module (100mmX75mm)	15	EA	257.54	3,863.10	
S4.3	4 Module (125mmX75mm)	10	EA	270.14	2,701.40	
S4.4	6 Module (200mmX75mm)	19	EA	316.61	6,015.59	
S4.5	8 Module (125mmX125mm)	10	EA	357.57	3,575.70	
S4.6	12 Module (200mm x 150mm)	2	EA	430.81	861.62	
S5	Supplying and fixing following Modular b					

Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.

S5.1	1 or 2 Module	46	EA	104.75	4,818.50	
S5.2	3 Module	15	EA	118.93	1,783.95	
S5.3	4 Module	10	EA	124.44	1,244.40	
S5.4	6 Module	19	EA	143.34	2,723.46	
S5.5	8 Module	10	EA	166.18	1,661.80	
S5.6	12 Module (200mm x 150mm)	2	EA	214.22	428.44	
S6	Supplying and fixing following modular s					

Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including

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connections but excluding modular plate etc. as required.

S6.1	5/6 A switch	24	EA	81.12	1,946.88	
S6.2	2 way 5/6 A switch	15	EA	116.56	1,748.40	
S6.3	15/16 A switch	43	EA	122.86	5,282.98	
S6.4	3 pin 5/6 A socket outlet	34	EA	96.09	3,267.06	
S6.5	6 pin 15/16 A socket outlet	24	EA	155.16	3,723.84	
S7	Supplying and fixing suitable size GI bo	7	EA	375.68	2,629.76	

Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.

S8	Supplying and fixing suitable size GI bo	5	EA	461.53	2,307.65	
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Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.

S9	Supplying & fixing suitable size GI box	10	EA	572.58	5,725.80	
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Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.

S10	supplying, installation, testing & commi	2	EA	4,589.16	9,178.32	
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supplying, installation, testing & commissioning of weather proof box made out of hot moulded SMC sheet of size 285mm x 210mm x 117mm complete with 4 Nos. electrolytic aluminium busbar of 63 Amps. with porcelain base and suitable din bar including supplying and fixing one No. 16 A SPMCB complete with connections & inter-connections etc. as required (SINTAX Make OR Equivalent as per approved vendor list).

S11	Wiring for circuit/ submain wiring along					
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Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.

S11.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wi	150	M	183.51	27,526.50	
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2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire

S11.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wi	460	M	216.59	99,631.40	
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2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire

S11.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	187	M	263.05	49,190.35	
S11.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	30	M	345.75	10,372.50	
S11.5	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	70	M	593.84	41,568.80	
S11.6	4 X 10 sq. mm + 2 X 6 sq. mm earth	30	M	791.53	23,745.90	

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S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
	wire					
4190	SUB-HEAD-II: CABLE TRAYS AND ACCESSORIES					
S12	Supplying and installing following size					

Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling/ wall with G.I. suspenders including G.I. bolts & nuts, etc. as required to be installed horizontally or vertically. The cable tray shall be complete including cost of bends, elbows, cross, tees, reducers, supporting arrangements etc as per drawings/site condition and as required.

S12.1	100 mm width X 50 mm depth X 1.6 mm thick	70	M	526.90	36,883.00	
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100 mm width X 50 mm depth X 1.6 mm thickness

S12.2	150 mm width X 50 mm depth X 1.6 mm thick	70	M	563.91	39,473.70	
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150 mm width X 50 mm depth X 1.6 mm thickness

S12.3	300 mm width X 50 mm depth X 1.6 mm thick	25	M	758.45	18,961.25	
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300 mm width X 50 mm depth X 1.6 mm thickness

4240	SUB-HEAD-III: DISTRIBUTION BOARDS					
S12A	Supplying and fixing following way, hori					

Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)

S12A.1	4 way (4 + 12), Double door	5	EA	3,222.03	16,110.15	
S12A.2	8 way (4 + 24), Double door	1	EA	4,699.55	4,699.55	
S13	Supplying and fixing following way, sing					

Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)

S13.1	16 way, Double door	1	EA	2,473.82	2,473.82	
S14	Supplying and fixing 5 amps to 32 amps r					

Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, #C# curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.

S14.1	Single pole	60	EA	201.62	12,097.20	
S14.2	Double pole	5	EA	516.66	2,583.30	
S14.3	Triple pole	17	EA	793.10	13,482.70	
S14.4	Triple pole and neutral	5	EA	967.16	4,835.80	
S15	Supplying and fixing following rating, f					

Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit

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breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.

S15.1	40 A	7	EA	2,510.83	17,575.81	
S15.2	63 A	7	EA	2,261.96	15,833.72	
S16	Supplying and fixing following rating, f					

Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.

S16.1	63 amps	5	EA	814.37	4,071.85	
S16.2	100 amps	1	EA	966.37	966.37	
S17	Supplying and fixing Single Pole Blankin	2	EA	10.24	20.48	

Supplying and fixing Single Pole Blanking Plate in the existing MCB DB complete Etc. as required.

S18	Supplying and fixing 20 A, 240 V, SPN In	10	EA	1,276.68	12,766.80	
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Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.

S19	Supplying and fixing 20 A, 415 V, TPN In	1	EA	2,039.86	2,039.86	
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Supplying and fixing 20 A, 415 V, TPN Industrial type socket outlet, with 4 pole and earth, metal enclosed plug top along with 20 A "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.

4440	SUB-HEAD-IV: EARTHING INSTALLATION					
S20	Earthing with G.I. earth plate 600 mm X	2	SET	5,884.87	11,769.74	

Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe 2.7 metre long etc. with charcoal/ coke and salt as required.

S21	Earthing with copper earth plate 600 mm	2	SET	10,898.66	21,797.32	
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Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. With charcoal/ coke and salt as required.

S22	Providing and laying earth connection fr	60	M	226.04	13,562.40	
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Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.

S23	Providing and fixing 25 mm X 5 mm copper	32	M	915.18	29,285.76	
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Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.

S24	Providing and fixing earth bus of 50 mm	32	M	1,664.18	53,253.76	
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Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.

S25	Providing and fixing 25 mm X 5 mm G.I. s	32	M	192.17	6,149.44	
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Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.

S26	Providing and fixing 6 SWG dia G.I. wire	32	M	33.08	1,058.56	
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Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/submain wiring/ cable as required.

S27	Providing and fixing 4.00 mm dia copper	50	M	122.08	6,104.00	
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Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.

4530	SUB-HEAD-V: MAIN PANEL AND DG, UPS					
S28	MAIN PANEL BOARD Fabrication, Transporta	1	EA	296,632.29	296,632.29	

MAIN PANEL BOARD

Fabrication, Transportation & Supply, Installation, Testing & Commissioning of Wall mounting type /Free standing type (depending upon the site condition) Distribution power Panel made of CRCA 14/16 SWG Sheet steel Powder coated (RAL7032) enclosure with provision for mounting as per site condition either in wall or in Cable Trench with MS angle frame work and with adequate size of Aluminium Bars of all three phases & neutral of same size with necessary connections & Interconnections with copper bars/wires and cable termination with open end connectors of adequate numbers & rating and with earth bar & earthing provision on top & Bottom and adequate space for Cable Termination for all out going feeders , provision also to be made for removable gland plates to facilitate easy cable termination

"150 Amps 36 KA TP MCCB with Neutral Link and with spreader & phase barriers - 1 no.

1 Nos. 150Amps ATS / Change Over Switch. - 1 Nos

Meeting:

Digital Ammeter with ASS 1 No

Digital Voltmeter with VSS 1 no

200/5 A CT Coils : 3 Nos

RYB Indication LED Lamp with switches & Control MCBs 1 Set

Outgoing Feeder:

100Amps TP MCCB 25 KA with Neutral link with spreaders & Phase barriers 1 Nos. Parties to submit detailed drawing of the Panel as per site condition before commencement of fabrication."

63 Amps TP MCCB 25 KA with Neutral link with spreaders & Phase barriers 8 Nos. Parties to submit detailed drawing of the Panel as per site condition before commencement of fabrication."

S29	Supply, installation, testing and commis	1	EA	205,133.10	205,133.10	
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Supply, installation, testing and commissioning of Supply of UPS. Each UPS of 10.0 KVA should have following specifications in addition to tender requirements : True online double conversions, IGBT Rectifier & inverter based UPS. Three phases Input/ three phase output with SMF batteries Suitable for 30 Min backup on Full load at 0.8 Load P.f. Input voltage range 340-478V at 100% load, 220-478 V @ 50% load. Input power factor 0.99, input THDi less than 5%. Output THD is less than 3% for linear load. Less than 5 % for nonlinear load. Crest factor 3:1, over load 125% for 10 min, 150% for 1 min and should be able to operate continuously at 115% load on bypass mode. Battery Flexible design as per detailed specifications. Inbuilt Input Isolation Transformer, parallel communication port, RS232, USB, EPO and SNMP interface, BMS interface, Dust Filter at Air Inlet point are required. UPS should be provided with environment monitoring probe to measure temperature and humidity of UPS room. LCD Display indicating all important parameters. SNMP

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software should be compatible to Microsoft windows XP, Windows Vista, Window 8 and higher, Window server 2003 R2, UPS software should be compatible to google chrome, Mozilla fire fox and Microsoft internet explorer. Battery open rack, battery interlinks battery breaker, battery to UPS cable as required should be provided with UPS systems.

4560	SUB-HEAD-VI: LIGHTS ITEMS					
S30	The rates of following Electrical items					

The rates of following Electrical items shall include all following described components that may be required to make the installation complete in all respects at all locations such as : 1. Suitable length connecting wires where called for. 2. Internal wiring between accessories. 3. Bonding with earth wires. Drilling holes in supports wherever require. Lighting fixtures shall be hanged from ceiling with GI chains/required accessories, PVC adopter at fittings end shall be provided. Connections should be done with end ferrules, cutting hole in false ceiling/gypsum board with frame as required.

S30.1	Supply, fixing, testing and commissionin	41	EA	5,395.76	221,226.16	
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Supply, fixing, testing and commissioning of 35W/36W 2X2 Feet RECESS MOUNTED LED LIGHT (Correlated Colour Temperature (Nom) 6500 K, THD < 10%, PF >= 0.9 all accessories as required. (Philips Model no: RC380B LED42S-6500 G6 L60W60 PSU OD S1. OR Equivalent as per approved vendor list)

S30.2	Supply ,fixing , testing and commissioni	10	EA	696.71	6,967.10	
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Supply ,fixing , testing and commissioning (SITC) of 20 W LED CEILING/ WALL MOUNTED TUBE LIGHT with all accessories as required. (2 feet). Colour Temperature - 6500K, 100lm/W equivalent to Philips Star Bright Decorative Modern . (Philips Product SKU : 919615898137 OR Equivalent as per approved vendor list)

S30.3	SITC of 40 W LED CEILING/ WALL MOUNTED T	30	EA	761.75	22,852.50	
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SITC of 40 W LED CEILING/ WALL MOUNTED TUBE LIGHT with all accessories as required. (4 feet). Colour Temperature - 6500K, 100lm/W . Philips Star Bright Decorative Modern Product SKU : 919615898138 OR Equivalent as per approved vendor list

S30.4	SITC LED bulk head fitting 10 watt IP 65	5	EA	524.77	2,623.85	
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SITC LED bulk head fitting 10 watt IP 65 & IK 08 with pressure die cast aluminium housing & polycarbonate diffuser duly pre wired connection with 0.75 Sqmm PVC insulated & sheathed three core flexible multi stranded copper conductor cable.

S30.5	SITC of Exhaust Fan 300 mm Sweep area	6	EA	2,785.77	16,714.62	
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SITC of Exhaust Fan 300 mm Sweep area [240V , 1200-1500 RPM , 3 BLADES] with Lovers

S30.6	SITC of 9W/10W LED Panel light/ Down lig	21	EA	1,413.60	29,685.60	
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SITC of 9W/10W LED Panel light/ Down light recessed with all accessories as required. Colour Temperature - 6500K, PF > 0.9. Philips DN295B LED10S-6500 PSE WH S2 OR Equivalent as per approved vendor list

S30.7	SITC of 1200 mm sweep, BBEE 5 star rated	5	EA	2,150.12	10,750.60	
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SITC of 1200 mm sweep, BBEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class

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of insulation: B, 3 nos. blades, 45 cm long down rod, 2nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise= 75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.

S30.8	SITC of wall mounted Fan [240V , 1200-1	10	EA	2,476.24	24,762.40	
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SITC of wall mounted Fan [240V , 1200-1500 RPM , 400 MM , 3 BLADES] with 5/6A switch & socket

S30.9	SITC of 50 W LED cool white Flood Lights	4	EA	7,374.36	29,497.44	
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SITC of 50 W LED cool white Flood Lights IP65, 100 lm/W.

S30.10	SITC of IP65 dust-proof and water-resist	4	EA	2,966.25	11,865.00	
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SITC of IP65 dust-proof and water-resistant outdoor post top (gate light) .Philips 12NC Product SKU : 919215851260 OR Equivalent as per approved vendor list

S30.11	Supply, erection, testing and commission	8	EA	12,995.03	103,960.24	
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Supply, erection, testing and commissioning of 6 M high Tubular pole with suitable base plate and with following components :-

Including supply and installation of 6 ways-20A connector & 6A MCB mounted on 6mm thick painted M.S/GI plate, insulated, and fixed inside the pole suitable for termination of armoured aluminium cable as required and wiring to Luminaries from the 6A MCB, with 3x2.5 sq.mm. PVC insulated copper, stranded conductor (P+ N+ PE) double sheathed wire including terminations. 6 meters high tubular pole with single arm of length approx. 1.5 meter. (Civil works shall be paid separately.)

S30.12	Supply, Receiving and fixing in position	8	EA	4,873.13	38,985.04	
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Supply, Receiving and fixing in position, effecting proper connections, testing and commissioning of 70W Luminaire on existing 6 Mtr pole as per specifications, complete in all respects including nipple for fixing of Light fixture on pole.

S30.13	High density poly ethylene pipes 32mm (	160	M	77.74	12,438.40	
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High density poly ethylene pipes 32mm (HDPE) of pressure rating 6 kgf/cm2 laid in trenches

S30.14	S&F ceiling rose 3 terminal polycarbonat	17	EA	51.58	876.86	
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S&F ceiling rose 3 terminal polycarbonate body complete all as specified and directed.

S30.15	CONFERENCE TABLE CONNECTIVITY SOLUTION P	1	EA	3,532.14	3,532.14	
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CONFERENCE TABLE CONNECTIVITY SOLUTION POP UP BOX#

4730	SUB-HEAD-VII: CABLE END TERMINATION					
S31	Supplying and making end termination wit					

Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor armoured cable of 1.1 KV

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S31.1	2 X 16 sq. mm (22mm)	16	EA	201.62	3,225.92	
S31.2	3½ X 25 sq. mm (28mm)	4	EA	246.52	986.08	
S31.3	3½ X 50 sq. mm (35mm)	4	EA	325.27	1,301.08	
S31.4	3½ X 120 sq. mm (45mm)	4	EA	482.79	1,931.16	
S31.5	4 X 10 sq. mm (25mm)	4	EA	211.86	847.44	
S31.6	4 X 16 sq. mm (28mm)	4	EA	243.37	973.48	
S32	Supply, laying testing and commissioning					

Supply, laying testing and commissioning of following sizes of XLPE insulated, PVC sheathed, armoured Aluminium conductor cable of 1.1 KV grade on existing cable tray / surface including clamps, ties etc. as required

S32.1	3.5 core 25 sqmm XLPE CABLE (AL)	20	M	301.26	6,025.20	
S32.2	2 core 16 sqmm XLPE CABLE (AL)	170	M	153.25	26,052.50	
S32.3	3.5 core 50 sqmm XLPE CABLE (AL)	50	M	324.88	16,244.00	
S32.4	3.5 core 120 sqmm XLPE CABLE (AL)	70	M	879.89	61,592.30	
S32.5	4 core 10 sqmm - XLPE CABLE (AL)	50	M	172.08	8,604.00	
S32.6	4 core 16 sqmm - XLPE CABLE (AL)	50	M	192.72	9,636.00	
S33	Extra for laying of one number PVC insul					

Extra for laying of one number PVC insulated and PVC sheathed / XLPE armoured Aluminium conductor power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering (brick etc.) and refilling the trench etc as required and directed by EIC.

S33.1	Up to 35 sq. mm	50	M	304.80	15,240.00	
S33.2	Above 35 sq. mm and up to 95 sq. mm	50	M	318.97	15,948.50	
S33.3	Above 95 sq. mm and up to 185 sq. mm	50	M	332.36	16,618.00	
4920	SUB-HEAD-VIII: CONDUIT,CCTV BIS ETC.					
S34	Supplying and fixing of following sizes					

Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.

S34.1	20mm	150	M	100.81	15,121.50	
S34.2	25mm	220.500	M	114.20	25,181.10	
S34.3	32mm	30	M	144.92	4,347.60	
S35	Supplying and fixing following modular s					

Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections, termination, crimping with cable.

S35.1	RJ-11 telephone socket two line with sh	17	EA	116.56	1,981.52	
S35.2	T.V. CO-axial cable socket outlets of on	1	EA	116.56	116.56	

T.V. CO-axial cable socket outlets of one point

S36	RJ 45 female jack / Sockets for Data / V	45	EA	446.71	20,101.95	
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RJ 45 female jack / Sockets for Data / Voice outlet

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S37	Supplying and drawing following pair 0.5					
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Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required.

S37.1	2 pair Telephone cable	60	M	29.93	1,795.80	
S37.2	4 pair	90	M	42.53	3,827.70	
S38	Supplying and drawing co-axial TV cable	20	M	37.02	740.40	

Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.

S39	Supplying and drawing of UTP 4 pair CAT	450	M	51.58	23,211.00	
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Supplying and drawing of UTP 4 pair CAT 6 LAN, 23 AWG ARMOURED Cable in the existing surface/ recessed Steel/ PVC conduit as required.

S40	Termination, crimping and integration ch	45	EA	422.36	19,006.20	
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Termination, crimping and integration charges for CAT 6 LAN cable along with supply, fixing of RJ 45 modular plugs/ connector, and testing, and documentation of all works. (1EA= one end of cable)

S41	SITC of Double port Face Plate : Polycar	21	EA	101.88	2,139.48	
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SITC of Double port Face Plate : Polycarbonate Hi-Grade Plastic FR Grade & UV Resistant 850 degree C/ Glow Wire Test. The face plate should be compatible for Cat5e, Cat6 range of RJ45 and AV connectors. The face plate Size should be of minimum 86x86mm.

S42	SITC of Quard port Face Plate : Polycarb	10	EA	115.78	1,157.80	
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SITC of Quard port Face Plate : Polycarbonate Hi-Grade Plastic FR Grade & UV Resistant 850 degree C/ Glow Wire Test. The face plate should be compatible for Cat5e, Cat6 range of RJ45 and AV connectors. The face plate Size should be of minimum 86x86mm

S43	Supply, Installation, testing and commis	42	EA	290.83	12,214.86	
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Supply, Installation, testing and commissioning of CAT6 UTP 23 AWG Patch Cord - 1 mtr with cross separator , Manufactured from stranded wires for longer flex-life, WITH RJ45 MODULAR PLUGS/ connector CONNECTED AT BOTH THE ENDS

S44	Supply, Installation, testing and commis	5	EA	301.02	1,505.10	
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Supply, Installation, testing and commissioning of CAT6 UTP 23 AWG Patch Cord - 2 mtr with cross separator , Manufactured from stranded wires for longer flex-life, WITH RJ45 MODULAR PLUGS/ connector CONNECTED AT BOTH THE ENDS

S45	Supply, installation, testing and commis	4	EA	10,893.94	43,575.76	
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Supply, installation, testing and commissioning of FIXED CAMERA## HIGH RESOLUTION, IP## FIXED BULLET CAMERA.

With following documents:

1. MTCTE certificate
- 2) STQC compliance certificate

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3) Surge Voltage -6000 V Surge Protection, lightning protection

S46	Supply, installation, testing and commis	6	EA	6,880.38	41,282.28	
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Supply, installation, testing and commissioning of CCTV 1080P IP IR Dome Camera, ONVIF Profile S, PoE, 12VDC, 20m IR distance, IP66.

With following documents:

1. MTCTE certificate
- 2) STQC compliance certificate
- 3) Surge Voltage -6000 V Surge Protection, lightning protection

S47	Supply, installation, testing and commis	1	EA	91,738.40	91,738.40	
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Supply, installation, testing and commissioning of CCTV PTZ DOME CAMERA# 27X OPTICAL ZOOM# 12XDIGITAL ZOOM,1/4 INCH SUPER HAD# HIGH RESOLUTION #.

With following documents:

1. MTCTE certificate
- 2) STQC compliance certificate
- 3) Surge Voltage -6000 V Surge Protection, lightning protection

S48	Supply, installation, testing and commis	2	EA	42,429.01	84,858.02	
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Supply, installation, testing and commissioning of LAYER-2 24 Port SWITCH FOR CCTV & Telephone with MTCTE CERTIFICATE

S49	Supply, installation, testing and commis	2	EA	2,414.54	4,829.08	
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Supply, installation, testing and commissioning of Patch/Jack Panel 24 port loaded with 24 no. I/O jacks patch panel

S50	Supply, installation, testing and commis	1	EA	51,602.85	51,602.85	
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Supply, installation, testing and commissioning of SERVER RACK 19 INCH ,42 U RACK,FLOOR STANDING## ALONG WOTH COOLING FANS## CABLE MANAGEMENT ACCESSORIES ETC##

S51	Supply, installation, testing and commis	1	EA	4,586.92	4,586.92	
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Supply, installation, testing and commissioning of NINE(9)U NETWORK RACK WITH POWER DISTRIBUTION UNIT (DIMENSIONS:480X600X440 MM[+ /-2MM],RACK STANDARD : CONFORMS TO DIN 41494 OR EQUIVALENT STANDARD, CONSTRUCTION : WELDED FRONT DOOR : LOCKABLE TOUGHENED GLASS DOOR BASIC FRAME : STEEL, EQUIPMENT MOUNTING : DIN STANDARD, SLOTSMOUNTING ANGLE : 19# MOUNTING ANGLES , STANDARD FINISH : POWDER COATED TOP AND BOTTOM COVER : WELDED TO FRAME, VENTED AND FIELD CABLE ENTRY EXIT CUT OUTS , LOAD BEARING CAPACITY : 50 KGS)

S52	Supply, installation, testing and commis	1	EA	258,675.83	258,675.83	
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Supply, installation, testing and commissioning of Network Video record server for CCTV

S53	Supply, installation, testing and commis	1	EA	81,153.20	81,153.20	
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Supply, installation, testing and commissioning of Video Management Software. The supplied software#s must have minimum 10 years of license period validity from date of acceptance of the system. All the licenses shall be in the name of GAIL INDIA LIMITED.

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S54	Supply, installation, testing and commis	1	EA	146,781.44	146,781.44	

Supply, installation, testing and commissioning of CCTV Client workstation with viewing monitor (65 Inch LED), software, license, Joystick/keyboards etc

S55	Supply, installation, testing and commis	4	EA	28,527.11	114,108.44	
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Supply, installation, testing and commissioning of 10TB HDD storage compatible with supplied Video record server for CCTV.

SH-20	SH-20: FURNITURE					
T	Note : 1. The dimensions of the furnitur					
T1	Main Table Dimension (L)2100mm X (D) 900	1	EA	90,443.08	90,443.08	

Main Table Dimension (L)2100mm X (D) 900mm X (H)750mm

Side Runer Dimension (L)1200mm X (D) 450mm X (H) 750mm

Supplying, and placing in position of main Table as per Image/ drawing. The Table top made out of 32mm thk prelam particle board with 2mm thk pvc edge banding & side panel & modesty panel made up of 25mm thick pre-laminated particle board .The working edges shall be provided with machine pressed 2mm thick PVC edging using special hot melt glue at hot temperature. Provision of 3 drawer mobile pedestal (size:- L-400mm x D-450mm x H-600mm) attached to the table top. Pedestal Unit have a combination of 2 drawer & one filing drawer. The pedestal storage unit shall be made of 18 mm thick prelaminated Particle board with provision of handles & central Locking arrangement. The table have a provision of free standing Side Storage of size 1200mm L x 450mm D x 750mm Ht., Storage Top made out of 18mm thick pre laminated particle board and rest all storage to be made out of 18 mm thick prelaminated particle board . All exposed edges shall be provided with machine pressed 2 mm thick PVC lipping glued with hot melt EVA glue. Storage having a provision of 3 drawer unit, one openable shutter with D shape handle & central locking arrangement, one open storage with shelf in it . The product should be as per above given specification under the guidance of project architect & Engineer in charge.

T2	Main Table Dimension : 1500mm(L) X 600mm	6	EA	48,451.65	290,709.90	
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Main Table Dimension : 1500mm(L) X 600mm(D) X 750mm(H)

Side Runer Dimension : 900mm(L) X 450mm(D) x 750mm(H)

Supplying, and placing in position of main Table as per drawing/image. Modular tables of size 1500mm(L) x 600mm(D) x 750mm(H). The Table top are made out of 25mm thk prelam particle board with 2mm thk pvc edge banding & side panel & modesty panel are made up of 18mm thick pre-laminated particle board .The working edges shall be provided with machine pressed 2mm thick PVC edging using special hot melt glue at hot temperature. The table have a provision of Side Storage of size 900mm L x 450mm D x 750mm Ht., Storage Top are made out of 25mm thick pre laminated particle board and rest all storage to be made out of 18 mm thick prelaminated particle board . All exposed edges shall be provided with machine pressed 2 mm thick PVC lipping glued with hot melt EVA glue. Side Storage having a provision of 3 drawer unit of size: 400mm(L) x 450mm(D) x 675mm(H) attached to the side storage top with the help of shiny metal rods. Pedestal Unit have a combination of 2 drawer & one filing drawer. The pedestal storage unit shall be made of 18 mm thick prelaminated Particle board with provision of central Locking arrangement. The product should be as per above given specification under the guidance of project architect & Engineer in charge.

T3	Dimension (L) 2350mm X (D) 450mm X (H) 7	1	EA	32,993.26	32,993.26	
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Dimension (L) 2350mm X (D) 450mm X (H) 750mm

Supplying, and placing in position of medium height storage @750mm height as per photograph/drawing . The storage unit having Openable shutters with shelf in it. The modular storage unit top shall be made from 18 mm

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thick pre-laminated particle board and rest of the sides as well as shelves and shutter to be made up of 18 mm thick pre-laminated particle board while back to be made of 8 mm thick pre-laminated particle board. All edges to be provided with 2 mm thick PVC lipping. The storage unit having openable shutters with D shape handles & locking arrangement. The product should be as per above given specification under the guidance of project architect & Engineer in charge.

T4	Supplying and placing in position of 360	7	EA	11,536.11	80,752.77	
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Supplying and placing in position of 360 degrees revolving high back chair as per photograph. The breathable mesh back chair with cushioned fabric seat shall be ergonomically design with adjustable lumbar back support . The chair shall be provisioned with adjustable armrest (Up-Down) with PP padding and Adjustable Headrest(Can Adjust Movement). The chair shall be provided with self tension single locking mechanism and pneumatic height adjustment which shall have stroke of 10.0 +/- 0.3 cm .The black Five star chrome base with hooded nylon castors. The pneumatic height adjustment shall have adjustment stroke of 100 mm and shall be operated at 30kgs extension force. The Seat & back are made up of 12mm thk hot pressed plywood upholstered with PVC with polyurethane foam, chair seat has foam of density 32-35 kg/m3 with mesh fabric over it. The product should be as per above given specification under the guidance of project architect & Engineer in charge.

T5	Supplying and placing in position of 360	18	EA	6,921.71	124,590.78	
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Supplying and placing in position of 360 degrees revolving medium back chair as per photograph. The breathable mesh back chair with cushioned fabric seat shall be ergonomically design with adjustable lumbar back support . The chair shall be provisioned with adjustable armrest (Up-Down) with PP padding. The chair shall be provided with self tension single locking mechanism and pneumatic height adjustment which shall have stroke of 10.0 +/- 0.3 cm .The black Five star chrome base with hooded nylon castors. The pneumatic height adjustment shall have adjustment stroke of 100 mm and shall be operated at 30kgs extension force. The Seat are made up of 12mm thk hot pressed plywood upholstered with PVC with polyurethane foam, chair seat has foam of density 32-35 kg/m3 with mesh fabric over it.

T6	2 seater Sofa Dimension (L)1410mm X (D)8	2	EA	40,299.50	80,599.00	
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2 seater Sofa Dimension (L)1410mm X (D)890mm X (H)870mm

Supplying, and placing in position of sofa as per photograph having classic Contemporary design and slender curves. The Sofa of stands Firm on solid PVC legs with thick armrests that are slightly curved on the front face of the sofa.

Finishing: Leather

The seat cushion is made of multi layered foam of density 32-35kg/m3.

The seating cushion have 2.75 & 1.75 inches of elastic webbing.

The thread used is nylon bonded to provide lasting stitch strength.

The backrest has a foam of 28kg/m3 with polyester polyfill outer layer of 200 gsm.

The product should be as per above given specification under the guidance of project architect & Engineer in charge.

T7	Dimension (W)680mm X (D)530mm X (H)450mm	2	EA	18,457.72	36,915.44	
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Dimension (W)680mm X (D)530mm X (H)450mm

Supplying, and placing in position of side table as per photograph/drawing. The side table made of solid wood (steam beech) in pu matt polish. The plain glass placed the top of the table in 8mm thk. The glass table top is made with strong glass and is inlaid onto the solid wood frame. The designer wooden legs are turned for a sleeker look. The framed edges slope inwards to the table top with defined edges. Material & Subtype: Solid Wood - Beech Wood (spc:steam beach), Colour & Colour Family:Brown - Dark Oak, Legs:Solid Wood,

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Finish:Glossy, Style:Contemporary.

T8	Dimension:(L)1130mm X (W)630mm X (H)410m	2	EA	23,687.50	47,375.00	
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Dimension:(L)1130mm X (W)630mm X (H)410mm

Supplying and placing in position of centre table as per photograph/drawing. The centre table made of solid wood (steam beech) in pu matt polish.The plain glass placed the top of the table in 8mm thk. The turned wooden legs are sleek and sturdy providing the table with its support. The wood work below the glass provides the glass with a focal point and some support. Add volumes of style to yourliving room with the centre table. Material & subtype: Solid Wood -Beech Wood(spc:steam beach), Colour & Colour Family:Brown - Dark Oak,Shape:Rectangular Legs/Base:Solid Wood, Finish:Glossy,Style:Contemporary.

T9	Supplying and Placing in Position confer	1	EA	112,343.78	112,343.78	
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Supplying and Placing in Position conference room table as per photograph/drawing of size 3600 X 1500 X 740 (LxWxH) in diamond shape with Work top made of 25mm thick MDF one side pre laminate board conforming to IS14587: 1998 with 0.4mm PVC membrane pressed on to top and having chamfered edge. Access panels provided with soft closing hinges.

The Under-structure consists of mixture of 25mm and 18mm Pre-laminated twin board of E1-P2 grade and approved shade conforming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping. The product should be of a knock-down construction.

Wire Management Bottom cabinet with door is provided for flow of wires and cables. Cut-out provision below Access flap at four locations for standard 8 module Anchor Roma or equivalent is provided. Beside each cut-out, an additional cut-out with plate is provided for mounting Audio Visual Cables (e.g. HDMI,VGA-A, etc).

T10	Dimension : 1200mm(L) X 600mm(d) x 1200m	4	EA	41,818.32	167,273.28	
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Dimension : 1200mm(L) X 600mm(d) x 1200mm(h)

Supplying & Placing in Position as per photograph/drawing , of sliding Tile base modular workstation with Free standing Partition Height 1200mm and should be minimum of 50-67mm thick. Partition inner frame is 1.1-1.5mm thick combinations of Aluminium/CRCA Steel Powder Coated sections. Horizontal and Vertical trims are made out of extruded aluminium of 1.0-1.5mm thick. All Frame/Trims shall be powder coated with 50mm micron. Aluminium trims are elegantly fixed with hidden connectors on the partition. The frame work shall be fitted with 9mm thick pre laminated particle board tiles of approved shade. Partition shall have provisions for pinup boards with Fabric/white marker/pre laminate of approved shade. Partition frame work shall have adequate provisions for the movement of electric data cables at desired 2 levels: one at skirting and another above/below the table top. The Table top for workstations made up of 25mm thick pre laminated particle board of approved shad. All working or non working edges shall be provided with machine pressed 2mm thick PVC edging using special hot melt glue at hot temperature The Worktop shall be supported on 2mm thick powder coated CRCA steel brackets and by side gable ends. Side Gable ends shall be made of 25mm thick Pre laminated Particle Board of approved shade. One Magnetic Pinup shall provided for each user. Accessories for Each Workstation shall be One No.of Key Board Tray, One Metallic CPU Trolley & One 3 Drawer Pre laminated Mobile Pedestal (390mmW x 450mm D x 640mm H) with a combination of 2 drawer & one filing drawer shall be Provided for each user. The pedestal storage unit shall be made of 18 mm thick pre laminated Particle board with provision of handles & central Locking arrangement.Separator Panel shall be provided as separator between two workstations. All complete with required fittings, fixtures, accessories as required etc.

Vendor Code: 108045434
KVR CONSTRUCTION
HEIGHTS PVT LTD

LOA No. : GAIL/BLR25/69/5300047413/134411/CIVIL
LOA Date : 08.04.2026

Item : 1 - CONSTRUCTION OF OFFICE BUILDING AND MISC
Plant : 3170 - NG Trans(DBPL)-Bengaluru- Karnataka (KAR)

S.No.	Short Description	Qty.	UOM	Rate	Amount	AHR *
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The product should be same as per the specification as above & ref image under the guidance of project architect and Engineer in charge.

Work Order Item 00001 Basic Item Value : INR 23,037,015.27
(RUPEE TWENTY-THREE MILLION THIRTY-SEVEN THOUSAND FIFTEEN AND PAISE TWENTY-SEVEN ONLY)
Item Specific Conditions :
Total Tax = 4,146,662.74
18 % GST (SGST 9 % + CGST 9 %)- Cenvatable-(SX)
Total item value including taxes & duties : INR 27,183,678.01

Total estimated contract value excluding all tax and duties : 23,037,015.27
(RUPEES TWO CRORE THIRTY LAC THIRTY-SEVEN THOUSAND FIFTEEN & PAISE TWENTY-SEVEN ONLY)

Total estimated contract value including all tax and duties : 27,183,678.01
(RUPEES TWO CRORE SEVENTY-ONE LAC EIGHTY-THREE THOUSAND SIX HUNDRED SEVENTY-EIGHT & PAISE ONE ONLY)

*Service items marked YY under AHR column are AHR items. Any service item marked #Y or Y# confirmation is required from authorized dealing officer who shall be final authority regarding AHR declaration. However, service items marked #Y or Y# shall be treated as AHR unless confirmed Non-AHR by dealing officer.

Signature Not Verified

Digitally signed by Bishar Bin Ali
Date: 2026.04.29 12:32:28 IST
Location: eProcurement System for Central PSUs