



न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
NUCLEAR POWER CORPORATION OF INDIA LIMITED
(A Govt. of India Enterprise)
(CIN : U40104MH1987GOI149458)



संविदा एवं सामग्री प्रबंधन निदेशालय
नाभिकीय ऊर्जा भवन,
ए-'O' ब्लॉक, तलमाला,
अणुशक्तिनगर, मुंबई - 400 094.
दुरभाष: 2599 3000 / 2599 1000
फैक्स: 91-22-2558 0741



DIRECTORATE OF CONTRACTS & MATERIALS MANAGEMENT

Nabhikiya Urja Bhavan,
A-'O' Block, Ground Floor,
Anushaktinagar, Mumbai - 400 094.
Tel.: 2599 3000 / 2599 1000
Fax : 91-22-25580741

संदर्भ Ref.: CMM/MEQ/25-24-2-1188

दिनांक Date : 9 MAY 2025

M/s. Powerica Limited,
Bakhtawar, 9th Floor,
Nariman Point,
Mumbai - 400 021.
E-mail: sanjay.kulkarni@powericaltd.com

विषय Sub.: क्रय आदेश क्र. / PO No. CMM/MEQ/25-24-2-1188/e-PO/0045 (Supply) Dtd. 09.05.2025

महोदय Dear Sir,

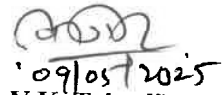
इस पत्र के साथ क्रय आदेश क्र. / Please find attached herewith Purchase Order No: CMM/MEQ/25-24-2-1188/e-PO/0045 (Supply) Dtd. 09.05.2025 संलग्न है।

कृपया प्राप्ति की रसीद दें।

Kindly acknowledge receipt.

यह पत्र विषयांतर्गत क्रय आदेश के संबंध में हमारे अधिकारों के प्रति पूर्वाग्रह के बिना जारी किया गया है।
This is however issued without prejudice to our rights under the subject Contract.

धन्यवाद Thanking you.


(वि. के. त्रिवेदी V.K. Trivedi)
सह निदेशक AD (सीएंडएमएम C&MM)

संलग्न Enclosed: उपरोक्तानुसार as above

पंजीकृत कार्यालय: 16 वी मंजिल, सेंटर-1, वर्ल्ड ट्रेड सेंटर, कफ परेड, कुलाबा, मुंबई - 400 005
Regd. Office : 16th Floor, Center-1, World Trade Centre, Cuffe Parade, Colaba, Mumbai - 400 005
Visit us at : www.npcil.nic.in



न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Nuclear Power Corporation of India Limited

न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

NUCLEAR POWER CORPORATION OF INDIA LIMITED

(A Govt. of India Enterprise)

(CIN : U40104MH1987GOI149458)



संविदा एवं सामग्री प्रबंधन निदेशालय
नाभिकीय ऊर्जा भवन,
ए-'O' ब्लॉक, तलमाला,
अणुशक्तिनगर, मुंबई - 400 094.
दुरभाष: 2599 3000 / 2599 1000
फैक्स: 91-22-2558 0741



ISO 9001:2015 Certified

DIRECTORATE OF CONTRACTS & MATERIALS MANAGEMENT

Nabhikiya Urja Bhavan,
A-'O' Block, Ground Floor,
Anushaktinagar, Mumbai - 400 094.
Tel.: 2599 3000 / 2599 1000
Fax : 91-22-25580741

PURCHASE ORDER No.: CMM/MEQ/25-24-2-1188/e-PO/0045

Date **9 MAY 2025**

To,

M/s. Powerica Limited,
Bakhtawar, 9th Floor,
Nariman Point,
Mumbai - 400 021.

E-mail: sanjay.kulkarni@powericaltd.com

Dear Sirs,

Your offer contained in the Tender No. CMM/MEQ/25-24-2-1188 to supply the under-mentioned Stores is accepted for and on behalf of Nuclear Power Corporation of India Ltd., subject to the General Conditions of Contract for Engineering, Procurement and Construction Contracts, detailed in the Form No. GCC/EPC-4/Rev.4 entitled "General Conditions of Contract for Engineering, Procurement and Construction Contracts" applicable to the contracts for indigenous stores placed by the Nuclear Power Corporation of India Ltd., (A Government of India Enterprise) and subject to the terms and conditions contained in the Purchase Order, to the extent of the quantity and at the price specified below:

Project : KKNPP-3&4	
IAEA Code No.: 242.1	
MSE Details	
Status	NA
Type	NA
Category	NA

Sl.No.	Description	Quantity	Unit	Rate	Value
1.0	Design, Engineering, Procurement, Fabrication/ Manufacture, Documentation, Quality Assurance, Testing including Seismic Qualification Testing, Training at works, Packing & Forwarding, Supply, Transportation and Safe Delivery to Site of 1500kVA, 400V, 0.8pf, 50Hz 3 phase DG Set along with its auxiliaries for Design Extension Condition (DEC) at KKNPP-3&4, complete in all respects as per technical specifications forwarded along with Tender No. CMM/MEQ/25-24-2-1188 and further described in the following:- SECTION-A : Items and Price Schedule SECTION-B : Commercial Terms and Conditions: Basis of price, Statutory levies, Delivery schedule, Terms of Payment, etc. SECTION-C : Technical Specifications SECTION-E : Approved Sub-Vendors List Annexure - 1 : Break - up Price Schedule for Supply of Main Items Annexure - 2 : Break - up Price Schedule for Supply of Mandatory & Essential Spares Annexure - 3 : Break - up Price Schedule for Seismic Qualification Testing. Appendix-1 : Reference Particulars Annexure-A : Format for 'Advance Bank Guarantee' Annexure-B : Format for 'Performance Security Bond' Annexure-C : Format for 'Retention Bank Guarantee' Annexure-F : Format for 'Certificate towards Goods and Services Tax & TDS Declaration'. Annexure-K : Format for 'Latent Defect Liability' Bank Guarantee	As in Section- A	As in Section- A	As in Section- A	As in Section- A

cont.....

पंजीकृत कार्यालय: 16 वी मंजिल, सेंटर-1, वर्ल्ड ट्रेड सेंटर, कफ परेड, कुलाबा, मुंबई - 400 005
Regd. Office : 16th Floor, Center-1, World Trade Centre, Cuffe Parade, Colaba, Mumbai - 400 005
Visit us at : www.npcil.nic.in

PURCHASE ORDER No. CMM/MEQ/25-24-2-1188/e-PO/0045

Our GST No.: (For KKNPP, Tamil Nadu - 33AAACN3154F2ZW)

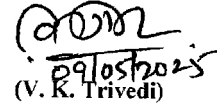
Prices : As per Section-B.
Place of Delivery : As per Section-B.

Delivery Period: As per Section-B.

General Conditions of Contract for Engineering, Procurement and Construction Contracts, applicable to Contracts for Indigenous Stores, placed by Nuclear Power Corporation of India Ltd., (A Government of India Enterprise) detailed in Form No. GCC/EPC-4/Rev.4, and this Purchase Order shall be the sole repository of the Contract.

Please acknowledge receipt immediately.

Yours faithfully,


(V. K. Trivedi)

Associate Director, C&MM

For & on behalf of Nuclear Power Corporation Of India Ltd.
(The Purchaser)

Important:

1. Bills should be submitted in triplicate to the Paying Authority at the address as indicated in the Purchase Order alongwith all relevant Documents and as specified in this Purchase Order.

Delivery Instructions:

1. Stores are to be delivered at the place of delivery stipulated in this Purchase Order on any working day between 10.30 a.m. and 3.00 p.m.
2. No Stores shall be accepted by the Stores unless Delivery Challan giving full details of the Purchase Order No. and Date, Description of Stores, Quantity, Make, Unit and Gross Weight or Net Weight is submitted with the Stores. In absence of any of the above, the Store-keeper shall refuse to take delivery of the Stores.

SECTION A - ITEMS AND PRICE SCHEDULE

Sr. No.	Description	Quantity	Total Price
			INR (₹)
1.0	Design, Engineering, Procurement, Fabrication/ Manufacture, Documentation, Quality Assurance, Testing including Seismic Qualification Testing, Training at works, Packing & Forwarding, Supply, Transportation and Safe Delivery to Site of 1500kVA, 400V, 0.8pf, 50Hz 3 phase DG Set along with its auxiliaries for Design Extension Condition (DEC) at KKNPP-3&4, complete in all respects as per technical specifications forwarded along with Tender No. CMM/MEQ/25-24-2-1188 and further described in the following:-	-	-
1.1	Supply of Main Items	As per Annexure-1	18,16,47,991.68
1.2	Supply of Mandatory & Essential Spares	As per Annexure-2	1,56,13,338.00
1.3	Siesmic Qualification Testing	As per Annexure-3	3,32,23,584.74
		TOTAL:	23,04,84,914

(INR Twenty Three Crore Four Lakh Eighty Four Thousand Nine Hundred Fourteen Only)


 09/05/2025
 (V. K. Trivedi)

Associate Director, C&MM

For & on behalf of Nuclear Power Corporation of India Limited
 (The Purchaser)

SECTION 'B': COMMERCIAL TERMS AND CONDITIONS

BASIS OF PRICE, STATUTORY LEVIES, DELIVERY SCHEDULE, TERMS OF PAYMENT ETC.

1.0 PRICE BASIS

- 1.1 The prices stipulated under Sr.no.1.1 & 1.2 of Section-A of the Purchase Order are for Supply of Diesel Generator Set and its Auxiliaries, Mandatory Spares respectively on DAP (Delivered at Place) as per INCOTERMS-2010 at KKNPP-3&4 Project, Kudankulam, Tamilnadu Site basis inclusive of Packing & Forwarding, Freight, Transit Insurance charges, Goods & Services Tax (GST) and all other indirect taxes.
- 1.1.1 The prices stipulated under Sr.no.1.3 of Section-A of the Purchase Order are for Seismic Qualification Testing inclusive of Goods and Services Tax (GST) and all other indirect taxes.
- 1.2 The Prices indicated in Section-A shall remain firm through out the currency of the contract.
- 1.3 This is a lump sum contract and as such the responsibility for inclusion and supply of all the items required to meet the intent of the complete package lies with the Contractor within the stated contract price in Section-A of this Purchase Order.
- 1.3.1 In case of requirement of any additional items/quantities beyond this BOQ to complete the facilities as per the scope of the Contract, the prices of such additional items/quantities are deemed to have been included in the Contract Price and as such additional price implications if any, are to be absorbed by the Contractor. However, if any of the quantities/items delivered as per this BOQ are found to be excess on completion and handing over of the facilities, such items shall remain to be the property of the Purchaser.
- 1.3.2 In case the Contractor brings in some items in excess of the quantities/items mentioned in the BOQ to meet the exigencies of the Site works, all such excess items if left over after the execution of the contract, are allowed to be taken back by the Contractor.

1.4 TRANSPORTATION & TRANSIT INSURANCE CHARGES

- 1.4.1 Prices stipulated in Section-A are inclusive of Transportation & Transit Insurance Charges. The Contractor shall solely remain responsible for safe delivery of items at the Purchaser's site.
- 1.4.2 Items shall be dispatched to KKNPP-3&4 Site through reputed transporter without transshipment en-route.
- 1.4.3 Transit Insurance shall be arranged by the Contractor as per Clause No.16.0



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

2.0 TAXES AND DUTIES

2.1 Indirect Taxes and Duties

- 2.1.1 The prices stipulated in Section-A are inclusive of Goods and Services Tax (GST) and any other Indian Indirect Taxes payable in India for the final product / services.
- 2.1.2 Contractor shall be responsible for payment of all Indian Taxes, Duties including IGST on imports, if any, and all other statutory levies as applicable in connection with supply of the Stores.
- 2.1.3 In case of increase in existing taxes/duties and/or introduction of any other new indirect taxes / cess, if levied by Government during the contractual delivery period, the incremental rate of existing taxes/levies and/or any other new indirect taxes/cess, shall be reimbursed / paid by the Purchaser upon verification of the documentary evidences submitted and its acceptance by the purchaser. This provision shall not apply to changes in Personal Income Tax or Corporate Income tax or to changes in non-Indian Taxes.
- 2.1.4 For extension in the contractual delivery period for the reasons attributable to the Purchaser and/or Force Majeure, increase in existing taxes & duties, if any, and new tax component introduced in the extended period shall be reimbursed to the Contractor subject to the submissions of necessary documentary evidence. No increase / new tax shall be payable during the delay period due to reasons attributable to the Contractor.
- 2.1.5 GST on Liquidated Damages (LD), as applicable, shall be to the account of the Contractor and shall be recovered from payments due to the Contractor.
- 2.1.6 The provisions of the Central Goods and Services Tax Act 2017 (CGST), the Integrated Goods and Services Tax Act 2017 (IGST), the relevant SGST act of the State Government, the Union Territories Goods and Services Tax Act 2017 (UTGST) and the Goods and Services Compensation to States Tax Act 2017 and their Rules as being enacted and amended from time to time are applicable to this Contract. Accordingly the Contractor has confirmed that all input tax credits and the exemptions available therein are passed on to the Purchaser.
- 2.1.7 GST, as applicable or quoted, whichever is lower will be reimbursed by Purchaser limiting to the rate prevailing within the contractual delivery schedule.
- 2.1.8 While claiming the GST, the Contractor is required to adhere to the provisions available therein. The Contractors are required to populate the details of GST paid by them in the GST portal, only upon which reimbursement of GST would be considered.
- 2.1.9 When GST is claimed by the Contractor a certificate as per Annexure F should be submitted to the paying authority with their invoices.



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

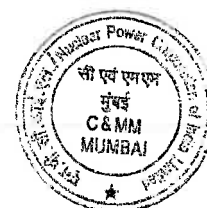
- 2.1.10 The Purchaser shall, at the time of its payments due to the Contractor, withhold the necessary tax at source at such rate if required under the legislation unless and to the extent that the Contractor shall produce to the Purchaser any certificate issued by a Government Authority (having authority to issue such certificate) entitling the Contractor to receive the payments under the Contract for a prescribed period without deduction of any tax or deduction at a lower rate.
- 2.1.11 In case of such deduction as mentioned above, the Purchaser shall provide the necessary withholding tax certificates to the Contractor within the time stipulated by the relevant law to enable the Contractor to file the same with the Government Authority as a proof of payment of such taxes.
- 2.1.12 Contractor's G.S.T. Regn. No. is 27AAACP3812E1ZT, 26AAACP3812E1ZV, 29AAACP3812E1ZP, 33AAACP3812E1Z0.

2.2 Direct Tax:- Tax Deduction at Source

- 2.2.1 The Purchaser shall have the right to withhold taxes on income, excess profits, royalty and other taxes from payments due to Contractor under this Contract to the extent that such withholding may be required by the government of India or any relevant authority thereof or by the government of any other country, and payment by the Purchaser to the respective governmental office of the amount of money so withheld will relieve the Purchaser from any further obligation to Contractor with respect to the amount so withheld.
- 2.2.2 The Purchaser shall, at the time of its payments due to the contractor, withhold the necessary taxes at such rate as is required by any Government Authority, unless and to the extent that the Contractor shall produce to the Purchaser any certificate issued by a Government Authority (having authority to issue such certificate) entitling the Contractor to receive the payments under the Contract for a prescribed period without deduction of any tax or deduction at a lower rate.
- 2.2.3 The Purchaser shall provide the necessary withholding tax certificates to the Contractor within the time stipulated by the relevant law to enable the contractor to file the same with the Government Authority as a proof of payment of such taxes.
- 2.2.4 All taxes levied on Contractor's corporate income or profits shall be for the account of Contractor and shall not be reimbursed by the Purchaser. Contractor shall also be responsible for payment of income taxes of its personnel levied in India or elsewhere.

2.3 Indirect Tax:-Tax Deduction at source

- 2.3.1 The Purchaser shall, at the time of its payments due to the Contractor, withhold the necessary tax at source at such rate if required under the legislation unless and to the extent that the Contractor shall produce to the Purchaser any certificate issued by a Government Authority (having authority to issue such certificate) entitling the Contractor to receive the payments under the Contract for a prescribed period without deduction of any tax or deduction at a lower rate.



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

- 2.3.2 In case of such deductions as mentioned above, the Purchaser shall provide the necessary withholding tax certificates to the Contractor within the time stipulated by the relevant law to enable the Contractor to file the same with the Government Authority as a proof of payment of such taxes.

3.0 SUBMISSION OF DRAWINGS / PROCEDURES / DOCUMENTS

- 3.1 The Contractor shall prepare and submit all drawings, documents, Quality Assurance Plans etc. as specified in the tender specification for approval to:

Additional Chief Engineer (Procurement - LWR),
Nuclear Power Corporation of India Limited,
KK Hall, Nabhikiya Urja Bhavan, Anushaktinagar,
Mumbai 400 094.

with a copy to:

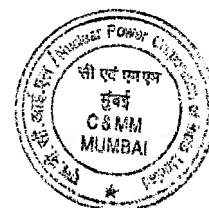
Associate Director (C&MM),
Nuclear Power Corporation of India Limited,
C&MM, Nabhikiya Urja Bhavan, Anushaktinagar,
Mumbai 400 094.

Please note that drawings / documents / quality assurance plan approved by the **Additional Chief Engineer (Procurement-LWR), NPCIL** or his authorised Engineer will form part of this contract.

- 3.2 All correspondence of technical nature shall also be addressed to the designated official in Clause No. 3.1 above.

4.0 QUALITY SURVEILLANCE

- 4.1 It is the responsibility of the Contractor to ensure compliance with the quality assurance requirement stipulated in the Tender document. For this purpose, Contractor shall have appropriate quality assurance organisation and have personnel with requisite qualification to carry out inspection /quality surveillance.
- 4.2 All works covered by this purchase order shall be subject to Quality Surveillance by Executive Director (QA) or his authorised representative. The Contractor shall provide all required assistance for this purpose. Purchaser reserves the right to carryout auditing of the activities of the contractor/subcontractors at their works/premises.
- 4.3 Where the consignments are despatched / delivered after inspection by the Purchaser / his authorised representative / inspection agency, a copy of the Shipping Release issued by him shall, invariably, be enclosed with the delivery challan and other shipping documents (LR, RR etc.), accompanying the consignment.



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

4.4 The equipment / stores shall be despatched only after the same are cleared by the Purchaser/his representative nominated for this purpose & shipping release as per the prescribed format is obtained in writing.

4.5 E-mail ID for Quality Assurance Office: edqa@npcil.co.in, Ph No. 022-25995030.

5.0 CONTRACTUAL DELIVERY SCHEDULE

5.1 The completion of Supply, Erection, Testing, Commissioning, Civil Works and Handing over in acceptable condition of facilities covered in this Contract shall be completed as under:-

Clause No.	Activity	Contractual Delivery Schedule
5.1.1	DG Set along with its auxiliaries for Design Extension Condition (DEC) complete in all respects as per technical specifications for KKNPP Unit – 3 along with Mandatory & Essential Spares for KKNPP Unit 3&4.	19 months from the date of Purchase Order i.e. on or before: 8 DEC 2026
5.1.2	DG Set along with its auxiliaries for Design Extension Condition (DEC) complete in all respects as per technical specifications for KKNPP Unit – 4.	27 months from the date of Purchase Order i.e. on or before: 8 AUG 2027

5.2 In case the Contractor fails to apply and secure extension of contractual delivery schedule indicated in Sr. No. 5.1 above, acceptance of facility by the Purchaser will in no way prejudice the right of the Purchaser to levy liquidated damages for delays nor will it entitle contractor for payment of additional statutory levies that comes into force after the expiry of the contractual delivery schedule.

6.0 DEFECT LIABILITY PERIOD

6.1 Items/Equipment/System

6.1.1 The defect liability period shall be 18 months from the date of completion of facilities (satisfactory erection & pre-commissioning) or 12 months from the date of Operational Acceptance of Facilities (Commissioning) whichever occurs first for each Reactor Unit i.e.KKNPP-3 or KKNPP-4.

6.2 Spares

6.2.1 The defect liability period shall be 18 months from the date of receipt of items (last consignment) at site or 12 months from the date of acceptance of items (last item) whichever occurs first.



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

7.0 PERFORMANCE SECURITY BOND (SECURITY DEPOSIT CUM PERFORMANCE BOND)

- 7.1 The Contractor shall furnish a Performance Security Bond, as detailed below, for **10%** of the Purchase Order value covering the total scope of work i.e. Supply, Erection & Commissioning, Civil Works under **PO No. CMM/MEQ/25-24-2-1188/e-PO/0045 for Supply Contract and PO No. CMM/MEQ/25-24-2-1188/e-PO/0046 for Erection & Commissioning Contract** in the form of a Bank Guarantee / Insurance Surety Bond as per prescribed format within 30 days from the date of issue of this Purchase Order and it shall be valid till satisfactory completion of defect liability period plus a grace period of 3 Months.

Item Description	Value of Performance Security Bond	Valid upto
DG Set along with its auxiliaries for Design Extension Condition (DEC) complete in all respects as per technical specifications for KKNPP-3&4.	INR 2,77,95,418/- (Rupees Two Crore Seventy Seven Lakh Ninety Five Thousand Four Hundred Eighteen Only)	8 FEB 2029 Plus Three Months Grace Period

- 7.2 The Performance Security Bond Bank Guarantee / Insurance Surety Bond shall be released, on successful completion of Defect Liability Period including extension thereof, if any, and on submission of bank guarantee for Latent Defect Security as per Clause No. 21.0 of the Purchase Order.

8.0 PACKING & TRANSPORTATION

- 8.1 The Items covered under this Purchase Order shall be packed/crated as per the procedure mutually agreed between by the Purchaser and the Contractor.
- 8.2 The items shall be packed securely to avoid any damage to the consignment in transit.
- 8.3 The Stores shall be despatched to the Consignee / Place of Delivery through a reputed transport contractor without any transshipment en-route.

9.0 CONSIGNEE / PLACE OF DELIVERY

- 9.1 All items covered under this purchase order shall be despatched on door delivery basis without transshipment enroute to:

Manager (Materials), C&MM
Nuclear Power Corporation of India Limited,
Kudankulam Nuclear Power Project-3&4,
PO: Kudankulam, Taluka : Radhapuram,
Dist: Tirunelveli, Tamil Nadu – 627 106.



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

- 9.2 All items covered under this order shall be despatched to consignee by ROAD on DAP Site basis to Kudankulam Nuclear Power Project-3&4 Site.

10.0 TERMS OF PAYMENT

Note: 1) Advance payments will be interest-bearing at the applicable rate as notified by NPCIL on the first of April each year.

The rate of interest for the financial year, FY 2025-26, is 10.14% p.a.

- 2) Upon completion of the activity/milestone, payment will be released after adjusting advance payments and interest accrued.
- 3) Unless otherwise stipulated, interest shall be calculated on advances from the date of release until the preceding day of recovery from the bills.

10.1 For Main items (Sr. No. 1.1 of Section-A)

10.1.1 10% of Basic Price (inclusive of Packing & Forwarding charges) and exclusive of taxes & duties will be released as advance against acceptance of Purchase Order along with following deliverables / activities with due certification / acceptance by Purchaser's authorised representative on the following:-

- i Completion of kick start Meeting.
- ii Submission of Organizational Plan / Chart to execute the contract.
- iii Submission of Project Execution Methodology along with detailed schedule of execution of contract and submission of details on how the advance money will be spent by the Contractor.
- iv Submission of Front End Schedule covering the activities planned for the first 90 days of contract.
- v Identification of first priority deliverables to be submitted.

And on submission of following documents:

- a. Invoice of the contractor. (1 Original + 2 Copies)
- b. Unconditional Purchase order acceptance.
- c. A Bank Guarantee for equivalent amount valid till the Contractual Delivery Schedule plus a claim period of three months.
- d. Performance Security Bond as per Clause No.7.0.



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

e. A Certificate issued by **Addl. Chief Engineer (Procurement - LWR)** or his authorized representative stating that Contractor has successfully completed activities, as indicated in clause no. 10.1.1 and payment as per clause no.10.1.1 of Section B of the Purchase Order can be released.

f. Declaration Form as per ANNEXURE-F.

10.1.2 60% of Basic Price (inclusive of Packing & Forwarding charges) alongwith 100% taxes & duties as applicable and alongwith 100% Seismic Qualification testing charges mentioned under Sr. No. 1.3 of Section-A as applicable, will be released on pro-rata basis against despatch of items to KKNPP-3&4 site with due certification by Purchaser's authorized representative and on submission of following documents:-

a. Invoice of the contractor. (1 Original + 2 Copies)

b. Proof of despatch: Copy of "Consignee Copy of LR" duly certified and signed in ink by the Contractor with requisite office seal.

c. Shipping Release, in original, issued by the NPCIL's Inspection Authority duly signed in ink with NPCIL Logo.

d. Copy of Transit Insurance Policy.

e. A Certificate issued by **Addl. Chief Engineer (Procurement - LWR)** or his authorized representative stating that the Seismic Qualification Testing activities, as applicable, have been satisfactorily completed and payment as per clause no.10.1.2 can be released.

f. Declaration Form as per ANNEXURE-F.

10.1.3 20% of Basic Price (inclusive of Packing & Forwarding charges) and exclusive of taxes & duties, alongwith 100% Freight & Transit Insurance charges will be released on receipt of items at site on pro-rata basis against physical verification and certification of items at site and on submission of the following documents:-

a. Invoice of the Contractor. (1 Original + 2 Copies).

b. Proof of Delivery: Receipted Delivery Challan /Receipted LR in original issued by the consignee duly signed in ink with requisite office seal.

c. A Certificate from Chief Construction Engineer, KKNPP-3&4 Project or his authorized representative stating that Physical Verification of items as per Packing List/ Delivery Challan and all documentation regarding receipt formalities are completed and indicate that payment under Clause No.10.1.3 can be released.

d. Declaration Form as per ANNEXURE-F.



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- 10.1.4 7.5% of Basic Price (inclusive of Packing & Forwarding charges) and exclusive of taxes & duties will be released on Handing over of the facilities to the Purchaser and issue of Operational Acceptance Certificate by the Purchaser's Engineer for each Reactor Unit and on submission of following documents:-
- Invoice of the contractor. (1 Original + 2 Copies).
 - Operational Acceptance Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his Authorised representative for each Reactor Unit.
 - Declaration Form as per ANNEXURE-F.
- 10.1.5 2.5% of Basic Price (inclusive of Packing & Forwarding charges) and exclusive of taxes & duties will be released against completion of Material Accounting and on submission of following documents:-
- Invoice of the contractor. (1 Original + 2 Copies).
 - A certificate issued by Chief Construction Engineer, KKNPP-3&4 or his Authorised representative stating that Material Accounting has been completed satisfactorily. The certificate shall also indicate that payment as per Clause No.10.1.5 may be released.
 - Declaration Form as per ANNEXURE-F.
- 10.1.6 In the event of delay in attaining the events pertaining to sub-clause 10.1.4 and 10.1.5 above for reasons attributable to the Purchaser, the corresponding payments can be released to the Contractor on expiry of Original CDD against Retention Bank Guarantee as per format given in Annexure-C, initially valid for 6 months and subsequently extendable till completion of the corresponding events subject to completion of supply of all the items This Retention BG will be used for recovery of LD pursuant to GCC clause no. 6.2 (Delay in Supply) and GST on LD , as applicable, in addition to failure to fulfil the obligations of the contract by the Contractor.

On submission of this Retention Bank Guarantee, it shall be deemed and construed that the contractor has authorized the Purchaser to encash the Retention Bank Guarantee, for recovery of any amount whatsoever it may be, in general and for recovery of Liquidated Damages (LD) in particular due to failure on the part of contractor to fulfill its part of obligation. The decision of NPCIL, in this regard, shall be final and binding.

10.2 For Mandatory & Essential Spares (Sr. No. 1.2 of Section-A)

- 10.2.1 75% of the Basic price (inclusive of Packing & Forwarding charges) alongwith 100% Taxes & Duties, as applicable, will be released on pro-rata basis against dispatch of spares to KKNPP- 3&4 site and on submission of following documents:
- Invoice of contractor. (1 Original + 2 Copies).



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

- b. Proof of despatch: Photocopy of "Consignee Copy of LR" duly certified and signed in ink by the Contractor with requisite office seal.
 - c. Shipping Release, in original, issued by the NPCIL's Inspection Authority duly signed in ink with NPCIL Logo.
 - d. Copy of Transit Insurance Policy.
 - e. Declaration Form as per ANNEXURE-F.
- 10.2.2 25% of Basic price (inclusive of Packing & Forwarding charges) alongwith 100% Freight & Transit Insurance charges will be released on pro-rata basis upon receipt and acceptance of spares at site and on submission of the following documents:
- a. Invoice of contractor. (1 Original + 2 Copies).
 - b. Proof of Delivery: Receipted Delivery challan /Receipted LR in original issued by the consignee duly signed in ink with requisite office seal.
 - c. Declaration Form as per ANNEXURE-F.

11.0 MODE OF PAYMENT

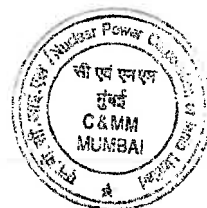
- 11.1 The payment in Indian rupees, as applicable, will be released by the Purchaser through their bankers, as per the stipulated terms of payment to the Contractor's Bank account against submission of necessary documents.
- 11.2 To facilitate payment through NEFT/RTGS/WIRE TRANSFER, Contractor shall submit bank details duly authenticated by the concerned bank on or before submission of the first invoice/bill. Subsequently, in case of any change/revision these details shall again need to be duly authenticated by the respective bank.

12.0 PAYING AUTHORITY

- 12.1 All invoices/bills should be addressed to the consignee indicated in Clause No. 9.1 with GST No. of the supplier/contractor along with HSN / SA Code of the items supplied. However, all the invoices/bills and other documents for payment shall be submitted to Paying Authority indicated below:

Manager (F&A)

Directorate of Contracts & Materials Management,
Nuclear Power Corporation of India Limited,
A-0 Block, Ground Floor, Nabhikiya Urja Bhavan,
Anushakti Nagar, MUMBAI 400 094.



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13.0 BANK GUARANTEES

- 13.1 All bank guarantees strictly in conformity with the formats enclosed herewith shall be got executed from Scheduled Commercial Bank in India (except Co-operative Bank) and shall be governed by Indian Laws and subject to jurisdiction of Courts in Mumbai, India. All Bank Guarantees shall be submitted directly by the concerned bank under their seal and cover for acceptance to :

Manager (Contracts),

Directorate of Contracts & Materials Management,
Nuclear Power Corporation of India Limited,
A-0 Block, Ground Floor, Nabhikiya Urja Bhavan,
Anushakti Nagar, MUMBAI 400 094.

- 13.2 Reduction in Bank Guarantee values of advances mentioned under clause no. 10.1.1 shall be allowed upon the pro-rata supplies once in six months.

14.0 TERMS AND CONDITIONS OF CONTRACT

- 14.1 This Purchase Order shall be governed by the Terms & Conditions contained in the following documents, with the priority in the following sequence:

- a) Contract Agreement / Purchase Order along with subsequent correspondences with the contractor as per list in the Appendix -1 : Reference Particulars.
- b) Special Conditions of Contract (SCC).
- c) General Conditions of the contract, GCC/EPC-4/R-4
- d) Tender (including technical specifications, drawings, etc.) document, other than Sr.no. (b) & (c) above.

15.0 LIQUIDATED DAMAGES

- 15.1 In the event of delay in completion of facilities as detailed in Clause no. 5.0, Liquidated damages will be levied at the rate of 0.25% of the total Contract value per week or part thereof subject to a maximum of 5% of the total Contract value (i.e. **P.O.CMM/MEQ/25-24-2-1188/e-PO/0045 for Supply Contract and P.O.CMM/MEQ/25-24-2-1188/e-PO/0046 for Erection & Commissioning Contract**). Liquidated Damages along with Goods and Service Tax (GST), as applicable, shall be recovered from the Contractor.

16.0 INSURANCE COVER

- 16.1 The Contractor will furnish insurance policy and shall, take out and maintain in effect the following Insurance based on reinstatement value during the performance of the contract and the Purchaser (i.e. NPCIL) shall be named as co-insured under all insurance policies. All Insurer's rights of subrogation against co-insured shall be waived. Deductible / Excess if any, under the insurance policy shall be borne by the Contractor. The identity of the Insurers and the form of policies shall be subject to the approval of the Purchaser.



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16.2 Cargo Insurance

- 16.2.1 During ocean transit and inland transportation, covering loss or damage as per ICC-Clause- 'A' with war/SRCC provision, for full replacement value of the consignment/cargo from the Contractor's or Subcontractor's works or stores until arrival and unloading at project site. The Purchaser (i.e. NPCIL) shall be named as LOSS PAYEE in this Insurance Policy

17.0 SUB-CONTRACT

- 17.1 The Contractor shall not Sub-Contract any or all of the work without a written consent from Purchaser. The Contractor shall be responsible to the Purchaser for all work including that of the sub-contractor, if allowed by the Purchaser.
- 17.2 A list of approved vendors / sub-vendors / sub-contractors is shown as Section-E to this purchase order. In the event contractor desires inclusion of additional vendors / sub-vendors / sub-contractors in the above list, the qualification and approval of the suggested vendors/sub-vendors/sub-contractors shall be done as per the conditions mentioned in the tender specifications.

19.0 SECRECY CLAUSE

- 19.1 The Purchase Order shall be governed by Confidentiality clause no. 1.10 of General Conditions of Contract, i.e. GCC/EPC-4/Rev-4.
- 19.2 The design, drawings, specifications and other details furnished to the Contractor by the Purchaser towards manufacture of equipment are to be treated as secret and shall not be divulged to any third party. The Contractor, therefore, bind himself, his successor, his executors, administrators, employees and the permitted assignees or such other persons, agents directly or indirectly concerned with the works / supply to the secret nature of design, drawings, specifications etc.

20.0 SETTLEMENT OF DISPUTE

- 20.1 Settlement of dispute will be governed as per Clause no.22 of GCC/EPC-4/R-4.

21.0 LATENT DEFECT SECURITY

- 21.1 The Contractor shall submit a Bank Guarantee for 1% (One Percent) of the total value of goods sold in the respective currencies under **P.O. No. CMM/MEQ/25-24-2-1188/e-PO/0045 for Supply Contract**, as security against Latent Defect. This Bank Guarantee shall be valid for a period of 5 (Five) years (Plus Claim Period of Three Months) from the date of successful completion of the Defect Liability Period as per the contract.



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22.0 PROGRESS REPORTING

- 22.1 The Contractor shall submit the monthly Progress Report for monitoring the progress of the work in an acceptable format to:

Additional Chief Engineer (Procurement - LWR),
Nuclear Power Corporation of India Limited,
B-2-12 Block, Nabhikiya Urja Bhavan, Anushaktinagar,
Mumbai 400 094

for monitoring the progress of the work with a copy to **Associate Director (C&MM), NPCIL, Mumbai** for information.

- 22.2 A hindrance register shall be maintained in the office of **Additional Chief Engineer (Procurement - LWR), NPCIL, MUMBAI**, for recording/monitoring of hindrance to the progress of work and resolution thereof.

23.0 E-Way Bill

- 23.1 For despatching the materials necessary E-way Bill shall be generated by the consignor before despatch. Guidelines / Procedure of GST Council / Govt. of India shall be complied as issued from time to time. The Contractor shall also be responsible for maintaining the validity of the E-way Bill, till the material reaches the Place of Delivery.

24.0 POST ORDER CORRESPONDENCE

- 24.1 All Correspondence regarding Technical matters in respect of this order shall henceforth be addressed to:

Additional Chief Engineer (Procurement - LWR),
Nuclear Power Corporation of India Limited,
KK Hall, Nabhikiya Urja Bhavan, Anushaktinagar,
Mumbai 400 094

- 24.2 All Correspondence regarding Commercial matters in respect of this order shall henceforth be addressed to:

Associate Director (C&MM),
Nuclear Power Corporation of India Limited,
Directorate of Contracts & Materials Management,
A-0 Block, Ground Floor, Nabhikiya Urja Bhavan, Anushakti Nagar,
Mumbai-400 094.


09/05/2025

(V. K. Trivedi)

Associate Director, C&MM

For and on behalf of Nuclear Power Corporation of India Limited
(The Purchaser)

SECTION-C: TECHNICAL SPECIFICATIONS

1.0 Brief scope of Supply/Works/Services:

- 1.1 This specification covers engineering, design, manufacturing, constructional features, inspection and testing at Contractor's/ Sub-Contractor's works, packing, transportation, safe delivery at site, erection, commissioning and performance of functional & load tests at site.

The major areas of scope are:

- a) 1200kW DEC (Design Extended Condition) diesel generator sets shall include all accessories, fuel oil system, lube oil system, cooling system, ventilation, battery and battery chargers, etc. complete in all respects.
 - b) The DEC DG set shall be enclosed either in a Galvalumin/Aluminium sheet canopy or be of containerized version, designed to power the loads involved in the Design Extension Condition (DEC) management associated with a complete loss of onsite and offsite AC power sources for over 24 hours. The DG plant shall be able to operate at rated power, for at least eight hours using the day fuel tank. Continuous operation beyond these 8-hour would be subject to topping up of day fuel tank.
 - c) The equipment setup shall include two diesel generator sets (one for each NPP unit), one portable carriage-mounted Resistive load bank of capacity 50 % of name plate rating of DEC DG (For the purpose of the DG set testing).
 - d) Ventilation fans for DG as required, filters for air intake, weathering steel/ COR-TEN steel construction DG exhaust stack meeting statutory requirements. (along with rain hood, louvers and/ or bird mesh/screen).
 - e) Civil requirements such as design, drawings, construction, etc. shall be as per attached Annexure-1 of Section-C in the Tender Document (CMM/MEQ/25-24-2-1188).
 - f) LV distribution panel comprising incomer breaker, bus, outgoing feeder breakers, etc. as per annexure 3 shall be designed, manufactured, tested, supplied, erected, tested and commissioned.
 - g) Seismic qualification for DEC DG & auxiliaries and Supporting Systems, etc. shall be as per attached Annexure-2 of Section-C in the Tender Document (CMM/MEQ/25-24-2-1188).
- 1.2 Whether called for specifically or not, all accessories required for normal operation of the equipment and installation at site is deemed to be considered as a part of Contractor's scope of supply/site works. Any special tools and tackles required for maintenance and erection are deemed to be included in the scope of supply.
- 1.3 Spares as listed in Sl. No – 11 (I02.KK34.0.0.ET.TB.PR127) and Mandatory spares (Page No.-57 of 89 in ET.TS.PR127) shall be supplied by the Contractor.
- 1.4 It is not the intent Purchaser to specify completely herein, all details of design and construction of the equipment. However, the equipment shall conform in all respects to standards of engineering, design and workmanship and be capable of performing continuous commercial operation in a manner acceptable to the Purchaser who will interpret the meaning of drawings, specification and shall be entitled to reject any work or material which in his judgment is not in full accordance therewith.



SECTION-C: TECHNICAL SPECIFICATIONS

- 1.5 DEC Diesel generator along with its base frame, vibration isolating arrangement (if provided), together with all control accessories, instruments, radiators, etc. forming integral part of diesel generator set normally assembled and mounted as a unit inside the acoustic enclosure shall be qualified - testing or through analysis, preferably testing to the specified level of earthquake and other requirements in accordance with a procedure to be approved by the Purchaser. The electrical distribution board shall be seismically qualified through shake table tests. The enveloped seismic response spectra and other requirements shall be developed by the successful bidder during execution of the contract and submitted for approval to the Purchaser. If the offered DG set has already been qualified to a response spectra profile matching or containing the enveloped spectra, then test report subject to Purchaser's approval of such a qualification report shall be acceptable in lieu of fresh qualification. However, if no prior qualification has been done or if valid reports are not available, the same shall be qualified by the successful bidder for this project. The final decision on the validity of the qualification reports will be solely based on Purchaser's assessment. If testing facility is not available in India; DG sets and auxiliaries shall be qualified through analysis.
- 1.6 Where tests are undertaken, pre-seismic & post-seismic tests and other requirements shall be performed at factory/ Laboratory contractor's works. During seismic and other requirements testing, silencer which is a part of acoustic enclosure need not be mounted on the engine as DG will not be running and other DG accessories will be in de-energized condition. Post seismic and other requirements tests/ inspection shall not reveal any deviation in performance or compromised structural integrity.
- 1.7 The acoustic enclosure, silencer and external ducting, fuel tank, fuel pump and its associated
Portable refilling pump (of capacity 100 LPM; suction and discharge heads of 4 and 10 m respectively) to fill fuel oil from outside underground tank (UEJ) to the day fuel tank. The outside underground tank (UEJ tank) is located at -4.2 m elevation and around 200 m away from the day fuel tank. Isolating valve, intake filters along with their supporting structures shall be subjected to analysis by modelling the assembly. If the diesel generator assembly and acoustic enclosure are integral, load on account of diesel generator shall be included in this model for analysis. The analysis shall conclude structural integrity of the assembly and it's fixing arrangement with the embedded parts.
- 1.8 The scope of work also includes unloading at site, transportation to location of installation/ storage in case installation site is not ready, site supervision, security, complete erection and commissioning of items covered in this tender along with supply of all consumables and hardware required for erection and site testing. Diesel oil will be provided by NPCIL for erection and commissioning of the DG sets.
- 1.9 Exhaust stack height shall be as per the pollution control norms of the local state and national bodies where they have to be installed. The exhaust stack shall be constructed out of weathering steel/ COR-TEN steel to withstand the highly saline environment of the KKNPP site.



SECTION-C: TECHNICAL SPECIFICATIONS

- 1.10 DG and accessories including the GI ducting/piping and day fuel tank pipeline to the DG, refilling pipeline and their support structures shall be designed such that they can be easily Installed/ erected. All erection hardware and tools and tackles required for erection shall be supplied by the Contractor and are in the scope of this contract.
- 1.11 Terminal Points and Exclusions
- 1.12 As the subject item is a part of the combined package, scope of work includes all facilities and nothing is excluded. Seismic and other requirements, qualified anchor fasteners of approved make and types shall be provided by the Contractor wherever required.

2.0 General Functions and Technical Requirements:

- 2.1 The DEC DG is classified as safety Class 4 as per NP-001-15, PNAEG-01-011-97 "General provisions for assurance of safety at Nuclear Power Stations" (OPB-88/97) which is taken as equivalent to NINS class of AERB SG D 1, its seismic qualification shall be for Category I as per NP-031-01 "Regulation for design of anti-seismic nuclear power stations" which taken as equivalent to Seismic category 1 of AERB SG D 1.

Functional requirements of a 1200kW DEC DG Set

- 2.1.1 The DEC diesel generators are required to function as a standby source of electric power.
- 2.1.2 DEC Diesel generator sets shall consist of diesel generator set, associated auxiliary systems, radiator for cooling jacket water, base frame, vibration isolating devices, instruments, controls, protections and measurements, piping, silencer, flexible connections wherever required, day fuel tank rated for 8 hours, lube oil sump, tanks refilling hose, pump & isolating valve and acoustic enclosure or container/canopy, AVR, governor, DG control panel, starting battery, charger, LV distribution panel, cables, etc. to make the system complete. The DG set shall be complete with ventilation and fire protection for the container/ canopy, Resistive load bank for testing, etc.
- 2.1.3 The DEC DG shall comprise:
- Each DEC diesel generator shall include the following equipment and systems:
- a) Enclosure with door and process related opening;
 - b) Diesel generator as a set preinstalled on base frame;
 - c) Fuel system;
 - d) Oil system;
 - e) DG cooling system;
 - f) Radiators;
 - g) Electric start up system;
 - h) Exhaust system;
 - i) Air supply, heating, and ventilation system;



SECTION-C: TECHNICAL SPECIFICATIONS

- j) Lighting system;
- k) Storage battery recharging system;
- l) Basic firefighting equipment (fire extinguishers)
- m) Generator set control system
- n) Automatic voltage and field control system; DG protections (process- related and electric);
- o) I&C, switchgear (AC 0.4 kV) with connector to line it to the KKNPP 3&4 mains of respective voltage rating to supply the auxiliaries;
- p) Auxiliary rack, complete with switchgear to take power to feed the auxiliaries;
- q) Resistor Load bank to test the gen-set at 50% of its rating.
- r) The diesel engine shall have an automatic system of governor/crankshaft rotational frequency control (ARFCS).

The surfaces, subject to thermal insulation, shall be lagged as per "Design standards for thermal insulation of NPP equipment and piping "ISO 23466:2020
The thermal insulant shall be part of the DEC DG delivery.

3.0 Completeness of Delivery:

3.1 The DEC DG delivery shall include the following:

- a) DG as a set;
 - 1) Diesel-engine with coupling, ARFCS.
 - 2) Alternator, with a cable connection unit, the built-in current and voltage transformers, the excitation system and automatic voltage regulator;
 - 3) Set of embedded parts and mounts;
 - 4) Base-frame with vibro-insulators and terminals to connect to KKNPP 3&4 grounding loop;
- b) The DEC DG delivery shall also include:
 - 1) DEC DG control system, including panels to control its main and secondary systems;
 - 2) Starting system with batteries and backup power sources;
 - 3) Air drying/ cleaning unit (air intake system);
 - 4) Exhaust system, incl. silencer, ducting, complete with lagging & support structure;
 - 5) Cooling system, including conservator, radiators, fans, piping, valves and electric heaters (if required)
 - 6) Fuel system, including day tank, pumps, valves and other components
 - 7) Lubricating system, including its tanks, heat-exchangers, pumps and valves
 - 8) Set of instrumentation to adjust and monitor the DG and its systems performance, including sensors;
 - 9) Heating system (as required);
 - 10) Firefighting system;
 - 11) Lighting;
 - 12) Primary coolant, oil and fuel pre-heating facility, if required;
 - 13) Additional coolant, oil and fuel pre-heating, as required;
 - 14) A set of installation items;
 - 15) Spare parts;



SECTION-C: TECHNICAL SPECIFICATIONS

- 16) Tools and tackles and accessories;
- 17) Batteries
- 18) Rectifiers;
- 19) 0.4 kV switchboard (one set ;)
- 20) Appropriate packing
- 21) Test reports, certificates to support all delivery items;
- 22) External connections shall be supplied with companion flanges;
- 23) Mounts to fix the equipment to its support structures;
- 24) Special implements to grip the assemblies by lifting appliances for further shipping for repairs;
- 25) Repair tools
- 26) Anchorage;
- 27) Equivalent circuit specifying basic parameters (X_d , X_d' , X_d'' etc.) to calculate the short-circuit currents);
- 28) Loader bank for testing;
- 29) Set of cables;
- 30) Devices to handle the equipment power cables required and the method of their storage within

- 3.2 Once the respective stage of engineering and fabrication is over, the Vendor/ Manufacturer shall submit the following documents:

- 1) Product QA plan;
- 2) Technical specifications - 4 copies;
- 3) Service documentation - 4 copies;
- 4) Repair documentation

The coding system for the equipment and components shall be similar to that of KKNPP.

- 3.3 Among others, the following shall also be submitted to the Purchaser as a part of documentation:

A. Mechanical part:

- 1) Full set of auxiliary equipment, including assembly units and installation accessories of the packaged equipment, installation documentation, etc.;
- 2) Requirements for external services.
- 3) Allowable hydro test pressure and hydro test water temperature;
- 4) Determined power voltage swing characteristics;
- 5) Specification; assembly drawings with mounting dimensions, structural analysis; Product specifications, test program and procedure, operational documents;
- 6) Assembly drawings showing installation diagrams, its CoG, slinging tackle, etc.
- 7) Schematic piping diagram of the auxiliary services, showing the piping purpose, its DN details, type and specification of the ancillary equipment;
- 8) Sectional views and cross-sections to explain the elevation of day-tanks for oil and fuel, oil overflow tank, etc., as well as exhaust line mounting;
- 9) Sectional views and cross-sections to explain the service conditions of the cooling unit (i.e. the air intake to the cooling unit, its discharge and recirculation);
- 10) Description of system performance for all duties and that of the fire



SECTION-C: TECHNICAL SPECIFICATIONS

safety and environmental solutions;

11) Mounting flow diagrams;

B. Electrical part:

12) Electrical circuit diagrams for the primary and secondary connections;

13) Diagrams and algorithms of DG ACS performance;

14) wiring diagrams with relevant marking;

15) Diagrams of protections and alarms;

16) Drawings of electric boards with terminations;

17) Layout of electrical equipment, location of safety features and switchgear;

18) Peak loading schedule to determine the output of electric loads excepted by the diesel engine at any point of loading;

19) The table of external connections in terms of inputs, specified in respective sections.

The submittals shall include documentation for the Resistive load bank.

3.4 The documents shall be subject to approval by the Purchaser. After final approval, two registered hard and two soft copy of such documentation shall be submitted to the Purchaser.

3.5 The DEC DG equipment shall be shipped complete with a set of service and repair documentation.

3.6 Marking Requirement

3.6.1 The Supplier/Manufacturer shall have procedures to identify and follow the equipment components (parts, assembly units, etc.). For this purpose, the equipment, all the parts and assembly units of the equipment shall bear markings and be provided with accompanying documentation ensuring their identification and monitoring at all stages of their life cycle and confirming their compliance with the requirements of corresponding processes and regulatory documents.

3.6.2 The content, place and method of the equipment marking shall comply with the regulations applicable to the specific item, and shall be indicated in its engineering documentation. The method for applying marking shall ensure its legibility, quality, and indelibility during operation, transportation and storage.

3.6.3 The marking shall meet the following requirements:

- a. Be clear, legible, and not affect the item performance;
- b. The surface treatment and coating shall not damage marking, unless the mentioned marking is substituted by other identification means during manufacturing;
- c. Be resistant to mechanical and external climatic impacts, solutions and corrosive media (including decontaminants), the types and characteristics of which shall be determined by the engineering documentation, standards and/or technical specifications for the items of a specific type;
- d. The marking shall remain stable and strong for the item's entire service life under the conditions and modes specified in the equipment design documentation, standards and product specifications for particular types of items.

If the item is a composite one, each constituent shall preserve its original identification.

The process documentation shall describe the marking procedure.



SECTION-C: TECHNICAL SPECIFICATIONS

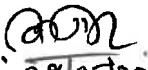
- 3.6.4 Individual KKS codes (functional designation) shall be assigned to the equipment according to this TS. The marking of functional designation shall be additionally approved by the Purchaser.
- 3.6.5 The equipment components that may be subject to overpressure or under pressure by their service conditions shall bear marking indicating at least the following data:
- Grade of material;
 - Certificate No. or manufacturing certificate;
 - Heat No., batch No., and (or) billet No.
 - Manufacturer trademark.
- 3.6.6 Once manufactured the equipment casing shall have a decal or marking installed in a prominent place to read the following:
- Manufacturer's name and/or trademark;
 - Item serial No., according to the Manufacturer's numbering system;
 - Year and month of manufacture;
 - DG designation;
 - Output;
 - Voltage;
 - Frequency;
 - RPM;
 - Current type;
 - Information on parameters and characteristics of equipment according to nomenclature established by the regulatory documents applicable to a specific equipment item;
 - Other information in accordance with the engineering documentation and/or supply contract;
 - Mass;
 - Safety class/ Group/ Seismic category.
 - The cargo marking (transportation marking) shall include handling signs and basic, additional and informative inscriptions, year and month of manufacture;
 - Data on equipment performance subject to cargo content.
- 3.7 Documentation from the Supplier during detailed engineering.
- 3.7.1 The equipment documentation shall be submitted within the full set of the design documents, including:
- General view drawings, explanatory note, specifications, loads on civil structures under NO conditions and under seismic loads, CoG (centre of gravity); instrumentation details, including control circuit diagram, sensor wiring diagram in the DG set terminal box; DG set control algorithm with the narrative of protections and interlock conditions (if necessary), the layout of electrical equipment and the structural diagram of cable links;
 - Assembly drawing with mounting dimensions, technical specifications, performance curves for fan selection, noise characteristics, installation instructions, equipment slinging diagram, test program and methods, criteria of - failures and limit states of the equipment, operational documents;
 - Structural analysis, with final verifications for strength and seismic resistance specifying the loading cases, loading diagrams, load combinations, values of the working stress (stress categories), standard allowable stress and safe loads.
 - Analysis of reliability parameters.



SECTION-C: TECHNICAL SPECIFICATIONS

- e. Fire potential Analysis based on engineering and fabrication results.
 - f. QA documentation for all stages of the item development.
 - g. Shipping documentation.
- 3.7 After final approval of the Purchaser, one registered copy of the Technical documentation shall be provided.
- 3.8 REQUIREMENTS TO I&C DOCUMENTATION
- 3.8.1 The documentation shall include:
- a. List of monitoring points for the gears;
 - b. List of isolating valves;
 - c. List of control valves;
 - d. Diagram of electric and piping detector connections;
 - e. Control algorithm, with a narrative of conditions for protections and interlocks;
 - f. Diagrams of cable connections for the LCP and electric auxiliary equipment of the DEC DG;
 - g. List of equipment, items and materials;
- 3.9 Nevertheless, the complete scope of work under the subject package shall confirm in all respects to the highest standard of Design and Engineering, Procurement, Manufacture, Factory inspection & testing, Shipment to site, storage & preservation at site, Erection / Construction, Testing, Commissioning, Trial operation, Performance Testing and Handing over etc.. By ensuring total quality and safety in the workmanship of various activities to be accomplished as per the scope of this package and as detailed in the tender documents.

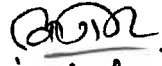
Contractor shall note that, it is not the intent to specify completely herein or above, all aspect of Design & Engineering, Procurement, Manufacture, Factory inspection & testing, Shipment to site, storage & preservation at site, Erection / Construction, Testing, Commissioning, Trial operation, Performance Testing and Handing over etc. which are all detailed in the tender documents (Tender No. CMM / MEQ / 25 - 24 - 2 - 1188) to be read along with Technical and Commercial clarifications recorded during Pre-Bid Stage, MoM signed during Part-I evaluation stage and other clarifications issued during negotiation, which shall all be binding on the Contractor.


09/05/2025
(V. K. Trivedi)

Associate Director, C&MM
For and on behalf of Nuclear Power Corporation of India Limited
(The Purchaser)

SECTION-E: APPROVED SUB-VENDOR LIST

I. No.	Item	Make
1.	Diesel engine	Kirloskar Oil Engines Ltd./ Cummins India Limited ('Cummins') / Caterpillar/ Perkins/Ashok Leyland / Mahindra & Mahindra
2.	Generator / AVR	Kirloskar/ Cummins Generator Technology "Stamford", AVK / /BHEL/TDPS
3.	Electrical components& switching devices	Schneider Electric
4.	Panel builders & integrators	Authorised channel partners of Schneider/L&T/Siemens/ABB
5.	Cables	Finolex/ Universal/ Polycab/ NICCO/ KEC/ Industrial Cables/ Apar/ KEI/ Torrent
6.	Ventilation Fans	Flakt (India) /Almonard/ Nadi Airtechnics / C.Doctor & Co.
7.	Consultants for Seismic Analysis	ProSIM R&D Pvt Ltd, Bengaluru / Omiti, Pune


09/05/2025

(V. K. Trivedi)

Associate Director, C&MM

For and on behalf of Nuclear Power Corporation of India Limited
(The Purchaser)

PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

Annexure-1: Break-up Price Schedule for Supply of Main Items

S/NO	ITEM DESCRIPTION	HSN Code	UOM	QTY FOR UNIT - 3	B2	QTY FOR UNIT - 4	TOTAL QTY FOR UNIT - 3 & 4	Unit Basic Prices including Packing and forwarding charges excluding GST (INR)	Total Basic Prices including Packing and forwarding charges excluding GST (INR)	Unit Charges towards Freight & Insurance excluding GST (INR)	Rate of GST in percentage on C+D	Total DAP Prices including Packing and Forwarding Charges, Freight & Insurance Charges, GST and all other indirect taxes (INR) {F=B(C+D)(1+E/100)}
			A	B1	B2	B-B1+B2		C		D	E	F
1.0	SUPPLY OF 1500 KVA DIESEL GENERATOR SETS ALONG WITH ALL THE AUXILIARIES FOR KKNPP UNITS - 3 & 4 Lump Sum Charges for design, engineering, Procurement, fabrication/ manufacture, documentation, quality assurance, complete testing as per tech. spec including routine and type tests as brought out in the technical specification (EXCEPT SEISMIC QUALIFICATION TESTING, WHICH IS COVERED IN A SEPARATE SCHEDULE) training at works, packing & forwarding, supply, transportation and safe delivery to site, including site handling, unloading & loading, complete in all respects, of 1500kVA, 400V, 0.8pf, 50Hz 3 phase DG set along with its auxiliaries for Kudankulam Nuclear Power Projects-3&4, as per technical specifications section-C of tender document and as per various documents and drawings to be prepared and finalized / approved during the execution of contract, complete in all respects . The items to be supplied along with DG Sets such as DG Auxiliaries, Independent Fuel Oil Tanks, Electrical Switchgear Panels are all defined in the Technical Specification and the same have to be supplied on an unitized basis. However, in case of 'Supply of 1.2MWc Capacity Resistive Type Load Bank', the supply of the Load Bank is common for both the Units and only one set of the Load Bank is to be supplied under this contract / package.	85021330	Sets	1	1	2		7,69,69,488.00	15,39,38,976.00	---	18	18,16,47,991.68
							TOTAL					18,16,47,991.68

(Rupees Eighteen Crore Sixteen Lakh Forty Seven Thousand Nine Hundred Ninety One and Paise Sixty Eight Only)


(V. K. Trivedi)

Associate Director
For & on behalf of Nuclear Power Corporation of India Limited
(The Purchaser)

PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

Annexure-2: Break-up Price Schedule for Supply of Mandatory & Essential Spares

SINO	ITEM DESCRIPTION	HSN Code	UOM	TOTAL QTY FOR UNIT - 3 & 4	Unit Basic Prices including Packing and forwarding charges excluding GST (INR)	Total Basic Prices including Packing and forwarding charges excluding GST (INR)	Unit Charges towards Freight & Insurance excluding GST (INR)	Rate of GST in percentage on C+D	Total DAP Prices including Packing and Forwarding Charges, Freight & Insurance Charges, GST and all other indirect taxes (INR) {I=B(C+D)(1+E/100)}
			A	B	C		D	E	F
1.0	SUPPLY OF MANDATORY & ESSENTIAL SPARES FOR EPC PACKAGE FOR 1500 KVA DIESEL GENERATOR SETS & ITS AUXILIARIES FOR KKNPP UNITS - 3 & 4; Lump Sum Charges for "Mandatory & Essential Spares" for Diesel Generators Sets & associated auxiliaries systems. All Mandatory Spares (i.e. Annexure-3 - Technical Specification of LV Switchgear, Wall mounted MCC, Wall mounted PDB, Valve controller Module for DEC Management for KKNPP-3&4) and Essential Spares (i.e. Sr. 11 of Technical Specification No. 102.KK34.0.0.EI.TB.PR127, R0) shall be supplied as per Section-C of the tender.	85030010	Set	1	1,30,85,033.37	1,30,85,033.37	1,46,609.00	18	1,56,13,338.00
				Total					1,56,13,338.00

(Rupees One Crore Fifty Six Lakh Thirteen Thousand Three Hundred Thirty Eight Only)


 . 09/05/2025
 (V.K.Trivedi)
 Associate Director, C&MM
 For & on behalf of Nuclear Power Corporation of India Limited
 (The Purchaser)

PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

Annexure-3: Break-up Price Schedule for Seismic Qualification Testing

SI NO	ITEM DESCRIPTION	HSN/SA Code	UOM	TOTAL QUANTITY FOR UNIT 3&4	Unit Price Inclusive Of GST And All Other Indirect Taxes In INR	Total Price Inclusive Of GST And All Other Indirect Taxes In INR (D = BxC)	Rate Of GST Included In Total Price In Percentage Under D (%)
1.0	TESTING / SEISMIC ANALYSIS CHARGES FOR 1500 KVA DIESEL GENERATOR SETS & ITS AUXILIARIES FOR KKNPP UNITS - 3 & 4 : Lump Sum Charges towards testing of seismic analysis/qualification (OBE, SSE) of the DG set and its equipment /components, complete in all respects as per Technical specification for the following equipments: 1. 1500KVA DG sets and auxiliaries 2. Electrical Panels along with Bus duct. 3. Independent Fuel Oil Tanks 4. DG platform/foundation	998346	Set	1	3,32,23,584.74	3,32,23,584.74	18
Total						3,32,23,584.74	

(Rupees Three Crore Thirty Two Lakh Twenty Three Thousand Five Hundred Eight Four and Paise Seventy Four Only)


V.K. Iyedi

Associated Director, C&MM

For & on behalf of Nuclear Power Corporation of India Limited
(The Purchaser)

PURCHASE ORDER NO.CMM/MEQ/25-24-2-1188/e-PO/0045

APPENDIX-1 : REFERENCE PARTICULARS

PURCHASER'S REFERENCE

- 1) Our Tender No. CMM/MEQ/25-24-2-1188 (Tender ID: 2023_NPCIL_157000_1) Dtd. 14.06.2023.
- 2) Pre-Bid Meeting held on Dtd. 04.07.2023.
- 3) Pre-bid Clarifications Dtd.23.08.2023 & 09.10.2023.
- 4) Corrigendum-I Dtd.24.08.2023.
- 5) Corrigendum-II Dtd.11.09.2023.
- 6) Corrigendum-III Dtd. 09.10.2023.
- 7) Corrigendum-IV Dtd.18.02.2023.
- 8) Our Letter No. CMM/MEQ/1188 Dtd. 14.12.2023.
- 9) Our Letter No. CMM/MEQ/1188 Dtd. 04.09.2024.
- 10) Minutes of Meeting dtd. 12.11.2024, 29.11.2024 & 13.02.2025.
- 11) Our Letter No. CMM/MEQ/1188 Dtd. 03.04.2025.

CONTRACTOR'S REFERENCE

- 1) Your Offer No. MUM/5/10/23/1651/SAN/LST (Part-I Bid) & MUM/5/10/23/1651/SAN/LST (Part-II Bid) both dated 05.10.2023.
- 2) Your Letter No. MUM/29/06/23/1606/SAN/LST Dtd. 14.01.2024 & email communications dated 02.01.2024 (2 emails), 05.01.2024, 16.01.2024, 06.02.2024 & 20.04.2024.
- 3) Your Letter No. MUM/29/06/23/1606/SAN/LST Dtd. 04.04.2025.



ADVANCE PAYMENT

NUCLEAR POWER CORPORATION OF INDIA LIMITED
(Acting through) Executive Director,
Directorate Of Contracts & Materials Management
NUB, Anushaktinagar, Mumbai-400094.

1. WHEREAS on or about the _____ day of 201_
M/s. _____ a Company registered
under the Companies Act 1956 and having its registered office at

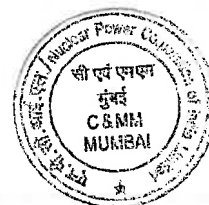
(hereinafter referred to as 'The Contractor') entered into an agreement bearing
No. _____ (hereinafter referred to as 'The Contract'),
with Nuclear Power Corporation of India Limited (A Government of India
Enterprise) acting through Director, Contracts & Material Management (hereinafter
referred to as (Purchaser) for _____
(hereinafter referred to as 'The Equipment').
2. AND WHEREAS under the terms & conditions of the contract an amount of Rs.
_____ (Rupees _____ only) representing
_____ per cent advance payment out of a contract value of Rs _____ (Rupees
_____ only) is to be paid by the Purchaser to the
contractor.
3. AND WHEREAS the Purchaser has agreed in pursuance of the said terms and
conditions of the contract to make an advance payment of Rs. _____ (Rupees
_____ only) to the Contractor on the Contractor furnishing
a Bank Guarantee in the manner herein contained.



4. NOW WE, the _____ (Bank) in consideration of the purchaser having agreed to pay to the contractor an advance payment of Rs, _____ (Rupees _____ only) do hereby agree and undertake to indemnify the Purchaser and keep the Purchaser indemnified to the extent of a sum not exceeding the said sum of Rs. _____ (Rupees _____ only) against any damage or loss that may be suffered by the Purchaser by reason of non-fulfilment of any of the terms and conditions of the contract by the contractor.
5. WE, _____ (Bank) do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from on behalf of Messrs NUCLEAR POWER CORPORATION OF INDIA LTD stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of breach by the said Contractor (s) of any of the terms and conditions contained in the said agreement or by reason of the Contractor(s) 's failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by Bank under this guarantee. However, our liability under this guarantee, shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only .
6. We undertake to pay to the Purchaser any money so demanded not withstanding any dispute or disputes raised by the Contractor (s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder and the Contractor (s) shall have no claim against us for making such payment.



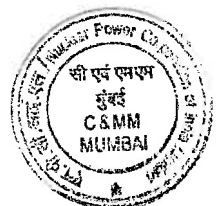
7. AND WE _____ (Bank) hereby further agree that the decision of the said NUCLEAR POWER CORPORATION OF INDIA LTD., as to whether the Contractor has committed breach of any such terms and conditions of the contract or not and as to the amount of damages or loss assessed by the said NUCLEAR POWER CORPORATION OF INDIA LTD., as damage or loss suffered by the Purchaser on account of such breach would be final and binding on us.
8. AND WE _____ (Bank) further agree with the Purchaser that the Purchaser shall have the fullest liberty without our consent and without affection in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extent time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Contractor (s) and to forbear or enforce any of the terms and conditions relating the said agreement and we shall not be relieved form our liability by reason of any such variation or extension being granted to the said contractor (s) or for any forbearance, act or omission on the part of the Purchaser or any indulgence by the Purchaser to the said contractor (s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of relieving us.
9. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor (s).



10. Our guarantee shall remain in force until _____ and unless a claim under the guarantee is lodged with us within three months from that date all rights of the Purchaser under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities, thereunder.
11. Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the bank. Any invocation of the guarantee can be made only by the beneficiary directly.

Dated the _____ day of _____ 201_

For _____
(Indicate the name of the bank)



PERFORMANCE SECURITY BOND

NUCLEAR POWER CORPORATION OF INDIA LIMITED
(Acting through) Executive Director,
Directorate Of Contracts & Materials Management
NUB, Anushaktinagar, Mumbai-400094.

1. WHEREAS on or about the (Date of the Purchase Order)
M/s. _____ a Company
incorporated under the Companies Act 1956 and having its registered office at

(hereinafter referred to as 'The Contractor') entered into an agreement bearing
No. _____ (hereinafter referred to as 'The Contract'),
with Nuclear Power Corporation of India Limited (A Government of India Enterprise)
acting through Director, Contracts & Material Management (hereinafter referred to as
(Purchaser) for supply of _____ (hereinafter
referred to as 'The Equipment').

2. AND WHEREAS under the terms & conditions of the contract, the Contractor shall
furnish Performance Security Bond for an amount of Rs. _____ (Rupees
_____ only) representing 10% of the total value of the
contract in the form of a bank guarantee, in a manner herein contained duly executed
by a scheduled/nationalised bank towards satisfactory performance of the contract and
performance of the equipment and against any loss or damage caused to or suffered or
would be caused to or suffered by the Purchaser by reason of any breach by the said
Contractor(s) of any terms and conditions contained in the said agreement. The
Performance Security Bond shall be valid till satisfactory completion of Defect
Liability Period covering the Warranty/Guarantee period of the equipment as per the
terms & conditions of the said agreement.



3. NOW WE, the _____ (Bank) in consideration of the promises do hereby agree and undertake to pay to the Nuclear Power Corporation of India Limited, (the purchaser) on behalf of the Contractor, the said sum of Rs. _____ (Rupees _____ Only), the amount due and payable under the guarantee without any demur, merely on a demand from the Nuclear Power Corporation of India Limited stating that the amount claimed is due by way of loss or damage caused to, or suffered by, the Purchaser by reason of any breach by the said Contractor of any of the terms and conditions contained in the said agreement or by reason of the contractors failure to perform the said agreement or by reason of unsatisfactory performance of the equipment during the Warranty period. Any such demand, made on the bank, shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only).
4. WE undertake to pay to the Purchaser the said sum of Rs. _____ (Rupees _____ Only), demanded notwithstanding any dispute or disputes raised by the Contractor(s), in any suit or proceedings pending before any Court or Tribunal relating thereto, our liability under this presents being absolute irrevocable and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor shall have to no claim against us for making such payment.
5. WE HEREBY further agree that the decision of the Nuclear Power Corporation of India Limited as to the amount of damages suffered by the Purchaser by reasons(s) of any breach by the said Contractor or whether the said equipment is giving satisfactory



performance or not during the Warranty Period as per the terms and conditions of the said agreement, shall be final and binding on us.

6. AND WE, the _____ (Bank) do hereby further agree that our liability hereunder shall not be discharged by virtue of any agreement between the Purchaser and the Contractor whether with or without our knowledge and/or consent and shall remain in full force and effect during the period that would be taken for the performance of the said agreement or by reason of the Purchaser showing any indulgence or forbearance to the Contractor whether as to payment, time for performance, or any other matter whatsoever relating to the contract, which but for this provision, would amount to discharge of the surety under the law.
7. THIS guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. OUR Guarantee shall remain in force until _____ and unless a claim under the guarantee is lodged with us within three months from the said date, all rights of the Purchaser under the guarantee shall be forfeited and we shall be relieved and discharged from all our liabilities hereunder.
9. Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the bank. Any invocation of the guarantee can be made only by the beneficiary directly.

Dated the _____ day of _____ 201_

For _____

(indicate the Name of bank)



RETENTION BANK GUARANTEE

NUCLEAR POWER CORPORATION OF INDIA LIMITED
 (Acting through) Executive Director,
 Contracts & Materials Management
 Nabhikiya Urja Bhavan,
 Anushaktinagar,
 Mumbai - 400 094.

1. WHEREAS on or about the _____ day of _____ M/s. _____ a Company registered under the Companies Act 1956 and having its registered office at _____ (hereinafter referred to as 'The Contractor') entered into an agreement bearing No. _____ dtd. _____ (hereinafter referred to as the 'The Contract'), with Nuclear Power Corporation of India Limited (acting through Executive Director, Contracts & Materials Management Group) (hereinafter referred to as the 'The Purchaser') for supply of _____ (hereinafter referred to as 'The Equipment').
2. AND WHEREAS under the terms and conditions of the contract balance 10% payment is to be made against _____ and on the supplier furnishing a retention bank guarantee for Rs. _____ (Rupees _____ only) representing 10% of the contract value in the manner herein contained.
3. NOW WE, (Bank) _____ in consideration of the Purchaser having agreed to pay to the Contractor balance payment of Rs. _____ (Rupees _____ only) do hereby agree and undertake to indemnify the Purchaser and keep the Purchaser indemnified to the extent of a sum not exceeding the said sum of Rs. _____ (Rupees _____ only) against any damage or loss that may be suffered by the Purchaser by reason of non fulfillment of any of the terms and conditions of the contract by the CONTRACTOR.
4. WE, the (Bank) _____, do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the EXECUTIVE DIRECTOR, CONTRACTS AND MATERIALS MANAGEMENT on behalf of M/s. NUCLEAR POWER CORPORATION OF INDIA LIMITED stating that the amount claimed is due byway of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of breach by the said Contractor of any of the terms and conditions contained in the said agreement or by reason of the Contractor(s) failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only).



5. We undertake to pay to the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s), in any suit or proceedings pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
6. AND WE, the (Bank) _____, hereby further agree that the decision of the said EXECUTIVE DIRECTOR, CONTRACTS AND MATERIALS MANAGEMENT GROUP, NUCLEAR POWER CORPORATION OF INDIA LIMITED as to whether the Contractor has committed breach of any such terms and conditions of the contract or not and as to the amount of damages or loss assessed by the said EXECUTIVE DIRECTOR, CONTRACTS AND MATERIALS MANAGEMENT GROUP, NUCLEAR POWER CORPORATION OF INDIA LIMITED as damage or loss suffered by the Purchaser on account of such breach would be final and binding on us.
7. WE, the (Bank) _____, further agree with the Purchaser that the Purchaser shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Contractor and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variations or extensions being granted to the said Contractor or for any forbearance, act or omission on the part of the Purchaser or any indulgence by the Purchaser to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision have effect of relieving us.
8. THIS GUARANTEE will not be discharged due to the change in the constitution of the Bank of the Contractor(s)/Supplier(s).
9. Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the bank. Any invocation of the guarantee can be made only by the beneficiary directly.

NOTWITHSTANDING ANYTHING CONTAINED herein above, our liability under this guarantee is restricted to Rs. _____ (Rupees _____ only). Our guarantee shall remain in force for a period of three months from the date of the bank guarantee i.e. up to _____ and unless a claim under the guarantee is lodged within the above date, all rights of the Purchaser under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities under this guarantee there under.

Dated the _____ day of _____ 201__

For _____
(Indicate the name of the Bank)



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0045

ANNEXURE – F

PO. No. Invoice No. & Date.....

Declaration Form for GST

The Supplier/Contractor while submitting their bill to the Paying Authority shall furnish the following certificates:

Certified that:

- (a) Additional Input Tax Credit under GST availed against invoices submitted here under is Rs.
- (b) Certified that the goods and services on which GST has been charged are not exempted under the GST Act or the rules made there under and the amount charged on account of GST on these goods and services are not more than what is payable under the relevant act or the rules there under.
- (c) Certified that we have taken into account all input tax credits available under GST and have not loaded the same in the basic price while furnishing their bids.
- (d) Certified that in respect of amount of taxes claimed in the bill no claim is pending for refund/or is admissible for refund from any other agency and /or no other tax credit is available in respect of the same. In the event of getting refund in whole or in part of the element of GST claimed from Government, the same shall be passed on the benefit to the Purchaser by remitting the amount equivalent to the amount of refund obtained.
- (e) Certified that the GST charged herein the invoices has been/ shall be deposited within the due date and the Invoice details have been / shall be populated in GSTR1/ANX-1 of the GSTN portal facilitating Input Tax Credit to the Purchaser.
- (f) Certified that we have complied with the Anti-profiteering measure provisions under CGST/SGST/UTGST Acts and passed on commensurate reduction of price to the purchaser.
- (g) Certified that a quarterly statement shall be submitted to NPCIL confirming the payment of GST invoiced on NPCIL along with copy of GST paid Challan.
- (h) Certified that in case of any change in the Invoice which has been accepted by the Purchaser in the IMS Portal, the corresponding amendment in the Original Invoice shall be made by the Supplier/Contractor, by raising Debit Note/Credit Note or any other document, as applicable, within the timelines stipulated under the GST Act.

Declaration Form for TDS

The Supplier/Contractor while submitting their bill to the Paying Authority shall furnish the following certificates:

Certified that:

- (a) Whether Provisions of Section 194Q are applicable (For Supply of Goods worth 50 Lakhs p.a.): YES/NO
- (b) We have filed the return of income for the previous year (AY _____) preceding the year in which tax is liable to be deducted, within the prescribed time limit and hence, confirm that applicable rate of TDS is at Normal Rate .
- (c) We have linked the PAN to Aadhar and the PAN is not inoperative (applicable in case of Individuals)

Incomplete information against point (a), (b) & (c) above under Declaration form for TDS, shall be subject to deduction of tax at higher rate as applicable (5% as on date)

Signature of Contractor or their Authorized Representative with company seal.



(To be submitted in Non-judicial stamp paper of Appropriate Value)

LATENT DEFECTS BOND

NUCLEAR POWER CORPORATION OF INDIA LIMITED
(Acting through) Executive Director,
Directorate of Contracts & Materials Management
NUB, Anushaktinagar,
Mumbai-400094.

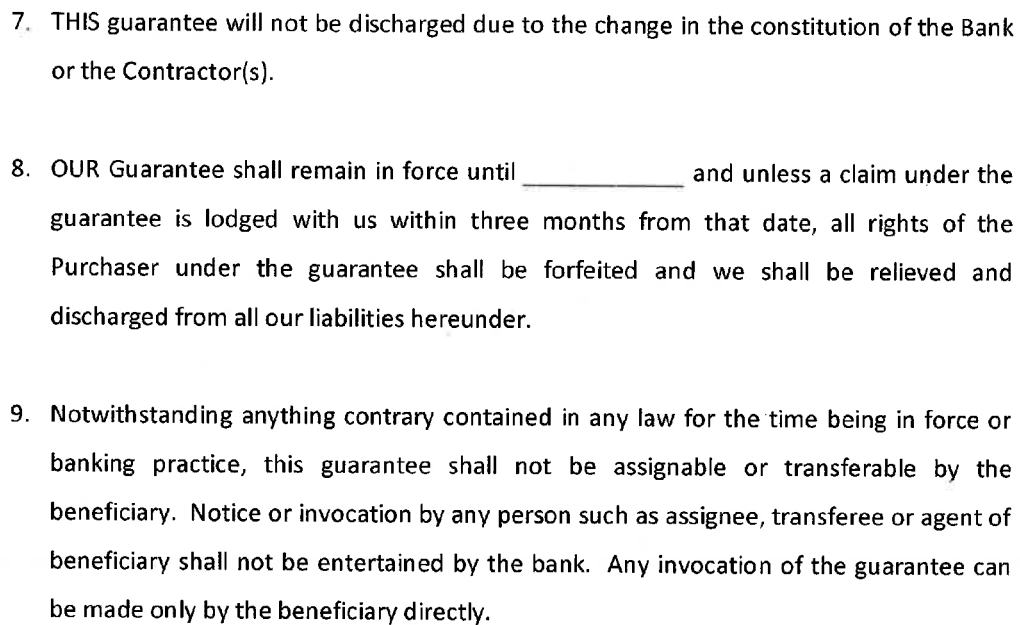
1. WHEREAS on or about the _____ (Date of purchase order) day of _____ 201_ M/s. _____ a Company under the Companies Act, 1956 and _____ having its registered office at _____ (hereinafter referred to as 'The Contractor') entered into an agreement bearing No. _____ dated _____ (hereinafter referred to as 'The Contract'), with Nuclear Power Corporation of India Ltd. (A Government of India Enterprise) acting through Executive Director, Directorate of Contracts & Materials Management (hereinafter referred to as 'Purchaser') for supply of _____ (hereinafter referred to as 'The Equipment').
2. AND WHEREAS under the terms and conditions of the contract a Bank Guarantee towards Performance Security Bond is to be released to the contractor on furnishing a Bank Guarantee for an amount of Rs. _____ (Rupees _____ only) representing ONE percent payment out of the total value of goods supplied i.e. Rs. _____ (Rupees _____ only) in a manner herein contained duly executed by a Scheduled/Nationalised bank towards satisfactory performance of the equipment during Latent Defect Liability Period viz. 60 months from the date of completion of Defect Liability Period as defined in the conditions of the contract.
3. NOW WE, the _____ (Bank) in consideration of the promises and the payment of the said sum of Rs. _____ (Rupees _____ only) by the Purchaser to the Contractor do hereby agree and undertake to pay to the Nuclear Power Corporation of India Limited, on behalf of the Contractor, the amount due and



payable under the guarantee without any demur, merely on a demand from the Nuclear Power Corporation of India Limited, stating that the amount claimed is due by way of loss or damage caused to, or suffered by, the Purchaser by reason of unsatisfactory performance of the equipment during the Latent Defect Liability Period. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only)

4. We undertake to pay to the Purchaser any money demanded notwithstanding any dispute or disputes raised by the Contractors, in any suit proceedings pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under the bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.
5. WE HEREBY further agree that the decision of the Nuclear Power Corporation of India Limited as to whether the said equipment is giving satisfactory performance or not during the Latent Defect Liability Period and as to the amount of damages suffered by the Purchaser on account of unsatisfactory performance of the said equipment shall be final and binding on us.
6. AND WE, the _____ (Bank) do hereby agree that our liability herein under shall not be discharged by virtue of any agreement between the Purchaser and the Contractor whether with or without our knowledge and/or consent or by reason of the Purchaser showing any indulgence or forbearance to the Contractor whether as to payment, time for performance, or any other matter whatsoever relating to the contract, which but for this provision, would amount to discharge of the surety under the law.







न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

NUCLEAR POWER CORPORATION OF INDIA LIMITED

(A Govt. of India Enterprise)

(CIN : U40104MH1987GOI149458)



संविदा एवं सामग्री प्रबंधन निदेशालय
नाभिकीय ऊर्जा भवन,
ए-'O' ब्लॉक, तलमाला,
अणुशक्तिनगर, मुंबई - 400 094.
दुरभाष: 2599 3000 / 2599 1000
फैक्स: 91-22-2558 0741



DIRECTORATE OF CONTRACTS & MATERIALS MANAGEMENT

Nabhikiya Urja Bhavan,
A-'O' Block, Ground Floor,
Anushaktinagar, Mumbai - 400 094.
Tel.: 2599 3000 / 2599 1000
Fax : 91-22-25580741

संदर्भ Ref.:CMM/MEQ/25-24-2-1188

दिनांक Date : 9 MAY 2025

M/s. Powerica Limited,
Bakhtawar, 9th Floor,
Nariman Point,
Mumbai - 400 021.
E-mail: sanjay.kulkarni@powericaltd.com

विषय Sub.: क्रय आदेश क्र. / PO No. CMM/MEQ/25-24-2-1188/e-PO/0046 (E&C) Dtd. 09.05.2025

महोदय Dear Sir,

इस पत्र के साथ क्रय आदेश क्र. / Please find attached herewith Purchase Order No: CMM/MEQ/25-24-2-1188/e-PO/0046 (E&C) Dtd. 09.05.2025 संलग्न है।

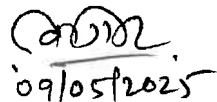
कृपया प्राप्ति की रसीद दें।

Kindly acknowledge receipt.

यह पत्र विषयांतर्गत क्रय आदेश के संबंध में हमारे अधिकारों के प्रति पूर्वाग्रह के बिना जारी किया गया है।

This is however issued without prejudice to our rights under the subject Contract.

धन्यवाद Thanking you.


09/05/2025
(वि. के. त्रिवेदी V.K. Trivedi)
सह निदेशक AD (सीएंडएमएम C&MM)

संलग्न Enclosed: उपरोक्तानुसार as above



न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

NUCLEAR POWER CORPORATION OF INDIA LIMITED

(A Govt. of India Enterprise)

(CIN : U40104MH1987GOI149458)



संविदा एवं सामग्री प्रबंधन निदेशालय
नाभिकीय ऊर्जा भवन,
ए-'O' ब्लॉक, तलमाला,
अणुशक्तिनगर, मुंबई - 400 094.
दुरभाष: 2599 3000 / 2599 1000
फैक्स: 91-22-2558 0741



DIRECTORATE OF CONTRACTS & MATERIALS MANAGEMENT

Nabhikiya Urja Bhavan,
A-'O' Block, Ground Floor,
Anushaktinagar, Mumbai - 400 094.
Tel.: 2599 3000 / 2599 1000
Fax : 91-22-25580741

PURCHASE ORDER No.: CMM/MEQ/25-24-2-1188/c-PO/0046

Date **9 MAY 2025**

To,

M/s. Powerica Limited,
Bakhtawar, 9th Floor,
Nariman Point,
Mumbai – 400 021.

Project : KKNPP-3&4	
IAEA Code No.: 242.1	
MSE Details	
Status	NA
Type	NA
Category	NA

E-mail: sanjay.kulkarni@powericaltd.com

Dear Sirs,

Your offer contained in the Tender No. CMM/MEQ/25-24-2-1188 to supply the under-mentioned Stores is accepted for and on behalf of Nuclear Power Corporation of India Ltd., subject to the General Conditions of Contract for Engineering, Procurement and Construction Contracts, detailed in the Form No. GCC/EPC-4/Rev.4 entitled "General Conditions of Contract for Engineering, Procurement and Construction Contracts" applicable to the contracts for indigenous stores placed by the Nuclear Power Corporation of India Ltd., (A Government of India Enterprise) and subject to the terms and conditions contained in the Purchase Order, to the extent of the quantity and at the price specified below:

Sl.No.	Description	Quantity	Unit	Rate	Value
1.0	Site Handling, Unloading & Loading, Erection & Commissioning works and Civil works of 1500kVA, 400V, 0.8pf, 50Hz 3 phase DG Set along with its auxiliaries for Design Extension Condition (DEC) at KKNPP-3&4, complete in all respects as per technical specifications forwarded along with Tender No. CMM/MEQ/25-24-2-1188 and further described in the following:- SECTION-A : Items and Price Schedule SECTION-B : Commercial Terms and Conditions: Basis of price, Statutory levies, Delivery schedule, Terms of Payment, etc. SECTION-C : Technical Specifications Annexure-1 : Break - up Price schedule for Civil Works Annexure-2 : Break - up Price schedule for Erection & Commissioning Works Annexure A-I : Projects Instructions on Safety Regulations for Safety at site. Annexure A-II : Projects Instructions on House Keeping Regulations for House-keeping at site. Annexure A-III : Projects Instructions on Preservation Regulations for Preservation at site. Appendix-1 : Reference Particulars Annexure-A : Format for 'Advance Bank Guarantee' Annexure-B : Format for 'Performance Security Bond' Annexure-C : Format for 'Retention Bank Guarantee' Annexure-F : Format for 'Certificate towards Goods and Services Tax & TDS Declaration'.	As in Section- A	As in Section- A	As in Section- A	As in Section- A

cont.....

पंजीकृत कार्यालय: 16 वी मंजिल, सेंटर-1, वर्ल्ड ट्रेड सेंटर, कफ परेड, कुलाबा, मुंबई - 400 005
Regd. Office : 16th Floor, Center-1, World Trade Centre, Cuffe Parade, Colaba, Mumbai - 400 005
Visit us at : www.npcil.nic.in

PURCHASE ORDER No. CMM/MEQ/25-24-2-1188/e-PO/0046

Our GST No.: (For KKNPP, Tamil Nadu - 33AAACN3154F2ZW)

Prices: As per Section-B.
Delivery Period: As per Section-B.
Place of Delivery: As per Section-B.

General Conditions of Contract for Engineering, Procurement and Construction Contracts, applicable to Contracts for Indigenous Stores, placed by Nuclear Power Corporation of India Ltd., (A Government of India Enterprise) detailed in Form No. GCC/EPC-4/Rev.4, and this Purchase Order shall be the sole repository of the Contract.

Please acknowledge receipt immediately.

Yours faithfully,



09/05/2025
(V. K. Trivedi)

Associate Director, C&MM

For & on behalf of Nuclear Power Corporation Of India Ltd.
(The Purchaser)

Important:

1. Bills should be submitted in triplicate to the Paying Authority at the address as indicated in the Purchase Order alongwith all relevant Documents and as specified in this Purchase Order.

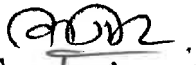
Delivery Instructions:

1. Stores are to be delivered at the place of delivery stipulated in this Purchase Order on any working day between 10.30 a.m. and 3.00 p.m.
2. No Stores shall be accepted by the Stores unless Delivery Challan giving full details of the Purchase Order No. and Date, Description of Stores, Quantity, Make, Unit and Gross Weight or Net Weight is submitted with the Stores. In absence of any of the above, the Store-keeper shall refuse to take delivery of the Stores.

SECTION-A: ITEMS AND PRICE SCHEDULE

Sr.No.	Description	Quantity	Total Price INR (₹)
1.0	Site Handling, Unloading & Loading, Erection & Commissioning works and Civil works of 1500kVA, 400V, 0.8pf, 50Hz 3 phase DG Set along with its auxiliaries for Design Extension Condition (DEC) at KKNPP-3&4, complete in all respects as per technical specifications forwarded along with Tender No. CMM/MEQ/25-24-2-1188 and further described in the following:-	-	-
1.1	Civil Works	As per Annexure-1	3,38,74,248
1.2	Erection & Commissioning Works	As per Annexure-2	1,35,95,016
TOTAL :			4,74,69,264

(INR FOUR CRORE SEVENTY FOUR LAKH SIXTY NINE THOUSAND TWO HUNDRED SIXTY FOUR ONLY)


'09/05/2025

(V. K. Trivedi)

Associate Director, C&MM

For & on behalf of Nuclear Power Corporation of India Ltd.
(The Purchaser)

SECTION-B : COMMERCIAL TERMS AND CONDITIONS

BASIS OF PRICE, STATUTORY LEVIES, DELIVERY SCHEDULE, TERMS OF PAYMENT ETC.

1.0 PRICE BASIS

- 1.1 The Prices stipulated under Section-A of the Purchase Order are for Civil works and Erection & Commissioning of Diesel Generator Set & its Auxiliaries for KKNPP UNITS – 3 & 4 Site inclusive of storage, handling, loading/unloading, insurance charges, Goods & Services Tax (GST) and all other indirect taxes.
- 1.2 The Prices indicated in Section-A shall remain firm throughout the currency of the contract.
- 1.3 This is a lump sum contract and as such the responsibility for inclusion and supply of all the items required to meet the intent of the complete package lies with the Contractor within the stated contract price in Section-A of this Purchase Order.
- 1.3.1 Contractor shall submit detailed breakup price schedule after completion of detailed engineering, this detailed breakup of items and prices shall be considered as bill of quantities (BOQ). In case of requirement of any additional items/quantities beyond this BOQ to complete the facilities as per the scope of the Tender, the prices of such additional items/quantities are deemed to have been included in the Contract Price and as such additional price implications if any, are to be absorbed by the Contractor. However, if any of the quantities/items delivered as per this BOQ are found to be excess on completion and handing over of the facilities, such items shall remain to be the property of the Purchaser.
- 1.3.2 In case the Contractor brings in some items in excess of the quantities/items mentioned in the BOQ to meet the exigencies of the Site works, all such excess items if left over after the execution of the contract, are allowed to be taken back by the Contractor.

2.0 TAXES AND DUTIES

2.1 Indirect Taxes and Duties

- 2.1.1 The prices stipulated in Section-A are inclusive of Goods and Services Tax (GST) and any other Indian Indirect Taxes payable in India for the final product / services.
- 2.1.2 Contractor shall be responsible for payment of all Indian Taxes, Duties including IGST on imports, if any, and all other statutory levies as applicable in connection with supply of the Stores.



Purchase Order No. CMM/MEQ/25-24-2-1188/e-PO/0046

- 2.1.3 In case of increase in existing taxes/duties and/or introduction of any other new indirect taxes / cess, if levied by Government during the contractual delivery period, the incremental rate of existing taxes/levies and/or any other new indirect taxes/cess, shall be reimbursed / paid by the Purchaser upon verification of the documentary evidences submitted and its acceptance by the purchaser. This provision shall not apply to changes in Personal Income Tax or Corporate Income tax or to changes in non-Indian Taxes.
- 2.1.4 For extension in the contractual delivery period for the reasons attributable to the Purchaser and/or Force Majeure, increase in existing taxes & duties, if any, and new tax component introduced in the extended period shall be reimbursed to the Contractor subject to the submissions of necessary documentary evidence. No increase / new tax shall be payable during the delay period due to reasons attributable to the Contractor.
- 2.1.5 GST on Liquidated Damages (LD), as applicable, shall be to the account of the Contractor and shall be recovered from payments due to the Contractor.
- 2.1.6 The provisions of the Central Goods and Services Tax Act 2017 (CGST), the Integrated Goods and Services Tax Act 2017 (IGST), the relevant SGST act of the State Government, the Union Territories Goods and Services Tax Act 2017 (UTGST) and the Goods and Services Compensation to States Tax Act 2017 and their Rules as being enacted and amended from time to time are applicable to this Contract. Accordingly the Contractor has confirmed that all input tax credits and the exemptions available therein are passed on to the Purchaser.
- 2.1.7 GST as applicable or quoted, whichever is lower will be reimbursed by Purchaser limiting to the rate prevailing within the contractual delivery schedule.
- 2.1.8 While claiming the GST, the Contractor is required to adhere to the provisions available therein. The Contractors are required to populate the details of GST paid by them in the GST portal, only upon which reimbursement of GST would be considered.
- 2.1.9 When GST is claimed by the Contractor a certificate as per Annexure F should be submitted to the paying authority with their invoices.
- 2.1.10 The Purchaser shall, at the time of its payments due to the Contractor, withhold the necessary tax at source at such rate if required under the legislation unless and to the extent that the Contractor shall produce to the Purchaser any certificate issued by a Government Authority (having authority to issue such certificate) entitling the Contractor to receive the payments under the Contract for a prescribed period without deduction of any tax or deduction at a lower rate.
- 2.1.11 In case of such deduction as mentioned above, the Purchaser shall provide the necessary withholding tax certificates to the Contractor within the time stipulated by the relevant law to enable the Contractor to file the same with the Government Authority as a proof of payment of such taxes.



Purchase Order No. CMM/MEQ/25-24-2-1188/c-PO/0046

2.1.12 Contractor's G.S.T. Regn. No. is 27AAACP3812E1ZT, 26AAACP3812E1ZV, 29AAACP3812E1ZP, 33AAACP3812E1Z0.

2.2 Direct Tax:- Tax Deduction at Source

2.2.1 The Purchaser shall have the right to withhold taxes on income, excess profits, royalty and other taxes from payments due to Contractor under this Contract to the extent that such withholding may be required by the government of India or any relevant authority thereof or by the government of any other country, and payment by the Purchaser to the respective governmental office of the amount of money so withheld will relieve the Purchaser from any further obligation to Contractor with respect to the amount so withheld.

2.2.2 The Purchaser shall, at the time of its payments due to the contractor, withhold the necessary taxes at such rate as is required by any Government Authority, unless and to the extent that the Contractor shall produce to the Purchaser any certificate issued by a Government Authority (having authority to issue such certificate) entitling the Contractor to receive the payments under the Contract for a prescribed period without deduction of any tax or deduction at a lower rate.

2.2.3 The Purchaser shall provide the necessary withholding tax certificates to the Contractor within the time stipulated by the relevant law to enable the contractor to file the same with the Government Authority as a proof of payment of such taxes.

2.2.4 All taxes levied on Contractor's corporate income or profits shall be for the account of Contractor and shall not be reimbursed by the Purchaser. Contractor shall also be responsible for payment of income taxes of its personnel levied in India or elsewhere.

2.3 Indirect Tax-Tax Deduction at source

2.3.1 The Purchaser shall, at the time of its payments due to the Contractor, withhold the necessary tax at source at such rate if required under the legislation unless and to the extent that the Contractor shall produce to the Purchaser any certificate issued by a Government Authority (having authority to issue such certificate) entitling the Contractor to receive the payments under the Contract for a prescribed period without deduction of any tax or deduction at a lower rate.

2.3.2 In case of such deductions as mentioned above, the Purchaser shall provide the necessary withholding tax certificates to the Contractor within the time stipulated by the relevant law to enable the Contractor to file the same with the Government Authority as a proof of payment of such taxes.

3.0 SITE WORK

3.1 Civil Works, Erection, Commissioning, Performance testing and Handing over of the facility shall be carried out at **Kudankulam Nuclear Power Project-3&4**, Plant Site, P.O. Kudankulam, Taluka : Radhapuram, Dist : Tirunelveli, Tamil Nadu, Pin – 627106.



Purchase Order No. CMM/MEQ/25-24-2-1188/e-PO/0046

- 3.2 The Contractor shall prepare and submit all erection schedules, procedures, quality assurance plan, drawings, quality plans as specified in the tender specification for approval to:-

Chief Construction Engineer
Kudankulam Nuclear Power Project-3&4,
Plant Site, P.O. Kudankulam,
Taluka : Radhapuram, Dist : Tirunelveli,
Tamil Nadu, Pin – 627106.

- 3.3 All works covered under this Purchase Order shall be subject to overall supervision of Chief Construction Engineer, Kudankulam Nuclear Power Project-3&4, or his authorized representative, as contained in GCC/EPC-4/R-4 and Special Conditions of Contract (SCC).
- 3.4 The Contractor has to make their own arrangement for construction water supply, power supply as indicated in Clause no: 11.4 & 11.5 of GCC and Clause nos. 10 & 11 of SCC. Electrical power supply (as per Clause no 11.5 of GCC) may be provided to the contractor on chargeable basis subject to availability at rates as indicated in SCC clause no.11.
- 3.5 The Contractor shall follow the guidelines/procedure, enclosed in the Tender document & instructions from site authority for movement of manpower & vehicles in Plant premises.
- 3.6 Dewatering of all work areas during execution of work shall be done by the package contractor till the system is handed over.

4.0 QUALITY SURVEILLANCE

- 4.1 It is the responsibility of the Contractor to ensure compliance with the quality assurance requirement stipulated in the Tender document during Erection, Testing, Commissioning, Civil works. For this purpose, Contractor shall have appropriate quality assurance organisation and depute personnel with requisite qualification to carry out inspection /quality surveillance for the entire work carried out at site during erection, testing, commissioning, civil works.
- 4.2 However, the work will be subject to Quality Surveillance by the Purchaser's authorised representative, for which the Contractor shall contact :

Chief Engineer (Quality Assurance)
Kudankulam Nuclear Power Project-3&4,
Plant Site, P.O. Kudankulam,
Taluka : Radhapuram, Dist : Tirunelveli,
Tamil Nadu, Pin – 627106.

- 4.3 Purchaser reserves the right to carry out audit of the activities of the Contractor/Sub-contractors at their works/premises.



4.4 Any changes to the approved QA plans by the Purchaser shall be mutually discussed and agreed upon.

4.5 E-mail ID for Quality Assurance Office: edqa@npcil.co.in, Ph No. 022-25995030.

5.0 CONTRACTUAL DELIVERY SCHEDULE

5.1 The completion of Supply, Erection, Testing, Commissioning, Civil Works and Handing over in acceptable condition of facilities covered in this Contract shall be completed as under:-

Clause No.	Activity	Contractual Delivery Schedule
5.1.1	DG Set along with its auxiliaries for Design Extension Condition (DEC) complete in all respects as per technical specifications for KKNPP Unit – 3 along with Mandatory & Essential Spares for KKNPP Unit 3&4.	19 months from the date of Purchase Order i.e. on or before: 8 DEC 2026
5.1.2	DG Set along with its auxiliaries for Design Extension Condition (DEC) complete in all respects as per technical specifications for KKNPP Unit – 4.	27 months from the date of Purchase Order i.e. on or before: 8 AUG 2027

5.2 In case the Contractor fails to apply and secure extension of contractual delivery schedule indicated in Sr. No. 5.1 above, acceptance of facility by the Purchaser will in no way prejudice the right of the Purchaser to levy liquidated damages for delays nor will it entitle contractor for payment of additional statutory levies that comes into force after the expiry of the contractual delivery schedule.

5.3 As soon as the Contractor is ready for carrying out the erection & commissioning, Chief Construction Engineer, Kudankulam Nuclear Power Project-3&4 or his authorized representative shall be contacted for release of work front.

6.0 DEFECT LIABILITY PERIOD

6.1 Items/Equipment/System

6.1.1 The defect liability period shall be 18 months from the date of completion of facilities (satisfactory erection & pre-commissioning) or 12 months from the date of Operational Acceptance of Facilities (Commissioning) whichever occurs first for each Reactor Unit. i.e. KKNPP-3 or KKNPP-4.



Purchase Order No. CMM/MEQ/25-24-2-1188/e-PO/0046

7.0 PERFORMANCE SECURITY BOND (SECURITY DEPOSIT CUM PERFORMANCE BOND)

- 7.1 The Contractor shall furnish a Performance Security Bond, as detailed below, for **10%** of the Purchase Order value covering the total scope of work i.e. Supply, Erection & Commissioning, Civil Works under PO No. CMM/MEQ/25-24-2-1188/e-PO/0045 for Supply Contract and PO No. CMM/MEQ/25-24-2-1188/e-PO/0046 for Erection & Commissioning Contract in the form of a Bank Guarantee / Insurance Surety Bond as per prescribed format within 30 days from the date of issue of this Purchase Order and it shall be valid till satisfactory completion of defect liability period plus a grace period of 3 Months.

Item Description	Value of Performance Security Bond	Valid upto
DG Set along with its auxiliaries for Design Extension Condition (DEC) complete in all respects as per technical specifications for KKNPP-3&4.	INR 2,77,95,418/- (Rupees Two Crore Seventy Seven Lakh Ninety Five Thousand Four Hundred Eighteen Only)	8 FEB 2029 ----- Plus Three Months Grace Period

- 7.2 The Performance Security Bond Bank Guarantee / Insurance Surety Bond shall be released, on successful completion of Defect Liability Period including extension thereof, if any, and on submission of bank guarantee for Latent Defect Security as per **Clause No. 21.0 of PO No. CMM/MEQ/25-24-2-1188/e-PO/0045.**
- 7.3 The above Performance Security Bond shall be furnished against the Purchase Order No. **CMM/MEQ/25-24-2-1188/e-PO/0045– Supply Contract.**

8.0 UNLOADING AND STORAGE AT SITE

- 8.1 Unloading at site shall be done by the Contractor at his own cost. However, Contractor shall intimate the Consignee the following details by fax / e-mail in advance:
- (i) Carrier's Name
 - (ii) Truck No.
 - (iii) Lorry Receipt No. and date.
 - (iv) Approx. time of arrival of truck at site.
 - (v) No. of packages and dimensions and weight of each package etc.
- 8.2 The Contractor shall arrange loading/unloading, handling, site transportation for materials covered under this purchase order and also for the materials, plant and machinery supplied against **Purchase Order No. CMM/MEQ/25-24-2-1188/e-PO/0045 for Supply Contract** and also shall arrange suitable storage and preservation of the items at site at his cost till its erection and shall be responsible for safe storage and preservation of these items and shall also arrange necessary watch and ward etc. at his own cost till handing over the facilities. Further, the responsibility for care and custody thereof together with the risk of loss or damage thereto shall remain with the contractor until completion of facilities and handing over.



- 8.3 The Contractor shall take all necessary precautions against any loss, deterioration or destruction of the materials from whatever cause arising whilst the said materials remain in their possession and or their custody or control. They shall also not mix up the materials in question with any of their goods and shall render true and proper account of the material actually used and return the balance remaining on hand unused along with the usable off-cuts, if any, within a period of one month from the date of completion of facilities covered by this Purchase Order, unless or otherwise stated specifically in the tender specifications or in this purchase order. The decision of the Executive Director, Contracts & Materials Management Group, NPCIL, Mumbai as to whether the Contractor have occasioned any loss, deterioration or destruction of the materials whilst in their possession, custody or control from whatever cause arising as also the decision regarding quantum of the damages suffered by the Purchaser shall be final and binding upon the Contractor.

9.0 TERMS OF PAYMENT

- NOTE:**
- 1) **Advance payments will be interest-bearing at the applicable rate as notified by NPCIL on the first of April each year.
The rate of interest for the financial year, FY 2025-26, is 10.14% p.a.**
 - 2) **Upon completion of the activity/milestone, payment will be released after adjusting advance payments and interest accrued.**
 - 3) **Unless otherwise stipulated, interest shall be calculated on advances from the date of release until the preceding day of recovery from the bills.**

9.1 For Civil Works (Sr. No. 1.1 of Section-A)

- 9.1.1 10% of Civil Works Prices (inclusive of applicable taxes and duties) will be released as advance towards site mobilization on accomplishment of following activities:

- i) Facilities required, as applicable, to commence the civil works
- ii) Submission of detailed schedule of activities covering site mobilization, deployment of manpower, machineries, tools and tackles etc. in consultation with NPCIL for carrying out civil works.
- iii) Deployment of plant, machinery and manpower required for the commencement of work as per agreed resource deployment schedule, for carrying out civil works

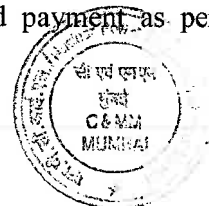
and against submission of following documents:-

- a. Invoice of contractor. (1 Original + 2 Copies).
- b. Unconditional Purchase order acceptance.
- c. A Bank Guarantee of equivalent amount valid till contractual delivery schedule with claim period of 3 months.
- d. Performance Security Bond Guarantee as per Clause no. 7.0.



Purchase Order No. CMM/MEQ/25-24-2-1188/e-PO/0046

- e. Copy of Insurance Policies / Certificate of Insurance as per Clause No. 12.0 and Clause No.15.0.
 - f. A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorized representative stating that Contractor has satisfactorily completed Site Mobilization activities as indicated in clause no.9.1.1 and payment as per clause no. 9.1.1 can be released.
 - g. Declaration Form as per Annexure-F.
- 9.1.2 77% of Civil Works Prices (inclusive of taxes and duties) will be released on pro-rata basis against completion of 'Civil Works', as given in schedule of quantities & rates (SOQR) for Civil works (Annexure-1) and on submission of following documents:
- a. Invoice of contractor.(1 Original + 2 Copies).
 - b. A Certificate issued by Chief Construction Engineer, KKNPP 3&4 or his authorized representative stating that Contractor has satisfactorily completed Civil Works as per Annexure-1 & payment as per clause no. 9.1.2 can be released.
 - c. Declaration Form as per Annexure-F.
- 9.1.3 2% of Civil Works Prices (inclusive of applicable taxes and duties) will be released on pro-rata basis subject to recovery as per A – I to P.O on 'Project Instructions on Safety at Site for EPC Packages' /'Contract Conditions for Industrial Safety' appended to GCC and on submission of following documents:
- a. Invoice of contractor. (1 Original + 2 Copies).
 - b. A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorized representative stating that contractor has satisfactorily completed works w.r.t. conditions for safety, report submitted, approved and payment as per clause no. 9.1.3 can be released.
 - c. Declaration Form as per Annexure-F.
- 9.1.4 1% of Civil Works Prices (inclusive of applicable taxes and duties) will be released on pro-rata basis subject to recovery as per Annexure – A – II to P.O on 'Project Instructions for House Keeping at Site' for EPC Packages and on submission of following documents:
- a. Invoice of contractor. (1 Original + 2 Copies).
 - b. A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorised representative stating that contractor has satisfactorily completed works w.r.t. conditions for House Keeping, report submitted, approved and payment as per clause no.9.1.4 can be released.



Purchase Order No. CMM/MEQ/25-24-2-1188/c-PO/0046

c. Declaration Form as per Annexure-F.

9.1.5 10 % of Civil Works Prices (inclusive of applicable Taxes & Duties) will be released on handing over of the facilities to the Purchaser and issue of Operational Acceptance Certificate for each Reactor Unit and on submission of following documents:

- a. Invoice of contractor. (1 Original + 2 Copies).
- b. A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorised representative stating that Contractor has satisfactorily completed handing over of the facilities to the Purchaser and Operational Acceptance Certificate has been issued and payment as per clause no.9.1.5 can be released.
- c. Declaration Form as per Annexure-F.

9.1.6 In the event of delay in attaining the events pertaining to Clause No. 9.1.5 above, for reasons attributable to the purchaser, the corresponding payments can be released to the contractor on expiry of original CDD against Retention bank guarantee as per format given in Annexure-C, initially valid for six months plus three months claim period and subsequently extendable till completion of the corresponding events. In addition to be encashable for failure of the contractor to fulfil his contractual obligations covered by the Retention Bank guarantee, this Bank guarantee shall also be encashable for the purpose of recovery of LD, if any, along with applicable GST, pursuant to GCC clause no.6.2 (Delay in Supply)

9.1.7 On submission this retention Bank Guarantee, it shall be deemed and construed that the contractor has authorized the Purchaser to encash the Retention Bank Guarantee, for recovery of any amount whatsoever it may be, in general and for recovery of liquidated damages (LD) in particular due to failure on the part of contractor to fulfill its part of obligation. The decision of NPCIL, in this regard, shall be final and binding.

For all the above Payment terms the following is applicable:

Note:- Chief Construction Engineer or his authorized representative shall ensure validity, extension and appropriate risk coverage etc. of Insurance Policy as per Clause No. 12.0 and 15.0 before releasing each stage payment and certificate to this effect.

9.2 For Erection & Commissioning (Sr. No. 1.2 of Section-A)

9.2.1 10% of Erection & Commissioning Prices (inclusive of applicable taxes and duties) will be released as advance towards Site mobilization on accomplishment of the following activities:

- i) Site Office Set up for staff with facilities for sitting, document storage, drawing, computers, first aid facilities etc., as applicable
- ii) Closed / Semi closed and open storage facilities, as applicable.
- iii) Water storage facility, as applicable
- iv) Deployment of key manpower like Works Manager



Purchase Order No. CMM/MEQ/25-24-2-1188/e-PO/0046

- v) Submission of detailed schedule of activities covering site mobilization, deployment of manpower, machineries, tools and tackles etc. in consultation with NPCIL.
- vi) Deployment of plant, machinery and manpower required for the commencement of work as per agreed resource deployment schedule.
- vii) Deployment of QA Engineer / Supervisor and Safety Engineer / Supervisor

and against submission of following documents:-

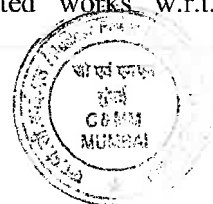
- 1) Invoice of contractor. (1 Original + 2 Copies).
- 2) Unconditional Purchase Order acceptance.
- 3) A bank guarantee for equivalent amount valid till the contractual delivery schedule Plus a claim period of three months.
- 4) Performance Security Bond as per Clause No. 7.0.
- 5) Copy of Insurance Policies / Certificate of Insurance as per Clause No. 12.0 and Clause No. 15.0.
- 6) A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorised representative stating that Contractor has satisfactorily completed site mobilization activities as indicated in clause no.9.2.1 and payment as per clause 9.2.1 can be released.
- 7) Declaration Form as per ANNEXURE-F.

9.2.2 66% of Erection & Commissioning Prices (inclusive of applicable taxes and duties) will be released on pro-rata basis against completion of 'Erection & Commissioning works', as given in schedule of quantities & rates (SOQR) for E&C works (Annexure-2) and on submission of following documents:

- 1) Invoice of contractor. (1 Original + 2 Copies).
- 2) A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorized representative stating that Contractor has satisfactorily completed E&C works as per Annexure-2 and payment as per clause no.9.2.2 can be released.
- 3) Declaration Form as per ANNEXURE-F.

9.2.3 2% of Erection & Commissioning Prices (inclusive of applicable taxes and duties) will be released on pro-rata basis subject to recovery as per A – I to P.O on 'Project Instructions on Safety at Site for EPC Packages' / 'Contract Conditions for Industrial Safety' appended to GCC and on submission of following documents:

- a. Invoice of contractor. (1 Original + 2 Copies).
- b. A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorized representative stating that contractor has satisfactorily completed works w.r.t.



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conditions for safety, report submitted, approved and payment as per clause no. 9.2.3 can be released.

c. Declaration Form as per Annexure-F.

9.2.4 1% of Erection & Commissioning Prices (inclusive of applicable taxes and duties) will be released on pro-rata basis subject to recovery as per Annexure – A – II to P.O on 'Project Instructions for **House Keeping** at Site' for EPC Packages, on submission of following documents:

- a. Invoice of contractor. (1 Original + 2 Copies).
- b. A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorised representative stating that contractor has satisfactorily completed works w.r.t. conditions for House Keeping, report submitted, approved and payment as per clause no.9.2.4 can be released.
- c. Declaration Form as per Annexure-F.

9.2.5 1% of Erection & Commissioning Prices (inclusive of applicable taxes and duties) will be released on pro-rata basis subject to recovery as per Annexure – A – III to P.O on 'Project Instructions for **Preservation** at Site' for EPC Packages, and on submission of following documents:

- a. Invoice of contractor. (1 Original + 2 Copies).
- b. A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorised representative stating that contractor has satisfactorily completed works w.r.t. conditions for Preservation, report submitted, approved and payment as per clause no.9.2.5 can be released.
- c. Declaration Form as per Annexure-F.

9.2.6 7.5% of Erection & Commissioning Prices (inclusive of applicable taxes and duties) will be released on releasing of the erected equipments for Pre-Commissioning /Commissioning and issue of Erection Completion Certificate for each Reactor Unit by the Purchaser's authorized Engineer and on submission of following documents:-

- 1) Invoice of contractor. (1 Original + 2 Copies).
- 2) A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorized representative stating that contractor has satisfactorily completed, releasing of the erected equipments for pre-commissioning / commissioning and Erection Completion Certificate has been issued and payment as per clause no.9.2.6 can be released.
- 3) Declaration Form as per ANNEXURE-F.



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9.2.7 7.5% of Erection & Commissioning Prices (inclusive of applicable taxes and duties) will be released on handing over of the facilities to the Purchaser and issue of Operational Acceptance Certificate for each Reactor Unit by the Purchaser's authorized Engineer and on submission of following documents:-

- 1) Invoice of contractor. (1 Original + 2 Copies).
- 2) A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorized representative stating that Contractor has satisfactorily handed over the facilities to the Purchaser & Operational Acceptance Certificate has been issued and payment as per clause no.9.2.7 can be released.
- 3) Declaration Form as per ANNEXURE-F.

9.2.8 5% of Erection & Commissioning Prices (inclusive of applicable taxes and duties) will be released on completion of Material Accounting and on submission of following documents:-

- 1) Invoice of contractor. (1 Original + 2 Copies).
- 2) A Certificate issued by Chief Construction Engineer, KKNPP-3&4 or his authorized representative stating that Contractor has satisfactorily completed Material Accounting and payment as per clause no.9.2.8 can be released.
- 3) Declaration Form as per ANNEXURE-F.

9.2.9 In the event of delay in attaining the events pertaining to clause no. 9.2.6, 9.2.7 & 9.2.8 above, for reasons attributable to the purchaser, the corresponding payments can be released to the contractor on expiry of original CDD against Retention Bank Guarantee as per format given in Annexure-C, initially valid for six months and subsequently extendable till completion of the corresponding events subject to completion of all erection works. This Retention BG will be used for recovery of LD pursuant to GCC clause no. 6.2 (Delay in Supply) alongwith GST, as applicable, in addition to failure to fulfil the obligations of the contract by the contractor.

On submission of this Retention Bank Guarantee, it shall be deemed and construed that the contractor has authorized the Purchaser to encash the Retention Bank Guarantee, for recovery of any amount whatsoever it may be, in general and for recovery of Liquidated Damages (LD) in particular due to failure on the part of contractor to fulfill its part of obligation. The decision of NPCIL, in this regard, shall be final and binding.

For all the above Payment terms the following is applicable:

Note:- Chief Construction Engineer or his authorized representative shall ensure validity, extension and appropriate risk coverage etc. of Insurance Policy / Certificate of Insurance as per Clause No. 12.0 and 15.0 before releasing each stage payment and certificate to this effect.



10.0 MODE OF PAYMENT

- 10.1 The payments in Indian Rupees, as applicable, will be released directly by the Purchaser's paying authority to the Contractor as per the terms of payment against submission of necessary documents.
- 10.2 To facilitate payment through NEFT/RTGS, Contractor shall submit bank details duly authenticated by the concerned bank on or before submission of the first invoice/bill. Subsequently, in case of any change/revision these details shall again need to be duly authenticated by the respective bank.
- 10.3 While releasing the payments, Income-tax at the applicable rate will be deducted at source and necessary TDS certificate will be issued to the Contractor.

11.0 PAYING AUTHORITY

- 11.1 All invoices/bills should be addressed to Manager (F&A) as detailed below with GST No. and SA Code. All the invoices/bills and other documents for payment shall be submitted to Paying Authority indicated below:

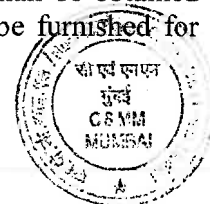
Manager (F&A),
Nuclear Power Corporation of India Limited,
Kudankulam Nuclear Power Project-3&4,
PO: Kudankulam, Taluka : Radhapuram,
Dist: Tirunelveli, Tamil Nadu – 627 106.

12.0 BANK GUARANTEE & INSURANCE POLICIES

- 12.1 All bank guarantees strictly in conformity with the formats enclosed herewith shall be got executed from Scheduled Commercial Bank in India (except Co-operative Bank) and shall be governed by Indian Laws and subject to jurisdiction of Courts in Mumbai, India. All Bank Guarantees shall be submitted directly by the concerned bank under their seal and cover for acceptance to :

Manager (Contracts), C&MM
Directorate of Contracts & Materials Management,
Nuclear Power Corporation of India Limited,
Nabhikiya Urja Bhavan,
Anushaktinagar, Mumbai-400094.

- 12.2 Reduction in Bank Guarantee values of advances mentioned under clause no. 9.2.1 shall be allowed upon the pro-rata execution of works once in six months.
- 12.3 The initial Insurance Policies as per clause no 15.0 and sub-clauses shall be obtained before starting of the dispatch of Stores / Equipment and same shall be furnished for acceptance to:-



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Manager (Contracts), C&MM

Directorate of Contracts & Materials Management,
Nuclear Power Corporation of India Limited,
MEQ Section, Nabhikiya Urja Bhavan, Block No.D-0,
Anushaktinagar, Mumbai-400094.

With a copy to Chief Construction Engineer, KKNPP -3 & 4

- 12.4 The Insurance Policies shall be maintained , validated and extended from time to time as per contract terms & conditions and shall be submitted to Chief Construction Engineer, KKNPP -3 & 4 at site with a copy to Manager (Contracts), C&MM, HQ, Mumbai.
- 12.5 Contractor shall keep all the records of Insurance Policies submitted as per clause no. 12.3 & 12.4 as above. These record shall be submitted to Chief Construction Engineer or his authorized representative for further maintaining and validating from time to time of the said insurance policies.

13.0 TERMS AND CONDITIONS OF THE CONTRACT

- 13.1 This Purchase Order shall be governed by the Terms & Conditions contained in the following documents, with the priority in the following sequence:
- a) Contract Agreement / Purchase Order along with subsequent correspondences with the Contractor as per list in the Appendix -1 : Reference Particulars.
 - b) Special Conditions of Contract (SCC).
 - c) General Conditions of the contract, GCC/EPC-4/R-4
 - d) Tender (including technical specifications, drawings, etc.) document, other than Sr.no. (b) & (c) above.

14.0 LIQUIDATED DAMAGES

- 14.1 In the event of delay in completion of facilities as detailed in Clause no. 5.0, Liquidated damages will be levied at the rate of 0.25% of the total Contract value per week or part thereof subject to a maximum of 5% of the total Contract value (i.e. **P.O.CMM/MEQ/25-24-2-1188/e-PO/0045 for Supply Contract and P.O.CMM/MEQ/91-24-2-1188/e-PO/0046 for Erection & Commissioning, Civil Works Contract**, Liquidated Damages along with Goods and Service Tax (GST), as applicable, shall be recovered from the Contractor.



15.0 INSURANCE COVER

15.1 The Contractor shall, take out and maintain in effect the following Insurance based on reinstatement value during the performance of the contract and the Purchaser (i.e. NPCIL) shall be named as co-insured under all insurance policies. All Insurer's rights of subrogation against co-insured shall be waived. Deductibles/ excesses if any, under the insurance policies shall be borne by the Contractor. In the Insurance Policies mentioned below except for Third Party Liability Insurance and Automobile insurance, the Purchaser (i.e. NPCIL) shall be named as LOSS PAYEE in this Insurance Policy.

15.1.1 Storage-cum Erection Insurance policy/ Contractor's All Risk Insurance Policy.

15.1.1.1 Covering physical loss or damage to the facilities at site against all risks including Terrorism occurring till the completion and handing over of facilities.

15.1.2 Third Party Liability Insurance

15.1.2.1 Covering bodily injury or death suffered by 3rd parties (including Purchaser's personnel) and loss or damage to the property occurring in connection with the supply and installation of the facilities.

15.1.3 Workmen's compensation for Contractor's workmen

15.1.3.1 In accordance with the applicable statutory requirement.

15.1.3.2 The phrase "Purchaser's (i.e. NPCIL) interest is protected" shall be endorsed in the Policy.

15.1.4 Automobile Liability Insurance

15.1.4.1 Covering use of all vehicles used by Contractor or its sub-contractor (whether or not owned by them) in connection with the execution of the contract.

15.1.5 Additional Insurance

15.1.5.1 Any other insurance that may become applicable during execution of the contract shall be arranged by the contractor at his own cost.

16.0 SUB-CONTRACT

16.1 The Contractor shall not sub-contract any or all of the work without written consent of the Purchaser. The Contractor shall be solely responsible to the Purchaser for all work including that of the sub-contractor, if allowed by the Purchaser.



17.0 LIABILITY UNDER THE WORKMEN'S COMPENSATION ACT

- 17.1 The contractor shall at all times, indemnify the Purchaser against any claims which may be under the Workmen's Compensation Act 1923 or any statutory modification thereof or otherwise for or in respect of any damages or compensation payable in consequences of any accident or injury sustained by any worker or other person in the employment of the Contractor.

18.0 PROGRESS REPORTING

- 18.1 The Contractor shall submit the Progress Report in an acceptable format to

Chief Construction Engineer,
Nuclear Power Corporation of India Limited,
Kudankulam Nuclear Power Project-3&4,
PO: Kudankulam, Taluka : Radhapuram,
Dist: Tirunelveli, Tamil Nadu – 627 106.

on monthly basis for monitoring the progress of work with a copy to Associate Director (C&MM), Directorate of C&MM, NPCIL, Mumbai for information alongwith monthly progress report.

- 18.2 A hindrance register will be maintained in the office of Chief Construction Engineer, KKNPP-3&4 for recording / monitoring of hindrance to the progress of work and resolution thereof.

19.0 POST ORDER CORRESPONDENCE

- 19.1 All Correspondence regarding Technical matters in respect of this order shall henceforth be addressed to :

Chief Construction Engineer,
Nuclear Power Corporation of India Limited,
Kudankulam Nuclear Power Project-3&4,
PO: Kudankulam, Taluka : Radhapuram,
Dist: Tirunelveli, Tamil Nadu – 627 106.

- 19.2 All Correspondence regarding Commercial matters in respect of this order shall henceforth be addressed to:

Associate Director (C&MM),
Directorate of Contracts & Materials Management,
Nuclear Power Corpn. of India Ltd.,
Nabhikiya Urja Bhavan, A-'0' Block, Ground Floor,
Anushaktinagar, Mumbai-400094.



20.0 SECRECY CLAUSE

20.1 The purchase order shall be governed by Confidentiality clause no.1.10 of General Conditions of Contract, i.e. GCC/EPC-4/Rev-4.

20.2 The design, drawings, specifications and other details furnished to the Contractor by the Purchaser towards manufacture of equipment are to be treated as secret and shall not be divulged to any third party. The Contractor, therefore, bind himself, his successor, his executors, administrators, employees and the permitted assignees or such other persons, agents directly or indirectly concerned with the works / supply to the secret nature of design, drawings, specifications etc.

21.0 SETTLEMENT OF DISPUTE

21.1 Settlement of dispute will be governed as per Clause no. 22 of GCC/EPC-4/R-4.

22.0 CHARGEABLE ISSUES TO CONTRACTOR

Charges to be levied on the Contractor for the following services / facilities provided by the Purchaser.

- a) In respect of any Land allotted to the Contractor for purpose of or in connection with the contract as provided shall be imposed by Engg.-In-Charge as per GCC Clause no. 11.1, 11.2 & 11.3 & SCC Clause No.9.
- b) In respect of Water Supply allotted to the Contractor for purpose of or in connection with the contract as provided shall be imposed by Engg.-In-Charge as per GCC Clause no. 11.4 & SCC Clause No.10.
- c) In respect of Construction Power supply allotted to the Contractor to be levied based on the prevailing TNEB / TANGEDCO Tariff rates, which are subject to revision from time to time and as per GCC Clause No.11.5 & SCC Clause No.11.

In addition to above, if any other facilities / services provided by the Purchaser, same shall be governed as per GCC / SCC.


09/05/2025

(V.K.Trivedi)

Associate Director, C&MM

For and on behalf of Nuclear Power Corporation of India Limited
(The Purchaser)

SECTION-C: TECHNICAL SPECIFICATIONS

1.0 Brief scope of Supply/Works/Services:

- 1.1 This specification covers engineering, design, manufacturing, constructional features, inspection and testing at Contractor's/ Sub-Contractor's works, packing, transportation, safe delivery at site, erection, commissioning and performance of functional & load tests at site.

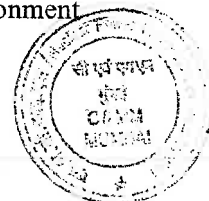
The major areas of scope are:

- a) 1200kW DEC (Design Extended Condition) diesel generator sets shall include all accessories, fuel oil system, lube oil system, cooling system, ventilation, battery and battery chargers, etc. complete in all respects.
 - b) The DEC DG set shall be enclosed either in a Galvalumin/Aluminium sheet canopy or be of containerized version, designed to power the loads involved in the Design Extension Condition (DEC) management associated with a complete loss of onsite and offsite AC power sources for over 24 hours. The DG plant shall be able to operate at rated power, for at least eight hours using the day fuel tank. Continuous operation beyond these 8-hour would be subject to topping up of day fuel tank.
 - c) The equipment setup shall include two diesel generator sets (one for each NPP unit), one portable carriage-mounted Resistive load bank of capacity 50 % of name plate rating of DEC DG (For the purpose of the DG set testing).
 - d) Ventilation fans for DG as required, filters for air intake, weathering steel/ COR-TEN steel construction DG exhaust stack meeting statutory requirements. (along with rain hood, louvers and/ or bird mesh/screen).
 - e) Civil requirements such as design, drawings, construction, etc. shall be as per attached Annexure-1 of Section-C in the Tender Document (CMM/MEQ/25-24-2-1188).
 - f) LV distribution panel comprising incomer breaker, bus, outgoing feeder breakers, etc. as per annexure 3 shall be designed, manufactured, tested, supplied, erected, tested and commissioned.
 - g) Seismic qualification for DEC DG & auxiliaries and Supporting Systems, etc. shall be as per attached Annexure-2 of Section-C in the Tender Document (CMM/MEQ/25-24-2-1188).
- 1.2 Whether called for specifically or not, all accessories required for normal operation of the equipment and installation at site is deemed to be considered as a part of Contractor's scope of supply/site works. Any special tools and tackles required for maintenance and erection are deemed to be included in the scope of supply.
- 1.3 Spares as listed in Sl. No – 11 (I02.KK34.0.0.ET.TB.PR127) and Mandatory spares (Page No.-57 of 89 in ET.TS.PR127) shall be supplied by the Contractor.
- 1.4 It is not the intent Purchaser to specify completely herein, all details of design and construction of the equipment. However, the equipment shall conform in all respects to standards of engineering, design and workmanship and be capable of performing continuous commercial operation in a manner acceptable to the Purchaser who will interpret the meaning of drawings, specification and shall be entitled to reject any work or material which in his judgment is not in full accordance therewith.



SECTION-C: TECHNICAL SPECIFICATIONS

- 1.5 DEC Diesel generator along with its base frame, vibration isolating arrangement (if provided), together with all control accessories, instruments, radiators, etc. forming integral part of diesel generator set normally assembled and mounted as a unit inside the acoustic enclosure shall be qualified - testing or through analysis, preferably testing to the specified level of earthquake and other requirements in accordance with a procedure to be approved by the Purchaser. The electrical distribution board shall be seismically qualified through shake table tests. The enveloped seismic response spectra and other requirements shall be developed by the successful bidder during execution of the contract and submitted for approval to the Purchaser. If the offered DG set has already been qualified to a response spectra profile matching or containing the enveloped spectra, then test report subject to Purchaser's approval of such a qualification report shall be acceptable in lieu of fresh qualification. However, if no prior qualification has been done or if valid reports are not available, the same shall be qualified by the successful bidder for this project. The final decision on the validity of the qualification reports will be solely based on Purchaser's assessment. If testing facility is not available in India; DG sets and auxiliaries shall be qualified through analysis.
- 1.6 Where tests are undertaken, pre-seismic & post-seismic tests and other requirements shall be performed at factory/ Laboratory contractor's works. During seismic and other requirements testing, silencer which is a part of acoustic enclosure need not be mounted on the engine as DG will not be running and other DG accessories will be in de-energized condition. Post seismic and other requirements tests/ inspection shall not reveal any deviation in performance or compromised structural integrity.
- 1.7 The acoustic enclosure, silencer and external ducting, fuel tank, fuel pump and its associated
Portable refilling pump (of capacity 100 LPM; suction and discharge heads of 4 and 10 m respectively) to fill fuel oil from outside underground tank (UEJ) to the day fuel tank. The outside underground tank (UEJ tank) is located at -4.2 m elevation and around 200 m away from the day fuel tank. Isolating valve, intake filters along with their supporting structures shall be subjected to analysis by modelling the assembly. If the diesel generator assembly and acoustic enclosure are integral, load on account of diesel generator shall be included in this model for analysis. The analysis shall conclude structural integrity of the assembly and its fixing arrangement with the embedded parts.
- 1.8 The scope of work also includes unloading at site, transportation to location of installation/ storage in case installation site is not ready, site supervision, security, complete erection and commissioning of items covered in this tender along with supply of all consumables and hardware required for erection and site testing. Diesel oil will be provided by NPCIL for erection and commissioning of the DG sets.
- 1.9 Exhaust stack height shall be as per the pollution control norms of the local state and national bodies where they have to be installed. The exhaust stack shall be constructed out of weathering steel/ COR-TEN steel to withstand the highly saline environment of the KKNPP site.



SECTION-C: TECHNICAL SPECIFICATIONS

- 1.10 DG and accessories including the GI ducting/piping and day fuel tank pipeline to the DG, refilling pipeline and their support structures shall be designed such that they can be easily Installed/ erected. All erection hardware and tools and tackles required for erection shall be supplied by the Contractor and are in the scope of this contract.
- 1.11 Terminal Points and Exclusions
- 1.12 As the subject item is a part of the combined package, scope of work includes all facilities and nothing is excluded. Seismic and other requirements, qualified anchor fasteners of approved make and types shall be provided by the Contractor wherever required.

2.0 General Functions and Technical Requirements:

- 2.1 The DEC DG is classified as safety Class 4 as per NP-001-15, PNAEG-01-011-97 "General provisions for assurance of safety at Nuclear Power Stations" (OPB-88/97) which is taken as equivalent to NINS class of AERB SG D 1, its seismic qualification shall be for Category I as per NP-031-01 "Regulation for design of anti-seismic nuclear power stations" which taken as equivalent to Seismic category 1 of AERB SG D 1.

Functional requirements of a 1200kW DEC DG Set

- 2.1.1 The DEC diesel generators are required to function as a standby source of electric power.
- 2.1.2 DEC Diesel generator sets shall consist of diesel generator set, associated auxiliary systems, radiator for cooling jacket water, base frame, vibration isolating devices, instruments, controls, protections and measurements, piping, silencer, flexible connections wherever required, day fuel tank rated for 8 hours, lube oil sump, tanks refilling hose, pump & isolating valve and acoustic enclosure or container/canopy, AVR, governor, DG control panel, starting battery, charger, LV distribution panel, cables, etc. to make the system complete. The DG set shall be complete with ventilation and fire protection for the container/ canopy, Resistive load bank for testing, etc.
- 2.1.3 The DEC DG shall comprise:
- Each DEC diesel generator shall include the following equipment and systems:
- a) Enclosure with door and process related opening;
 - b) Diesel generator as a set preinstalled on base frame;
 - c) Fuel system;
 - d) Oil system;
 - e) DG cooling system;
 - f) Radiators;
 - g) Electric start up system;
 - h) Exhaust system;
 - i) Air supply, heating, and ventilation system;



SECTION-C: TECHNICAL SPECIFICATIONS

- j) Lighting system;
- k) Storage battery recharging system;
- l) Basic firefighting equipment (fire extinguishers)
- m) Generator set control system
- n) Automatic voltage and field control system; DG protections (process- related and electric);
- o) I&C, switchgear (AC 0.4 kV) with connector to line it to the KKNPP 3&4 mains of respective voltage rating to supply the auxiliaries;
- p) Auxiliary rack, complete with switchgear to take power to feed the auxiliaries;
- q) Resistor Load bank to test the gen-set at 50% of its rating.
- r) The diesel engine shall have an automatic system of governor/crankshaft rotational frequency control (ARFCS).

The surfaces, subject to thermal insulation, shall be lagged as per "Design standards for thermal insulation of NPP equipment and piping "ISO 23466:2020
The thermal insulant shall be part of the DEC DG delivery.

3.0 Completeness of Delivery:

3.1 The DEC DG delivery shall include the following:

- a) DG as a set;
 - 1) Diesel-engine with coupling, ARFCS.
 - 2) Alternator, with a cable connection unit, the built-in current and voltage transformers, the excitation system and automatic voltage regulator;
 - 3) Set of embedded parts and mounts;
 - 4) Base-frame with vibro-insulators and terminals to connect to KKNPP 3&4 grounding loop;
- b) The DEC DG delivery shall also include:
 - 1) DEC DG control system, including panels to control its main and secondary systems;
 - 2) Starting system with batteries and backup power sources;
 - 3) Air drying/ cleaning unit (air intake system);
 - 4) Exhaust system, incl. silencer, ducting, complete with lagging & support structure;
 - 5) Cooling system, including conservator, radiators, fans, piping, valves and electric heaters (if required)
 - 6) Fuel system, including day tank, pumps, valves and other components
 - 7) Lubricating system, including its tanks, heat-exchangers, pumps and valves
 - 8) Set of instrumentation to adjust and monitor the DG and its systems performance, including sensors;
 - 9) Heating system (as required);
 - 10) Firefighting system;
 - 11) Lighting;
 - 12) Primary coolant, oil and fuel pre-heating facility, if required;
 - 13) Additional coolant, oil and fuel pre-heating, as required;
 - 14) A set of installation items;
 - 15) Spare parts;



SECTION-C: TECHNICAL SPECIFICATIONS

- 16) Tools and tackles and accessories;
- 17) Batteries
- 18) Rectifiers;
- 19) 0.4 kV switchboard (one set ;)
- 20) Appropriate packing
- 21) Test reports, certificates to support all delivery items;
- 22) External connections shall be supplied with companion flanges;
- 23) Mounts to fix the equipment to its support structures;
- 24) Special implements to grip the assemblies by lifting appliances for further shipping for repairs;
- 25) Repair tools
- 26) Anchorage;
- 27) Equivalent circuit specifying basic parameters (X_d , X_d' , X_d'' etc.) to calculate the short-circuit currents);
- 28) Loader bank for testing;
- 29) Set of cables;
- 30) Devices to handle the equipment power cables required and the method of their storage within

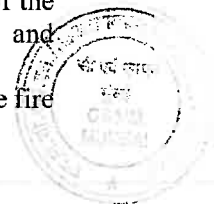
- 3.2 Once the respective stage of engineering and fabrication is over, the Vendor/Manufacturer shall submit the following documents:

- 1) Product QA plan;
- 2) Technical specifications - 4 copies;
- 3) Service documentation - 4 copies;
- 4) Repair documentation

The coding system for the equipment and components shall be similar to that of KKNPP.

- 3.3 Among others, the following shall also be submitted to the Purchaser as a part of documentation:

- A. Mechanical part:
 - 1) Full set of auxiliary equipment, including assembly units and installation accessories of the packaged equipment, installation documentation, etc.;
 - 2) Requirements for external services.
 - 3) Allowable hydro test pressure and hydro test water temperature;
 - 4) Determined power voltage swing characteristics;
 - 5) Specification; assembly drawings with mounting dimensions, structural analysis; Product specifications, test program and procedure, operational documents;
 - 6) Assembly drawings showing installation diagrams, its CoG, slinging tackle; etc.
 - 7) Schematic piping diagram of the auxiliary services, showing the piping purpose, its DN details, type and specification of the ancillary equipment;
 - 8) Sectional views and cross-sections to explain the elevation of day-tanks for oil and fuel, oil overflow tank, etc., as well as exhaust line mounting;
 - 9) Sectional views and cross-sections to explain the service conditions of the cooling unit (i.e. the air intake to the cooling unit, its discharge and recirculation);
 - 10) Description of system performance for all duties and that of the fire



SECTION-C: TECHNICAL SPECIFICATIONS

safety and environmental solutions;

11) Mounting flow diagrams;

B. Electrical part:

- 12) Electrical circuit diagrams for the primary and secondary connections;
- 13) Diagrams and algorithms of DG ACS performance;
- 14) wiring diagrams with relevant marking;
- 15) Diagrams of protections and alarms;
- 16) Drawings of electric boards with terminations;
- 17) Layout of electrical equipment, location of safety features and switchgear;
- 18) Peak loading schedule to determine the output of electric loads excepted by the diesel engine at any point of loading;
- 19) The table of external connections in terms of inputs, specified in respective sections.

The submittals shall include documentation for the Resistive load bank.

3.4 The documents shall be subject to approval by the Purchaser. After final approval, two registered hard and two soft copy of such documentation shall be submitted to the Purchaser.

3.5 The DEC DG equipment shall be shipped complete with a set of service and repair documentation.

3.6 Marking Requirement

3.6.1 The Supplier/Manufacturer shall have procedures to identify and follow the equipment components (parts, assembly units, etc.). For this purpose, the equipment, all the parts and assembly units of the equipment shall bear markings and be provided with accompanying documentation ensuring their identification and monitoring at all stages of their life cycle and confirming their compliance with the requirements of corresponding processes and regulatory documents.

3.6.2 The content, place and method of the equipment marking shall comply with the regulations applicable to the specific item, and shall be indicated in its engineering documentation. The method for applying marking shall ensure its legibility, quality, and indelibility during operation, transportation and storage.

3.6.3 The marking shall meet the following requirements:

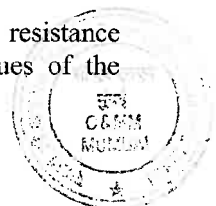
- a. Be clear, legible, and not affect the item performance;
- b. The surface treatment and coating shall not damage marking, unless the mentioned marking is substituted by other identification means during manufacturing;
- c. Be resistant to mechanical and external climatic impacts, solutions and corrosive media (including decontaminants), the types and characteristics of which shall be determined by the engineering documentation, standards and/or technical specifications for the items of a specific type;
- d. The marking shall remain stable and strong for the item's entire service life under the conditions and modes specified in the equipment design documentation, standards and product specifications for particular types of items.

If the item is a composite one, each constituent shall preserve its original identification. The process documentation shall describe the marking procedure.



SECTION-C: TECHNICAL SPECIFICATIONS

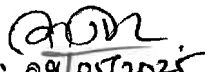
- 3.6.4 Individual KKS codes (functional designation) shall be assigned to the equipment according to this TS. The marking of functional designation shall be additionally approved by the Purchaser.
- 3.6.5 The equipment components that may be subject to overpressure or under pressure by their service conditions shall bear marking indicating at least the following data:
- Grade of material;
 - Certificate No. or manufacturing certificate;
 - Heat No., batch No., and (or) billet No.
 - Manufacturer trademark.
- 3.6.6 Once manufactured the equipment casing shall have a decal or marking installed in a prominent place to read the following:
- Manufacturer's name and/or trademark;
 - Item serial No., according to the Manufacturer's numbering system;
 - Year and month of manufacture;
 - DG designation;
 - Output;
 - Voltage;
 - Frequency;
 - RPM;
 - Current type;
 - Information on parameters and characteristics of equipment according to nomenclature established by the regulatory documents applicable to a specific equipment item;
 - Other information in accordance with the engineering documentation and/or supply contract;
 - Mass;
 - Safety class/ Group/ Seismic category.
 - The cargo marking (transportation marking) shall include handling signs and basic, additional and informative inscriptions. year and month of manufacture;
 - Data on equipment performance subject to cargo content.
- 3.7 Documentation from the Supplier during detailed engineering.
- 3.7.1 The equipment documentation shall be submitted within the full set of the design documents, including:
- General view drawings, explanatory note, specifications, loads on civil structures under NO conditions and under seismic loads, CoG (centre of gravity); instrumentation details, including control circuit diagram, sensor wiring diagram in the DG set terminal box; DG set control algorithm with the narrative of protections and interlock conditions (if necessary), the layout of electrical equipment and the structural diagram of cable links;
 - Assembly drawing with mounting dimensions, technical specifications, performance curves for fan selection, noise characteristics, installation instructions, equipment slinging diagram, test program and methods, criteria of - failures and limit states of the equipment, operational documents;
 - Structural analysis, with final verifications for strength and seismic resistance specifying the loading cases, loading diagrams, load combinations, values of the working stress (stress categories), standard allowable stress and safe loads.
 - Analysis of reliability parameters.



SECTION-C: TECHNICAL SPECIFICATIONS

- e. Fire potential Analysis based on engineering and fabrication results.
 - f. QA documentation for all stages of the item development.
 - g. Shipping documentation.
- 3.7 After final approval of the Purchaser, one registered copy of the Technical documentation shall be provided.
- 3.8 REQUIREMENTS TO I&C DOCUMENTATION
- 3.8.1 The documentation shall include:
- a. List of monitoring points for the gears;
 - b. List of isolating valves;
 - c. List of control valves;
 - d. Diagram of electric and piping detector connections;
 - e. Control algorithm, with a narrative of conditions for protections and interlocks;
 - f. Diagrams of cable connections for the LCP and electric auxiliary equipment of the DEC DG;
 - g. List of equipment, items and materials;
- 3.9 Nevertheless, the complete scope of work under the subject package shall confirm in all respects to the highest standard of Design and Engineering, Procurement, Manufacture, Factory inspection & testing, Shipment to site, storage & preservation at site, Erection / Construction, Testing, Commissioning, Trial operation, Performance Testing and Handing over etc.. By ensuring total quality and safety in the workmanship of various activities to be accomplished as per the scope of this package and as detailed in the tender documents.

Contractor shall note that, it is not the intent to specify completely herein or above, all aspect of Design & Engineering, Procurement, Manufacture, Factory inspection & testing, Shipment to site, storage & preservation at site, Erection / Construction, Testing, Commissioning, Trial operation, Performance Testing and Handing over etc. which are all detailed in the tender documents (Tender No. CMM / MEQ / 25 - 24 - 2 - 1188) to be read along with Technical and Commercial clarifications recorded during Pre-Bid Stage, MoM signed during Part-I evaluation stage and other clarifications issued during negotiation, which shall all be binding on the Contractor.


09/05/2025
(V. K. Trivedi)

Associate Director, C&MM
For and on behalf of Nuclear Power Corporation of India Limited
(The Purchaser)

Annexure-1: Break-up Price Schedule for Civil Works

SINO	ITEM DESCRIPTION	SA Code	UOM	QUANTITY FOR UNIT - 3	QUANTITY FOR UNIT - 4	TOTAL QUANTITY FOR UNIT 3&4	Unit Price Inclusive Of GST And All Other Indirect Taxes In INR	Total Price Inclusive Of GST And All Other Indirect Taxes In INR (D=BxC)	Rate Of GST Included In Total Price In Percentage (%) Under D
1.0	CIVIL & ASSOCIATED WORKS FOR EPC PACKAGE FOR 1500 KVA DIESEL GENERATOR SETS & ITS AUXILIARIES FOR KKNPP UNITS - 3 & 4: Lump Sum Charges for design, engineering, procurement, fabrication/ manufacture, documentation, supply of materials required for the construction of DG platform and construction of the DG Platform associated works as per technical specification, Stand alone stack from ground to meet MoEF requirement with regard to stack height along with associated works as per technical specification and as per OEM requirement, relevant standards and approved drawing. Civil work also includes for design, engineering, Procurement, fabrication / manufacture, documentation, supply of materials required for the shed works and erection of DG Shed with associated works as per technical specification, relevant standards and approved drawing, complete in all respects.	998736	Sets	1	1	2	1,69,37,124.00	3,38,74,248.00	18
Total							3,38,74,248.00		

(Rupees Three Crore Thirty Eight Lakh Seventy Four Thousand Two Hundred Forty Eight)



 09/05/2025
 (V.K. Trivedi)

 Associate Director, C&MM
 For & on behalf of Nuclear Power Corporation of India Limited
 (The Purchaser)

PURCHASE ORDER NO. CMM/MNQ/25-24-2-1188/e-PO/0046

Annexure-2: Break-up Price Schedule for Erection & Commissioning Works

S/NO	ITEM DESCRIPTION	SA Code	UOM	QUANTITY FOR UNIT -3	QUANTITY FOR UNIT-4	TOTAL QUANTITY FOR UNIT 3&4	Unit Price Inclusive Of GST And All Other Indirect Taxes In INR (C)	Total Price Inclusive Of GST And All Other Indirect Taxes In INR (D=BxC)	Rate Of GST Included In Total Price In Percentage (%) Under D
			A	B1	B2	B = B1 + B2	C	D	E
1.0	ERECTION AND COMMISSIONING WORKS FOR EPC PACKAGE FOR 1500 KVA DIESEL GENERATOR SETS & ITS AUXILIARIES FOR KKNPP UNIT'S -3 & 4: Lump Sum Charges for Erection, Testing and Commissioning of DG Sets along with its Auxiliaries and its associated systems / sub - systems covering Erection, Erection Testing including storage, preservation and handling, loading / unloading, transportation at site, storage-cum-erection Insurance, labour charges etc. & handing over of all DG Set equipment along with its Auxiliaries and associated systems / sub-systems for Pre-Commissioning / Commissioning as per the requirement of tender document / technical specifications and drawings and as recommended by the Purchaser, complete in all respects. All the Plant Machineries, tools and tackles required for the successful completion of the erection & erection testing works shall be arranged by the Contractor at site.	998736	Sets	1	1	2	67,97,508.00	1,35,95,016.00	18
Total								1,35,95,016.00	

(Rupees One Crore Thirty Five Lakh Ninety Five Thousand Sixteen Only)


 09/05/2025
 (V.K. Trivedi)
 Associate Director, C&MM
 For & on behalf of Nuclear Power Corporation of India Limited
 (The Purchaser)

NUCLEAR POWER CORPORATION OF INDIA LTD.
(A Govt. of India Enterprise)
KUDANKULAM NUCLEAR POWER PROJECT-3&4



PROJECT INSTRUCTION

**Title : Industrial safety clauses in tender documents for Engineering,
Procurement and Construction (EPC) Contracts**

(REV-01)

कुडनकुलम न्यूक्लियर पावर प्रोजेक्ट
Kudankulam Nuclear Power Project
प्रलेखन केंद्र
DOCUMENTATION CENTRE
केंद्र / KK- 3 & 4/II/S/G / 004 / 1 R.1
दिनांक / Date. 02-11-2016

Doc No. I01.KK34.0.0.OT.PIN.P001

Date of Issue : 02.11.2016





न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Nuclear Power Corporation of India Ltd.
(भारत सरकार का उपक्रम)
(A Government of India Enterprise)
KUDANKULAM NUCLEAR POWER PROJECT 3&4



PROJECT INSTRUCTION ON INDUSTRIAL SAFETY

Project Instruction No./Rev. No.	PI/IS&F/2016/02(R1)
Date of issue	02.11.2016
Old PI No(if any)	PI/IS&F/2016/01(R0)
Original PI Issued on	May 02, 2016
Concerned Sections	All Sections
Responsible Agencies for implementation	(i) Engineers-in-charge of the contract (ii) Site In-charge of the Contractors (iii) IS&F-NPCIL

Title: Industrial Safety Clauses in Tender Documents for Engineering, Procurement and Construction contracts

With a view to elaborate upon various Industrial Safety requirements to be fulfilled under Engineering, Procurement and Construction contracts, as brought out in the General Conditions of Contract (Contract conditions for Industrial safety) and also to strengthen the Industrial Safety at KKNPP-3&4 in general, following Industrial Safety clauses. are to be incorporated in Section-III (Special conditions of contract) of the tender document for all future Engineering, Procurement and Construction contracts. Relevant clause of contract conditions for Industrial safety of GCC EPC is indicated in the supplementary clause.

1.0 Safety organization of the Contractor (Ref. Clause 4.0 of GCC-EPC)

1.1 With reference to Clause No. 4.1 & 4.2 of General Conditions of Contract in respect to deployment of Safety Professionals, the following minimum requirement shall be fulfilled:

Sr. No.	Manpower per Shift	No. of Safety Officers to be appointed	No. of Safety Supervisors to be appointed
1	Up to 20	Nil	01
2	21 to 100	Nil	02
3	101 to 200	Nil	03
4	201 to 350	Nil	04
5	351 to 500	01	05
6	Above 500	1 for every addl. 500 workers in addition to number mentioned against Sr. No. 5	1 for every addl. 200 workers in addition to number mentioned against Sr. No. 5



1.2 Qualification of Safety Professional shall be as follows: (Ref: AERB Notification dated July 8, 2002; Annexure-2)

- **Safety Officer** : Degree in Engineering and Diploma in Industrial Safety, recognized by the Central / State Government
- **Safety Supervisor** : Diploma in Engineering and Diploma in Industrial Safety recognized by the Central/ State Government or 6 years supervisory experience.

2.0 **Training requirements** (Ref. Clause 6.0 of GCC-EPC)

2.1 Safety Training for contract persons, as referred in Clause 6 of General conditions of Contract, shall be provided by the Contractor.

2.2 For all works having manpower less than or equal to 100 persons, the safety training shall be carried out at NPCIL's safety training centre.

For all works having manpower more than 100, the Contractors shall establish their own safety training centre having adequate seating capacity and infrastructure for training.

2.3 First aid training and safety induction training and shall be provided to all personnel of the contractors before issue of gate pass for entry into plant site.

2.4 After the induction safety training, the workmen should undergo refresher training once in every six months. Safety training card in prescribed format shall be issued to all workmen after completion of training.

The duration of the training shall be minimum four hours. The typical syllabus for the training is as follows:

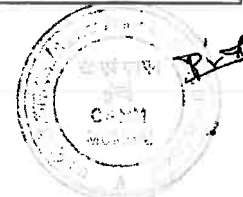
- Hazards at construction site. Use of personal protective equipment and their practical demonstration. Mock drill to ensure proper use of PPEs. Need for preventing accidents.
- Aims and Objectives of safety, pep talk, and housekeeping. Safety Work Permit and Authorization to work on system equipment. Height Pass training and briefing about hazard prompt list.
- DOs and DON'Ts on construction activities. Briefing about location of First aid/Fire station/Safety Section and their telephone numbers. Good safety practices of NPCIL plants.
- Films on construction safety and feedback.

2.5 The safety supervisors and the safety engineers will have to undergo refresher safety training in safety supervision and accident prevention techniques conducted by National safety Council or other recognized institutions once in a year.

3.0 **Requirements and specification of PPEs** (Ref. Clause 7.0 of GCC-EPC)

3.1 Contractor shall submit a list of PPEs that shall be used during the course of the work, to NPCIL before the commencement of work.

3.2 Contractors must maintain adequate stock of Personal Protective Equipment (PPE) and safety gears such as safety nets, fall arrestor systems, safety barricades, signage



etc. conforming to relevant Indian standards (or relevant international standards), required to be used during execution of the work.

- 3.3 These PPE's, tools and appliances must be inspected quarterly by Safety officer / Supervisor of Contractor and records of such inspection shall be submitted to NPCIL along with monthly safety report.

4.0 Work Practices (Ref : AERB Notification dated Nov 29, 2004. Pls. see Annexure-3)

The work work practices indicated in clause 4.1 to 4.9 below also shall be monitored for safety performance measurement as per clause 10 of GCC-EPC.

4.1 General (Ref. Clause 8.1 of GCC-EPC)

- 4.1.1 Prior to taking up the day's work, Pre Job Briefing/Pep talks will be carried out by Contractors' Site Engineer, Safety officer, Safety Supervisor or Site in charge involving all the workers.
- 4.1.2 The Contractor shall make arrangements for adequate and qualified supervision during the execution of jobs.
- 4.1.3 The Contractor shall ensure that safety work permits are taken for each high-risk job as per project procedures.
- 4.1.4 Job Hazard Analysis (JHA) shall be carried out for all high risk jobs or as advised by NPCIL Engineer-in-charge or Safety Officer.

4.2 Work at height (Ref . Clause 8.2 of GCC-EPC)

- 4.2.1 For carrying out work at height of more than 2.5 meters above floor/ground level, height pass should be provided for all the workers involved in the work as per procedure, which includes ascertaining medical fitness by Certifying surgeon and worker's physical test etc.
- 4.2.2 Height work permit shall be obtained for all the works carried out on temporary staging, platforms etc. above a height of 2.5 meters from stable floor or ground floor. All implements used for height work such as scaffold, access stairs/ladders, platform, railings etc should be certified by concerned Engineer prior to its use and to the effect that they should have a display card as "Safe for use". Wood, bamboo or other combustible materials shall not be used for making staging/scaffolds.

The minimum 1m width of working platforms shall be maintained. All scaffolds or staging shall have guard rails, mid rails and toe boards. Safe means of access by means of portable or fixed ladders, stairways or ramps shall be provided for all workplaces at height. Cross bracings or frames of scaffold shall not be permitted as means of access.

- 4.2.3 Safety nets, fall arrestor system, lifelines and other such additional safety measures commensurate with the location and nature of work shall also be provided. Full body safety harness with double lanyard shall only be allowed for work at height.



4.3 Excavation and civil works (Ref. Clause 8.0 of GCC-EPC)

- 4.3.1 Excavation (including rock blasting) shall be carried out under safety work permit system.
- 4.3.2 Excavation, rock blasting and associated civil works shall be carried out in accordance with procedure approved by NPCIL.
- 4.3.3 Excavated area shall be barricaded with rigid material. Adequate warning signs shall be placed around excavated area.
- 4.3.4 All excavators and earth moving machinery shall be inspected periodically for healthiness. Excavators and earth moving machinery shall be operated only by authorized operators.
- 4.3.5 Signalmen shall be posted with each excavator to guide the movement of vehicles.
- 4.3.6 Separate paths shall be provided for entry and exit of earth moving vehicles in excavated pits.
- 4.3.7 All machinery involved in civil works shall be inspected periodically for healthiness.
- 4.3.8 Staging and scaffoldings shall be inspected for healthiness and certified as safe for use.
- 4.3.9 Safe means of access shall always be ensured for movement of men and machinery in construction area. Adequate space shall be earmarked for storage of construction material.
- 4.3.10 All work areas shall have minimum illumination of 20 lux during night work

4.4 Electrical Safety (Ref Clause 8.0 of GCC-EPC)

- 4.4.1 All electric supply lines and electrical apparatus used at site shall be of sufficient ratings for power, insulation and estimated fault current and of sufficient mechanical strength, for the duty which they may be required to perform under the environmental conditions of installation, and shall be constructed, installed, protected, worked and maintained in such a manner as to ensure safety of human beings, animals and property. All such material and apparatus shall conform to requirements under relevant codes of Bureau of Indian Standards.
- 4.4.2 Earth pits in accordance with Rule 61 of Indian Electricity Rules, 1956 and as specified in IS 3043:1987, shall be provided and maintained at Contractor's work premises. Healthiness of earthing shall be checked physically at least once in a month and earth pit resistance shall be measured at least once in 6 months
- 4.4.3 All power distribution boards, electrically operated equipment/tools, cables, power extension boards etc. shall be inspected every month for ensuring their healthiness. Inspection stickers shall be affixed on all such equipment/tools.
- 4.4.4 Metal clad power sockets and plugs shall be used at worksites for extension of power to equipment. MCBs shall be used as isolation switch as well as overload protection device. Flexible cables used for extension of power shall be double sheathed three core type. Twisted insulated wires shall not be used for this purpose. The cables used shall be free of joints as far as practically possible. Where joints are essential, the same shall be made as per standard industrial practices. Joints made with insulating tapes shall not be allowed at workplaces.
- 4.4.5 Earth leakage protection shall be provided to all electrical equipment/tools/appliances using ELCB (sensitivity 30mA). ELCBs shall be inspected every month for their

healthiness. Apart from the power distribution boards, all extension boards shall also be provided with ELCBs. The specifications for power distribution boards and extension boards shall be in accordance with the requirements of NPCIL.

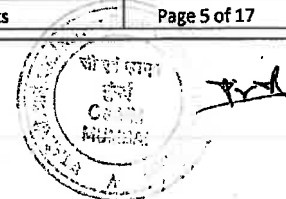
- 4.4.6 If use of electrical energy is required for execution of the work, the Contractor shall deploy qualified and licensed electrician(s). Minimum qualification for such electrician shall be ITI in electrical trade. He should also possess electrician/wireman license issued by concerned state government authority or authorized by concerned authority.
- 4.4.7 At least one portable fire extinguisher (DCP or CO₂) shall be provided near each power distribution board.
- 4.4.8 Rubber mats conforming to IS:15652 shall be used in front of all Power distribution boards.
- 4.4.9 Rubber hand gloves conforming to IS:4770 and Safety shoes shall be used by personnel working on electrical systems.

4.5 Material Handling (Ref Clause 8.0 of GCC-EPC)

- 4.5.1 All machinery, tools and tackles used for material handling such as cranes, chain pulleys, slings, shackles etc. shall be inspected at least once in 12 months by a Competent Person and records of such inspection shall be maintained. All machinery, tools and tackles used for material handling shall be conspicuously marked with safe working load, date of inspection/test and next due date for inspection/test.
- 4.5.2 All tools and tackles used for material handling shall be inspected once in a month at site prior to use and damaged/faulty/worn out equipment/tackles shall be immediately removed from the worksite.
- 4.5.3 Operation of cranes, fork lift trucks, winches etc. shall be carried out only by operators authorized for the purpose. Trained, experienced and authorized signalmen shall be deputed to give signals to the operators of material handling equipment. Except the designated signalman, no one should be allowed to give signals during material handling operations.
- 4.5.4 All cranes, fork lift trucks, winches etc. shall be thoroughly inspected once in a month at site by the contractor.

4.6 Welding, Gas cutting and other hot works (Ref Clause 8.0 of GCC-EPC)

- 4.6.1 Welding machines, gas cutting sets, blow torches, gas cylinders and accessories etc. as well as the connections shall be inspected for their healthiness prior to use.
- 4.6.2 The return cable of arc welding machine shall be connected to the job. Connecting the return cable to nearest earthed structure shall not be permitted for this purpose. Standard connectors shall be used for connecting welding cables to the welding machine. The current regulator shall also be connected using standard connectors. Use of unsafe means to connect welding cables or regulator shall be avoided.
- 4.6.3 Welding cables shall be free from joints. In unavoidable cases, the joints shall be adequately insulated both thermally and electrically.
- 4.6.4 Flashback arrestors shall be provided at torch end as well as cylinder end in gas cutting sets.



- 4.6.5 Suitable trolleys shall be used to securely keep and shift the oxygen and DA/Industrial LPG cylinders.
- 4.6.6 Industrial LPG cylinders shall only be used for hot work. Domestic or commercial LPG cylinders shall not be used for this purpose.
- 4.6.7 At least one fire extinguisher shall be provided at each location of hot work.
- 4.6.8 All the gas cylinders shall be painted as per standard colour coding. Valve caps shall be provided on cylinder, when not in use.
- 4.6.9 Gas cylinders shall not be dropped or rolled.
- 4.6.10 During carrying out hot works, suitable fire preventive measures like, removal of combustible material from the work area, use of fire resistant blankets etc. shall be strictly followed.

4.7 Safe storage of material (Ref Clause 8.0 of GCC-EPC)

- 4.7.1 Contractors shall ensure suitable and adequate place for storage of their material as well as material issued by NPCIL. The storage shall be done as per the standard storage requirements based on physical and chemical properties of the material.
- 4.7.2 Steel structural material, reinforcement rods etc. shall be properly stacked with adequate spacers. The height of the stacked material shall be restricted so as to maintain stability of the pile.
- 4.7.3 Gas cylinders shall not be stored in open places exposed to sunlight & rain. Storage of gas cylinders shall be done in designated sheds/rooms. Empty and filled cylinders shall be stored separately. Flammable gas cylinders shall not be stored along with oxygen cylinders. Valve caps shall be provided on the cylinders and adequate chaining arrangement shall be provided for protecting the cylinders against falling.
- 4.7.4 Flammable liquids shall be stored in pre-designated areas having adequate ventilation and fire fighting arrangements.
- 4.7.5 Corrosive chemicals shall be stored in accordance with the instructions given in Material Safety Data Sheet (MSDS). First aid measures for neutralizing the effects of the chemical shall be made available near the storage area.
- 4.7.6 Smoking of beedi / cigarettes shall be strictly prohibited and sources of ignition shall be strictly controlled in storage areas.

4.8 Fire protection and Fire fighting arrangements (Ref Clause 8.0 of GCC-EPC)

- 4.8.1 In accordance with the nature of material used during the execution of the job, suitable fire protection and fire fighting arrangements, shall be ensured by the Contractor.
- 4.8.2 Based on the fire load, sufficient numbers of portable fire extinguishers shall be made available at worksites.
- 4.8.3 All unwanted combustibles shall be removed from the worksites on daily basis. If storage required inside plant area 'transit permit' should be obtained.
- 4.8.4 For breaching of Fire barrier, 'Breaching of Fire barrier permit' should be obtained.
- 4.8.5 Before starting cutting or welding, CWP should be obtained and welder should carry Fire extinguisher to the work location.



Handwritten signature or initials.

4.9 Transportation of man and material (Ref. Clause 8.3 of GCC-EPC)

- 4.9.1 Contractor shall ensure safe movement of man and material as well as vehicles within site premises as per applicable rules/regulations. Non-roadworthy vehicles shall not be allowed at worksites.
- 4.9.2 Vehicles used for transportation of material shall not be used to transport workers.
- 4.9.3 Overloading of vehicles shall be strictly prohibited.
- 4.9.4 Protective helmets (IS 4151:1993) shall be used by all two wheeler drivers.
- 4.9.5 Vehicles shall have a valid registration, fitness and PUC certificates. Drivers shall have valid driving license.
- 4.9.6 Vehicles shall be inspected for healthiness once in a month.
- 4.9.7 Material transported on flat bed trailers shall be properly lashed to prevent fall of material.
- 4.9.8 Transportation of ODC/OWC material shall be done only with prior permission from NPCIL. Adequate warning flags/lights and escorts shall be provided during such movements.
- 4.9.9 Reversing horns shall be provided in all vehicles.

4.10 Housekeeping

- 4.9.1 The Contractor shall at all times keep his work spot, site office and surroundings clean and tidy from rubbish, scrap, surplus materials and unwanted tools and equipment.
- 4.9.2 Welding and other electrical cables shall be so routed as to allow safe traffic by all concerned.
- 4.9.3 No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The Engineer-In-Charge may require the Contractor to remove any materials which are considered to be of danger or cause inconvenience to the public. If necessary, the Engineer-In-Charge may cause them to be removed at the Contractor's cost.
- 4.9.4 At the completion of the work, the Contractor shall have removed from the work premises all scaffoldings, surplus materials, rubbish and all huts and sanitary arrangements used/installed for his workmen on the site.
- 4.9.5 The Engineer-In-Charge has the right to stop work if the Contractor fails to improve upon the housekeeping after having been notified.

The safety requirements to be followed at worksites are not limited to those mentioned above. All statutory safety requirements mandated under various applicable Acts and Rules enacted by the Government of India shall invariably be followed at KKNPP-3&4. Violation of statutory requirements shall attract punitive/penal actions. In addition, the safety violations during the execution of the present contract will be used as one of the factors for the performance evaluation of the Contractor, which in turn will be used for evaluation of future contracts.



Similarly, the requirements brought out in AERB Safety Guidelines 'Control of Works', which is a part of the contract documents, shall also invariably be followed and shall have precedence in case of contradictions between the clauses of tender.

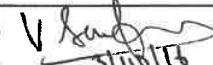
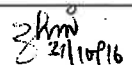
Detailed procedures, guidelines, manuals etc. on various aspects of industrial safety periodically issued by NPCIL as a part of the continual improvement process, shall also be followed by the Contractors.

All concerned Section Heads/Engineers-in-charge of the EPC contracts shall be responsible for implementation of these instructions during all stages of execution of the work.

5.0 Payment linked with safety performance (Ref: Clause 10 of GCC-EPC)

As indicated in the GCC-EPC, 2% of the payment of value of Work Order or RA Bill shall be based on the safety performance as per Annexure-1 - the checklist - NPCIL/04710/Safety/2006/M/Checklist No.02/KKNPP/R2 - enclosed herewith.

The quantum of payment linked with safety performance to be paid shall be recommended on the basis of check list during monthly Sectional Safety Committee meetings, based on the status of compliance of Safety Related Deficiencies (SRD) reports issued to respective contractors. The committee shall assess the status of compliance of SRD reports by carrying out survey of workplace. Concerned Engineers-in-charge shall recommend the amount to be paid in the monthly RA bill.

Prepared by	Checked by	Reviewed by	Concurred by	Approved by
 31/10/16. T.N. Praju SO/D (IS&F)	 31.10.16 P.K. Khare OIC (IS&F)	 31/10/16 V. Sankaranarayanan ACE (BOP)	 21/10/16 Jayakrishnan S CCE	 21/11/2016 P.A. Pillai Project Director

Annexure -1

NPCIL/04710/Safety/2006/M/Checklist No.02/KKNPP/R2

Checklist cum Certificate for RA Bill payment based on Safety Performance

Sr. No.	Safety Parameters	Safety Clause as per GCC	% of Running Account (RA) bill for safety compliance	Actual payable
01.	Safety Professional Required no. of Safety Professionals deployed at site as per clause.	4.1, 4.2 & 4.4	0.4% of RA Bill (Max.) 0.0% if requisite no. of Safety professionals are not posted at site within one month. For partial deployment of safety professionals, payment shall be on pro rata basis considering weightage for Safety officer as 1.5 times that for safety supervisor	
02	Safety Training i) Safety training imparted to all workers (100%). ii) Safety training imparted to <80% of its workers.	6.0	0.4% of RA Bill (Max.) 0.0% of RA Bill If safety training provided is less than 100% but more than or equal to 80 % of workers, then payment shall be made on pro rata basis.	
03.	Use of proper PPEs & tools, Safe Working condition/ practices.	7.1 & 7.2	0.4% of RA Bill (Max.) 0.0% of RA Bill if more than 10 SRDs for unsafe conditions/ practices are issued and such SRDs are not rectified in specified time. In case SRDs not rectified in specified time are in the range of 1 to 10, payment shall be made on pro rata basis.	



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Sr. No.	Safety Parameters	Safety Clause as per GCC	% of Running Account (RA) bill for safety compliance	Actual payable
04	Work Practices 4.1,4.3 to 4.8 Adherence to Pre-job briefing, JHA, Safety work permit & safe working procedure for hazardous works, safety aspects pertaining to electrical safety, material handling, excavation & civil works, welding, gas cutting & hot works, fire protection & fire fighting and housekeeping. 4.2 All employees working at height have height pass.	8.1, 8.2	0.3% of RA Bill (Max.) 0.0% of RA Bill value if more than 5 SRDs issued as per condition given in clause 8.1 and are not rectified in specified time. In case pending SRDs as above are in the range of 1 to 5, payment will be made on pro rata basis. 0.3% of RA Bill (Max.) 0.0% of RA Bill value for more than 5 SRDs are issued in a month as per condition given in clause 8.2 and are not rectified in specific time. In case pending SRDs as above are in the range of 1 to 5, payment will be made on pro rata basis.	
05	4.9 Safe movement of man and material as per rules and regulation applicable at the site.	8.3	0.2% of RA Bill (Max.) 0.0% of RA Bill if more than 5 SRDs are issued in a month and are not rectified in specified time as per clause 8.3 In case pending SRDs as above are in the range of 1 to 5, payment will be made on pro rata basis.	
06	Serious accident Fatal accident	11	Lump sum for each accident where loss of man days is 21 days or more, ₹ 10000/- each occasion For each fatality, ₹ 1000000/-	

Payment certified by :

Engineer in-charge (works)

Head (IS&F)/Safety committee representative

Chairman of Sectional Safety Committee

Payment accepted by : Project Manager/Site In-charge (Contractor)



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प्रोफेसर सु. पां. सुखात्मे
अध्यक्ष
Prof. S. P. SUKHATME
CHAIRMAN

भारत सरकार
परमाणु ऊर्जा नियामक परिषद
6 ठी मंजिल, नियामक भवन,
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भारत.

GOVERNMENT OF INDIA
ATOMIC ENERGY REGULATORY BOARD
6TH FLOOR, NIYAMAK BHAVAN,
ANUSHAKTI NAGAR, MUMBAI - 400 094.
INDIA.

July 8, 2002

NOTIFICATION

Subject: Industrial Safety Personnel at Construction Sites

Reference: (1) Section 40-B of the Factories Act, 1948

(2) Rule 43 of the Atomic Energy (Factories) Rules, 1996

The construction and erection activities in the Units of the Department of Atomic Energy under the purview of AERB have been reviewed in view of the large number of projects currently under execution. Considering the nature of the work, it is necessary to have a certain minimum number of Safety Officers and Safety Supervisors in each shift. The purpose of this notification is to specify the minimum number of personnel needed from the point of view of industrial safety.

Based on the provisions of the Factories Act, 1948 and the Atomic Energy (Factories) Rules, 1996, (References 1 and 2 above), it is hereby notified that all the construction and erection sites of the Department of Atomic Energy (under the purview of AERB) shall have a minimum number of officers and supervisors as below. These persons should be working exclusively for industrial safety.

Head, Industrial Safety: Qualifications: Degree in Engineering with Diploma in Industrial Safety

Number: 1

Safety Officers : Qualifications: Same as Head, Industrial Safety

Number: 1 in each shift (minimum).

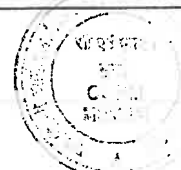
If number of workers in a shift (including contractors' workers) exceeds 1000, additionally 1 Safety Officer shall be appointed for every 1000 workers.

Safety Supervisors: Qualifications: Diplomain Engineering and Diploma in Industrial Safety or 6 years experience.

Number: 2 in each shift (minimum).

If number of persons working in a shift (including the contractors' workers) exceeds 1000, additionally 1 Safety Supervisor shall be appointed for every 500 workers.

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The placement of the required number of industrial safety personnel at all construction sites is to be ensured by the Project authorities before the start of excavation, construction and erection activities at the approved sites and augmented progressively as the activities increase. For on-going projects, the required number of industrial safety personnel should be in position within 3 months from the date of this notification and AERB shall be informed of the compliance of this notification.

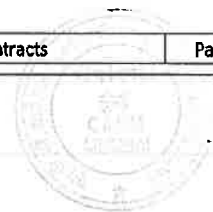
The number of industrial safety personnel can be a mix of both Departmental and the major Contractor's personnel in the approximate ratio of 1:3. However, Head, Industrial Safety is a Departmental position. It must also be ensured that there is at least one departmental person in each shift.

Sukhas P. Sukhatme

(Competent Authority)

Heads of DAE Units

**C.C. Vice Chairman, AERB
Heads of Divisions, AERB**



PS



प्रोफेसर सु. पां. सुखात्मे
अध्यक्ष
Prof. S. P. SUKHATME
CHAIRMAN

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ATOMIC ENERGY REGULATORY BOARD
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ANUSHAKTI NAGAR, MUMBAI - 400 094
INDIA.

AERB / IPSD / PKG / 2004 / 8274

November 29, 2004

NOTIFICATION

**Subject: Empowerment of Inspectors – Power To Stop Work
in case of unsafe conditions at the work spot**

Reference: Section 8 of the Factories Act, 1948
Rule 6 of the Atomic Energy (Factories) Rules, 1996
Rule 102 of the Atomic Energy (Factories) Rules, 1996

In view of the large number of projects currently under execution and large scale maintenance activity in operating plants, industrial safety aspects in the units of the Department of Atomic Energy under the purview of the Atomic Energy Regulatory Board were reviewed in a Discussion Meeting on July 15, 2004. Considering the nature of the work and accident potential, it was felt necessary that certain minimum industrial safety requirements must met by the Units. It was agreed that violation of these requirements could result in suspension of work. The purpose of this Notification is to specify the minimum industrial safety requirements and to empower AERB Inspectors to order suspension of work if these requirements are not in place in a plant/site.

Based on the provisions of the Factories Act, 1948 and the Atomic Energy (Factories) Rules, 1996 it is hereby notified that AERB Inspectors shall have power to stop work in case the industrial safety requirements as stipulated in the Annexure are not in place.

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While exercising the above enforcement action in any of the DAE's operating plants or construction sites, the following modalities shall be followed:

1. The Inspector shall immediately communicate to Chairman/Vice Chairman, AERB about the prevailing situations orally and seek oral approval for cessation of activity/stoppage of work. A note ordering the same shall be given on the spot by the Inspector with his/her signature and a formal order by the Competent Authority will be issued subsequently.
2. The Occupier shall take the necessary corrective action and inform Chairman/Vice Chairman, AERB about the actions taken. The Inspector will again visit the work spot and give his/her recommendation for resumption of work after satisfying himself/herself that the industrial safety requirement is in place.
3. A written order for the resumption of the suspended work will be issued by the Chairman/Vice Chairman, AERB based on the report of the AERB inspector.

Suresh P. Subhakar
(Competent Authority)

**Unit Heads (Operating plants and Construction sites)
All AERB Inspectors under the Factories Act**

**Copy to: Vice Chairman, AERB
Chairman & Managing Director, NPCIL
Chairman & Managing Director, IREL
Chairman & Managing Director, UCIL
Chairman & Managing Director, ECIL
Chairman & Chief Executive, Heavy Water Board
Chairman & Chief Executive, Nuclear Fuel Complex
Chief Executive BRIT**



ANNEXURE**Minimum safety precautions needed at any plant or site****1. Working at Height:**

- i) All open sides of a structure above a height of 3.5 metres from which a worker might fall and openings into which a worker might fall should be adequately covered or barricaded. Every opening in the floor of a building, or in a working platform shall be provided with suitable means to prevent fall of persons or materials by providing suitable fencing/railing of 1 m.
- ii) Where barricades can not be installed, a safety net should be installed close to the level at which there is a danger of a fall. During erection of tall buildings/structures, above 3.5 m height nylon nets shall be provided to ensure safety of men if there is a fall from height in case it is not possible to provide barricades.
- iii) Where a secure foothold is impracticable, safety belts or harnesses with secure anchorage points should be provided at the working place as well as access to the access path to the working spot. All persons working at heights more than 3.5 m above ground or floor and exposed to the hazard of falling down shall use safety belts.
- iv) At elevated places, secure access and foothold should be provided. Adequate and safe means of access and exit shall be provided at all work places for all elevations. Means of access may be portable or fixed ladder, ramp or a stairway. The use of cross braces or frame work as a means of access to the working surface shall not be permitted.
- v) Scaffolding or staging 3.5 m above the ground floor shall have a guard rail properly attached, bolted, braced or otherwise secured at least 1 m high above the floor and platform.
- vi) Where the platform is more than 3.5 m above ground floor for working standing on the platform, the width should be minimum 1 m.



2. Excavation Works:

- i) Means for rapid access and egress should be provided. All trenches 120 cm or more in depth shall at all times be supplied with at least one ladder for every 30 m along the trench. The ladders shall extend from the bottom of the trench to at least 1 m above the surface of the ground.
- ii) Workers should not be exposed to the danger of being buried by excavated material or collapse of shoring. Measures to prevent dislodgment of loose or unstable earth, rock or other material from falling into the excavation by proper shoring shall be ensured.
- iii) Persons who are not engaged in excavation work shall be prevented from approaching excavation areas by placing warning signals, barricades, etc. near the site of the excavation.
- iv) Excavated material shall not be dumped within 1.5 m of the edges.
- v) An excavated area shall have an illumination level of at least 20 lux for night work.

3. Material Handling Operations:

- i) No lifting machine, chain, rope or lifting tackle shall be taken into use for the first time unless it has been tested and examined by a Competent Person. A certificate of such a test/examination specifying the safe working load and signed by the person making the test/examination should be available for inspection.
- ii) Cranes shall be operated only by authorised persons who are well trained and experienced.
- iii) Inspection and maintenance of material handling equipment should be frequently scheduled. Load testing of cranes at specified loads shall be carried out by the Competent Person at least once in twelve months.



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4. Portable Electrical Equipment

- i) All portable appliances which are powered by single phase AC supply shall be provided with three core cable and three pin plug or whole body should be double insulated.
- ii) All connections to portable equipment or machines from the panel/distribution board/extension board shall be taken using 3 core double insulated PVC flexible copper wire in one length.
- iii) Earth Leakage Circuit Breaker should be provided.

5. Fire Safety:

- i) Personnel trained in fire safety shall always be available on the site.
- ii) Flammable materials should be stored away from the source of ignition such as generators, welding sets and electrical distribution boxes.

6. Personal Protective Equipment:

It shall be ensured that commensurate with the nature of job appropriate PPEs with ISI marking are used by the workers.

7. Working in Confined Space:

No person should enter in any confined space like tanks, pit chamber etc. in which gas, fumes, vapours, dust is likely to be present to such extent that it may endanger his/her health without safety work permit.

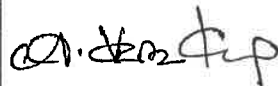
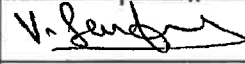


 न्यूक्लियर पावर कॉर्पोरेशन ऑफ इंडिया लिमिटेड NPCIL	NUCLEAR POWER CORPORATION OF INDIA LIMITED (A GOVERNMENT OF INDIA ENTERPRISE)	Project Instruction no: 101.KK34.0.0.QA.PIN.P003
	KUDANKULAM NUCLEAR POWER PROJECT	Date of Issue:
	Project Instruction on Housekeeping for EPC.	May'2016

Project Instruction on Housekeeping.- Housekeeping Clauses in Tender Document for Engineering, Procurement and Construction contract.

Revision control sheet

Sl no	Rev No	Date of issue	No of pages	Details of revision
1	R0	May, 2016	10	

Activity	Name	Designation	Date	Signature
Prepared By	A. Venkatakumar	ENC(M-9)	30/5/2016	
Checked By	P.K.Khare.	Head(IS&F) KK1 to 6.	31/5/2016	
Reviewed By	Sankaranarayanan.V	ACE(BoP)	31/5/16	
Concurred By	Jayakrishnan.S	Chief Construction Engineer	06/06/16	
Approved By	P.A.Pillai	Project Director	06.06.16	

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 दिनांक/Date.. 07/06/16

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Project Instruction No./Rev. No.	I01.KK34.0.0.QA.PIN.P003- R0
Date of issue	May' 2016
Old PI No(if any)	Nil
Original PI Issued on	NA
Concerned Sections	All Sections
Responsible Agencies for implementation	(i) Engineers-in-charge of the contract (ii) Site In-charge of the Contractors (iii) IS&F-NPCIL

Title: Housekeeping Clauses in Tender Document for Engineering, Procurement and Construction contract

With a view to elaborate upon various Housekeeping requirements to be fulfilled under Engineering, Procurement and Construction contracts, as brought out in the Special Conditions of Contract and also to strengthen the Industrial housekeeping at KKNPP-3&4 in general, following clauses on housekeeping are to be incorporated in Section-III (Special conditions of contract) of the tender document for all future Engineering, Procurement and Construction contracts.

1.0 Housekeeping organization of the Contractor

1.1 With reference to deployment of housekeeping supervisor, the following minimum requirement shall be fulfilled:

Sr. No.	Manpower per Shift	Housekeeping In charge	No. of Supervisors to be appointed	No. of workmen to be appointed
1	Up to 100	0	01	Minimum one
2	100 to 500	01	02	sweeper/ helper per every 400 Sq Mtrs of area. Man power shall be increased cater to the requirement.
3	Above 500		1 for every addl. 500 workers in addition to number mentioned against Sr. No. 2	

1.2 Qualification of housekeeping supervisor shall be as follows:

- **Housekeeping In charge** : Any Degree with one year project/ industrial experience / any Diploma in engineering with two years project/ Industrial experience.
- **Housekeeping Supervisor** : +2 with one year Project/ Industrial experience or Any diploma in engineering (preference may be given to personal with fire and safety qualification)

2.0 Training requirements

2.1 Along with the induction safety training, the workmen should undergo housekeeping training.

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2.2 Housekeeping workers shall undergo training in usage of housekeeping equipments and tools such as vacuum cleaners.

2.3 The typical syllabus for the training is as follows

- Aims and Objectives of housekeeping.
- DOs and DON'Ts on construction housekeeping activities.
- General safety requirements at construction sites
- Films on construction safety and housekeeping and feedback.

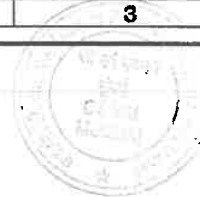
3.0 Requirements and specification of Tools

- Contractor shall submit a list of housekeeping tools that shall be used during the course of the work, to NPCIL before the commencement of work.
- Contractors must maintain adequate stock of housekeeping tools (HKT) and as given below required to be used during execution of the work.
- These tools and appliances must be inspected quarterly and availability shall be ensured by housekeeping supervisor of Contractor and records of such inspection shall be maintained.

Sl. No.	Description	Minimum Qty. required/available at any given time (in nos) for one major building.
1	Industrial vacuum cleaner (with wet mopping facility)	1
2	Cob webs remover	2
3	Brooms	8
4	CS / Plastic Dustbin	8
5	Trolley	2
6	Ladders (3mtrs)	2
7	Waste carrying baskets	4
8	Ladders (6mtrs)	1
9	V type ladders	1
10	Cleaning brushes	10
11	Caution board (wet cleaning and cleaning in progress)	16
12	Wet and dry cleaning duster/cloths	4
13	Dewatering pumps along with hoses and other accessories.	2

Additional quantity of above equipment and any other item required for works shall be arranged by Contractor without any extra cost. All the major buildings shall be equipped with above tools and for smaller building and structures tools from a common pool shall be used.

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4.0 HOUSE KEEPING WORK PRACTICES:

Housekeeping is very essential activity to provide safe working area for construction personnel and for safe movement of the machineries.

From the time of release of area/fronts EPC Contractor is responsible for maintaining and up keeping of the areas/ SSC under this contract. From this point of time onwards till all works of the Contractor in the building is completed, it shall be the responsibility of the Contractor to maintain good housekeeping.

Also, Contractor has to maintain certain housekeeping practices for contractor's works at workshop, machine shop, welding and fabrication shop, office, storage yard etc.,

Overall responsibility of housekeeping of the assigned area/ shall lie with the Contractor

- 4.1. **Scope of work** is detailed as below. No separate payment shall be made for this work and its cost to be included in the quoted price of items/systems/plants

All the Clauses shall be read in conjunction with relevant clause 26 of SCC.

- i) The Contractor shall at all time keep his work spot, site office, workshops and surroundings clean and tidy from rubbish, scrap, surplus materials and unwanted tools and equipment.
- ii) Welding and other electrical cables shall be so routed to allow safe traffic by all concerned. Cables shall not be spread on floor; it shall be properly supported / clamped along the wall.
- iii) No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The Engineer-In-Charge may request the Contractor to remove any materials which are considered to be of danger or cause inconvenience to the public. In case Contractor fails to comply with the instruction of Engineer-In-Charge, he may get the work done at the risk and cost of the Contractor.
- iv) The Contractor shall on day to day basis remove from the work place all unwanted scaffoldings, surplus materials, rubbish, etc.
- v) The Engineer-In-Charge has the right to stop work if the Contractor fails to improve upon the housekeeping after having been notified.
- vi) Contractor shall keep supervisor and supporting staff exclusively for housekeeping of own works.
- vii) Contractor shall submit the minimum manpower deployment schedule on monthly basis based on the approved housekeeping plan/ schedule for the approval of the ENC.

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- viii) Food shall be taken in designated place. Food waste shall be collected shall not be left and spread all along. All temporary packing materials shall be stacked properly with caution board and shall be removed on regular basis.

4.2 General description of work

SL NO	OPERATION	MINIMUM FREQUENCY OF OPERATION
1	Removal of all debris, Cleaning and Sweeping of construction area, all floors, staircase, platform, and wiping of handrails, equipment, JBs, pipes, etc	Daily
2	Wet mopping of floors	Weekly
3	Vacuum cleaning of floors	Monthly
4	Debris removal from dust bin, baskets placed in the respective building.	weekly or as and when required
5	Dewatering of areas	As and when required

4.3. Scope for execution of housekeeping work:

1. Cleaning and sweeping of construction area, storage area, floors, staircase, platform, anything and everything up to ceiling height and ceiling, as per the frequency indicated in the table.
2. Removal of cob webs, Removal of various debris, wastes and putting the collected debris other than structural materials in the dustbin kept at the specified location on every day basis for the different areas as per agreed schedule.
3. Cutting of bushes and up keeping of open storage areas
4. Lifting, carrying, transportation and disposal of all generated debris such as structural pieces, cable pieces, cable trays, ducts, wooden pieces, packing materials, piping material etc. debris collected in various bins/baskets and all other generated scrap from allotted building/area to within a distance of 2 Km on once in a week or as and when required.
5. The Contractor shall arrange his own equipment's and tools required for this work like trolleys, ladders, buckets, dust bins, brooms, industrial vacuum cleaner, brushes, wiping cloths or any other material required for the cleaning.
6. The storage and security of his materials and equipment shall be the sole responsibility of the Contractor and shall have no right to claim for any loss/theft or damage of the same.

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7. The exclusive work force shall be deputed for the this work and work force deployed for this general housekeeping shall not be diverted for any other job or for his own house keeping jobs.
8. All deployed work force shall be provided with dress (with proper code), safety and cleaning gears and in no case work should stop for want of gears.

4.4. Providing work force / staff:

The Contractor shall deploy adequate manpower as per clause 1.1 at his own account & responsibility. At the time of allotment of the area for up keeping, the name of EPC contractor's officials in charge for housekeeping, herein after referred as "Housekeeping area in charge" (HAIC) of the area shall be conveyed by the Contractor to the ENC. These HAIC shall report the daily performance to the HIC and ENC or his authorised representative.

4.5. Reporting:

- 1) The Housekeeping Supervisor(s) should report daily to the HIC & take day-to-day instructions.
- 2) The Contractor shall make sure that Housekeeping Supervisor(s) is necessarily available during working hours for receiving & implementing the Instructions of the HIC.
- 3) It shall be the responsibility of the Contractor to get the attendance of the housekeeping staff verified by HIC.
- 4) The weekly / fortnightly / monthly jobs should be planned by Housekeeping Supervisor(s) in consultation with HIC in such a manner that these are spread over the entire week and done during office hours.
- 5) However, certain jobs will necessarily be carried out during Sundays, for which instructions should be taken by the Housekeeping Supervisor(s) from HIC.
- 6) Proper registers/records of the jobs carried out on daily, weekly, fortnightly and monthly basis will be maintained by the Housekeeping Supervisor and will be countersigned by the HIC on daily basis and finally at the end of each month by ENC. Approval of ENC shall be obtained for the report formats..
- 7) Housekeeping Supervisor shall remain in his area most of the time and shall have information about agencies working/ material stacked in his area. Suitable control system may be devised for the same.
- 8) The Contractor shall be equipped to handle the special/emergency services even at short notice.
- 9) All equipment deployed shall be of quality standard.

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- 10) Housekeeping Supervisor shall not allow those materials which affect the up keeping and fire hazards to building. Ex: wooden planks, drums, are scaffolding materials which are not painted.

5.0. Sanitation / toilet facility at work site

- 5.1. Contractor shall establish toilet facility comprising of urinals and IWCs within the construction site along with water supply arrangements, disposal of waste, lighting, ventilation, washing facility, drainage arrangement, cleaning facility, etc., and shall maintain them in clean condition at all times by deploying suitable persons.
- 5.2. The numbers and the location of these toilet blocks shall be decided with the consent of Engineer and in line with GCC guidelines. As guidance, contractor may adopt the design of public toilet facilities provided by M/s. Sulabh International. For disposal of the sewage, NPCIL STP may be used.

6.0 Disposal of waste and debris.

Contractor shall arrange suitable portable metallic storage bins to temporarily store construction materials at site. No material shall be allowed to be spread at site directly on roads / floors. All garbage and waste material shall be disposed off regularly at the designated area as specified by the engineer.

The stagnant water shall be regularly removed from various area / floors by adopting temporary dewatering scheme in the buildings and maintain the site in hygienic condition.

All soil, filth or other matter of an offensive nature taken out of any trench, sewer, drain, cesspool or other place shall not be deposited on the surface, but shall at once be carried away by Contractor, from the site of work for suitable and proper disposal

7.0 Payment linked with Housekeeping performance

As indicated in the SCC-EPC, 1% of the payment of value of Running account (RA) Bill of Work Order/ purchase order for civil design, construction ,erection and commissioning work (site work portion) shall be based on the Housekeeping performance as per Annexure-1 enclosed herewith.

The quantum of payment linked with Housekeeping performance to be paid shall be recommended on the basis of check list during monthly Sectional Safety Committee meetings, based on the status of compliance of Safety Related Deficiencies (SRD) issued on housekeeping deficiencies to respective contractors. The committee shall assess the status of compliance of SRD reports by carrying out survey of workplace when ever required. Concerned Engineers-in-charge shall recommend the amount to be paid in the monthly RA bill.

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ANNEXURE I**Checklist cum Certificate for RA Bill payment based on housekeeping Performance**

Sr. No.	Housekeeping Parameters	Clause	% of Running Account (RA) bill for compliance	Actual payable
01.	Housekeeping Professional Required no of Housekeeping Professionals deployed at site as per clause.	1	0.1% of RA Bill (Max.) 0.0% if requisite no. of professionals are not posted at site within one month	
02.	Use of proper Housekeeping tools,	3	0.1% (Max.) of RA Bill 0.0% of RA Bill if more than 10 violations (SRD) of improper tool use are observed.	
03	Work Practices 4.1 Adherence to housekeeping practices as per manual. verification and certification of cleanliness of office, works shops, fabrication shops, store area 4.2 Adherence to housekeeping practices as per manual. verification and certification of cleanliness of project (site) working area.	4	0.2% of RA Bill (Max.) 0.0% of RA Bill value if more than 10 cases (SRD) as per condition given in clause 4 0.3% of RA Bill (Max.) 0.0% of RA Bill value for more than 10 cases (SRD) as per condition given in clause 4	
04	Sanitation requirements Establishing toilet facility comprising of urinals and IWCs within the construction site along with water supply arrangements, disposal of waste, lighting, ventilation, washing facility, drainage arrangement, cleaning facility, etc., and shall maintain them in clean condition at all times by deploying suitable persons	5	0.2% of RA Bill (Max.) 0.0% of RA Bill value for more than 5 cases (SRD) as per condition given in clause 5	
06	<u>Disposal of waste material</u> as per rule and regulation applicable at the site.	6	0.1% of RA Bill (Max.) 0.0% of RA Bill if more	

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CS

Sr. No.	Housekeeping Parameters	Clause	% of Running Account (RA) bill for compliance	Actual payable
			than 5 violations were observed in a month as per clause 6	

Note: When the safety (housekeeping) related deficiencies (SRD) on housekeeping are between 0 and the maximum number indicated in the clauses the payment shall be made on prorata basis.

Payment certified by :

Engineer in-charge (works)

Head (IS&F)/ Safety committee
representative

Chairman of Sectional Safety Committee

Project Instructions on housekeeping- EPC	ISSUE DATE	REVISION	PAGE NUMBER
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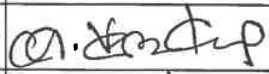
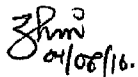
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 एनपीसीआईएल NPCIL	NUCLEAR POWER CORPORATION OF INDIA LIMITED (A GOVERNMENT OF INDIA ENTERPRISE) KUDANKULAM NUCLEAR POWER PROJECT	Project Instruction no: I01.KK34.0.0.QA.PIN.P002
	Project Instruction on Preservation for EPC.	Date of Issue: May'2016

Project Instruction on Preservation : Preservation Clauses in Tender Document for Engineering, Procurement and Construction contract.

Revision control sheet

Sl no	Rev No	Date of issue	No. of pages	Details of revision
1	R0	May 2016	8	

Activity	Name	Designation	Date	Signature
Prepared By	A. Venkata Kumar	ENC(M-9)	30/5/2016	
Reviewed By	Sankaranarayanan.V	ACE(BoP)	31/5/16	
Concurred By	Jayakrishnan.S	Chief Construction Engineer	31/05/16	
Approved By	P.A. Pillai	Project Director	03.06.2016	

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Project Instruction No./Rev. No.	I01.KK34.0.0.QA.PIN.P002-R0
Date of issue	May' 2016
Old PI No(if any)	Nil
Original PI Issued on	NA
Concerned Sections	All Sections
Responsible Agencies for implementation	(i) Engineers-in-charge of the contract (ii) Site In-charge of the Contractors (iii) IS&F-NPCIL

Title: Preservation Clauses in Tender Documents for Engineering, Procurement and Construction contracts

With a view to elaborate upon various Preservation requirements to be fulfilled under Engineering, Procurement and Construction contracts, as brought out in the Special Conditions of Contract and also to strengthen the Industrial Preservation at KKNPP-3&4 in general, following Preservation clauses are to be incorporated in Section-III (Special conditions of contract) of the tender document for all future Engineering, Procurement and Construction contracts.

1.0 organization of the Contractor for preservation work

1.1 With reference to deployment of supervisor, the following minimum requirement shall be fulfilled:

Sr. No.	Manpower per Shift	In charge	No. of Supervisors to be appointed
1	Up to 100	0	01
2	100 to 500	01	02
3	Above 500		1 for every addl. 500 workers in addition to number mentioned against Sr. No. 2

1.2 Qualification of In charge and supervisor shall be as follows:

- **Preservation In charge (PIC)** : Any Degree / Diploma in engineering with three years project/ Industrial experience
- **Preservation Supervisor** : Any diploma in Engineering with one year Project/ Industrial experience

2.0 Training requirements

2.1 **Preservation Training** for contract persons shall be provided by the Contractor along with safety training or separately.

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The duration of the training shall be minimum one hour. The typical syllabus for the training is as follows:

- Hazards at construction site. Use of Preservation tools /equipment and their practical demonstration.
- Aims and Objectives of Preservation.
- DOs and DON'Ts on construction Preservation activities.

3.0 Requirements of Infrastructure and Tools

- Contractor shall submit a list of Preservation facilities and tools that shall be used during the course of the work, to NPCIL before the commencement of work.
- Contractors must establish necessary ware houses, storage racks etc for storage of materials and maintain adequate stock of Preservation tools (PT) and as given below conforming to relevant Indian / international standards, required to be used during execution of the work.

Sl. No.	Description	Minimum Qty. required/available at any given time (in nos) for one major building.
1	Establishment of storage facility for various materials - Ware houses	As per manufacturer requirements
2	Establishment of storage facility - Storage racks	As per material stock
3	Establishment of special storage facility for Electrodes.	As per manufacturer requirements
4	Painting items and tools	As required.
5	Nitrogen Gas cylinders	As required.
6	Plastic end caps for pipes, fittings, valves	As required.
7	Valve storage racks/ stands	As required.
8	Grease (approved makes)	As required.
9	cotton waste etc	As required.

- These tools and appliances must be inspected quarterly by Preservation supervisor of Contractor and records of such inspection shall be maintained.

Additional quantity of above facilities and tools and any other item required for works shall be arranged by Contractor without any extra cost.

4.0 PRESERVATION WORK PRACTICES:

Preservation is very essential to maintain the SSC in as built condition till handing over to NPCIL. In order to achieve this objective preservation procedure shall be developed as per manufacturer's recommendation and tender requirements. Contractor has to preserve Buildings, structures, equipments, pipes, Valves , consumables supplied for the project works in all the stages of contract from receipt of material, storage of material, erection, and completion of work till handing over to NPCIL as per approved

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procedure. Storage and Preservation shall be performed as per clause 7 - Warehouse Management & Material Control of procedure 1301.KK34.0.0.MP.PCA.P080- REQUIREMENTS FOR CONSTRUCTION SUPERVISION AND MANAGEMENT BY CONTRACTOR

The CONTRACTOR is responsible for maintenance of the equipment / materials in storage, during erection and until commissioning, handing over to NPCIL including protection of the same against theft, elements of nature and corrosion damages. In case commissioning of the equipment is delayed, the CONTRACTOR shall be responsible for maintenance of the erected plant and equipment as directed by the PURCHASER or as per the instructions from manufacturer. No separate payment shall be made for this work and its cost to be included in the quoted price of items/systems/plants. Payment towards preservation of equipments & systems beyond the scheduled date of completion due to delay attributable to NPCIL will be dealt with as per the provisions of GCC. (clause 20 in GCC-EPC-4/ R1).

4.1. Preservation in the ware house (store):

The CONTRACTOR shall store the materials as per the clause 7 - Warehouse Management & Material Control of procedure 1301.KK34.0.0.MP.PCA.P080. The CONTRACTOR shall repack the equipment after inspection and store the same without disturbing the preservation.

The CONTRACTOR shall carryout frequent inspection of materials stored and also extend necessary facilities to the PURCHASER to carry out such inspection, when considered necessary. The CONTRACTOR shall implement the suggestions, if any, of the PURCHASER in this connection.

At no time shall any material be stored directly on ground. All materials shall be stored sufficiently above the ground by providing good wooden sleepers and during rainy seasons contractor shall check this gap and to rectify accordingly. All special measures to prevent corrosion shall be taken by the CONTRACTOR.

Materials, which carry a protective coating, shall not be wrapped in paper, cloths etc, as these are liable to absorb and retain moisture. The CONTRACTOR shall inspect the materials and in case of signs of wear or damages to protective coating, that portion shall be cleaned with appropriate solution and coated with an appropriate compatible protective paint. Complete record of all such observations and protective measures taken shall be maintained.

The rust preventive oil or grease for application on machined / fabricated components shall be adequate for the intended purpose and shall not cause any injury to the system, structure and components. Protective coatings/application of grease, oil etc shall be inspected from time to time and reapplication/ repair shall taken at appropriate frequency.

The CONTRACTOR shall periodically inspect materials with specific reference to.

Ingress of moistures and corrosion damages.

Regular inspection and renovation of silica gel, maintenance of inert atmosphere (nitrogen gas filling etc) .

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Damage to protective coating. Modes / suitability of storage

Open ends in pipes, vessels and equipment.

Proper positioning of valves, equipments as per manufacturers recommendation.

Humidity level in Electrode storage Humidity controlled rooms.

Regular insulation checks of electrical equipment are essential and these values shall be properly logged.

Any damages to equipment / materials.

Condition of the storage shall be inspected by NPCIL along with contractor regularly and report shall be generated.

4.2. Preservation in Erection site (from erection to handing over):

Contractor shall preserve the SSC ,materials in course of erection , erected equipments , pipe lines, supports etc as per manufacturers recommendation and tender conditions given in clause 7 of 1301.KK34.0.0.MP.PCA.P080 REQUIREMENTS FOR CONSTRUCTION SUPERVISION AND MANAGEMENT BY CONTRACTOR. The preservation requirements given above in clause 4.1 for the storage shall be applicable for erection site also. In case any deviation is required approval of NPCIL shall be taken in advance. Condition of the storage and preservation shall be inspected by NPCIL along with contractor regularly and report shall be generated.

Preservation of the buildings and structures constructed/ erected by the contractor also have to be maintained in good condition till handing over of the SSC to NPCIL. Required repair/ painting shall be performed at regular interval to the satisfaction of the ENC.

4.3. General description of work

SL NO	OPERATION	MINIMUM FREQUENCY OF OPERATION
1	Cleaning and wiping of equipment, JB's, pipes and etc	Weekly
2	Handling and storing in recommended position as per manufacturers recommendation.	As required
3	Maintenance of preservation coatings	As required
4	Maintenance of inert/ corrosion preventing atmosphere .	Regularly as per procedure
5	Inspection and fixing of end caps to openings of equipments , pipes ,fittings and valves	Regularly as per procedure
6	Checking Insulation resistance of electrical equipments	Regularly as per procedure
7	Periodic Rotation of position of rotary equipments	Regularly as per procedure
8	Lubrication of equipments	Regularly as per procedure

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4.4. General conditions of Preservation work:

1. The Contractor shall arrange his own equipments , tools and consumables required for this work like Paint, grease, oil, Nitrogen gas, silica gel, end caps, brushes, wiping cloths or any other material required for the preservation.
2. The SSC under the control of contractor shall be painted periodically as per the paint/ equipment manufacturers' recommendation. In case if there is no recommendation the buildings, structures, equipments, pipe lines have to repainted after three years of initial painting or before handing over of the SSC to NPCIL whichever is earlier.(Repainting is to be done only once in the contract period)
3. The storage, preservation and security of his materials and equipment shall be the sole responsibility of the Contractor and shall have no right to claim for any loss/theft or damage of the same.
4. The exclusive work force shall be deputed for the this work and work force deployed for this general Preservation shall not be diverted for any other job without concurrence of NPCIL.
5. All deployed work force shall be provided with uniform dress (with proper code), safety and cleaning gears and in no case work should stop for want of gears/ appliances.

4.5. Providing work force / staff:

The Contractor shall deploy adequate manpower as per clause 1.1 at his own account & responsibility. At the time of allotment of the area for maintenance and preservation, the name of EPC contractor's officials in charge for Preservation (Preservation Supervisor(s)), herein after referred as "Preservation area in charge" (PAIC) of the area shall be conveyed by the Contractor to the ENC. These PAIC shall report the daily performance to the PIC of the contractor and ENC or his authorised representative.

4.6. Reporting:

- 1) The Preservation Supervisor(s) (PAIC) should report regularly to the PIC & take day-to-day instructions.
- 2) The Contractor shall make sure that Preservation Supervisor(s) is necessarily available during working hours for receiving & implementing the Instructions of the PIC.
- 3) It shall be the responsibility of the Contractor to get the attendance of the Preservation staff verified by PIC.
- 4) The weekly / fortnightly / monthly jobs should be planned by Preservation Supervisor(s) in consultation with PIC in such a manner that these are spread over the entire week and done during office hours.
- 5) Proper registers/records of the jobs carried out on daily, weekly, fortnightly and monthly basis will be maintained by the Preservation Supervisor(s) and will be

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countersigned by the PIC on daily basis and finally at the end of each month by ENC. Approval of ENC shall be obtained for the report formats..

6) All equipment deployed shall be of quality standard.

5. **Payment linked with Preservation performance**

As indicated in the SCC-EPC, 1% of the payment of Running account (RA) Bill of Work Order/ purchase order for civil design, construction ,erection and commissioning work (site work portion) shall be based on the Preservation performance as per Annexure-1 enclosed herewith.

The quantum of payment linked with Preservation performance to be paid shall be recommended on the basis of check list during monthly Preservation Committee visits /meetings, based on the status of compliance of Preservation Related Deficiencies (PRD) reports issued to respective contractors. The committee shall assess the status of compliance of PRD reports by carrying out survey of workplace whenever required. Concerned Engineers-in-charge shall recommend the amount to be paid in the monthly RA bill.

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ANNEXURE I**Checklist cum Certificate for RA Bill payment based on Preservation Performance**

Sr. No.	Preservation Parameters	Clause	% of Running Account (RA) bill for compliance	Actual payable
01.	Preservation Professional Required no of Preservation Professionals deployed at site as per clause.	1	0.1% of RA Bill (Max.) 0.0% if requisite no. of professionals are not posted at site within one month and kept posted	
02.	Use of proper Preservation infrastructure / conditions and tools.	3	0.2% (Max.) of RA Bill 0.0% of RA Bill if more than 10 cases of PRD on improper tool use are observed.	
03	Work Practices 4.1 Adherence to Preservation practices as per procedure in storage area. 4.2 Adherence to Preservation practices as per procedure in project (site) erection area.	4 4	0.2% of RA Bill (Max.) 0.0% of RA Bill value if more than 10 cases of PRD as per condition given in clause 4 0.5% of RA Bill (Max.) 0.0% of RA Bill value for more than 10 cases of PRD as per condition given in clause 4	

Note: When the preservation related deficiencies (PRD) are between 0 and the maximum number indicated in the clauses the payment shall be made on prorata basis.

Payment certified by :

Engineer in-charge (works)

QA In charge (works)

Chairman of Preservation Committee

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PURCHASE ORDER NO.CMM/MEQ/25-24-2-1188/e-PO/0046

APPENDIX-1 : REFERENCE PARTICULARS

PURCHASER'S REFERENCE

- 1) Our Tender No. CMM/MEQ/25-24-2-1188 (Tender ID: 2023_NPCIL_157000_1) Dtd. 14.06.2023.
- 2) Pre-Bid Meeting held on Dtd. 04.07.2023.
- 3) Pre-bid Clarifications Dtd.23.08.2023 & 09.10.2023.
- 4) Corrigendum-I Dtd.24.08.2023.
- 5) Corrigendum-II Dtd.11.09.2023.
- 6) Corrigendum-III Dtd. 09.10.2023.
- 7) Corrigendum-IV Dtd.18.02.2023.
- 8) Our Letter No. CMM/MEQ/1188 Dtd. 14.12.2023.
- 9) Our Letter No. CMM/MEQ/1188 Dtd. 04.09.2024.
- 10) Minutes of Meeting dtd. 12.11.2024, 29.11.2024 & 13.02.2025.
- 11) Our Letter No. CMM/MEQ/1188 Dtd. 03.04.2025.

CONTRACTOR'S REFERENCE

- 1) Your Offer No. MUM/5/10/23/1651/SAN/LST (Part-I Bid) & MUM/5/10/23/1651/SAN/LST (Part-II Bid) both dated 05.10.2023.
- 2) Your Letter No. MUM/29/06/23/1606/SAN/LST Dtd. 14.01.2024 & email communications dated 02.01.2024 (2 emails), 05.01.2024, 16.01.2024, 06.02.2024 & 20.04.2024.
- 3) Your Letter No. MUM/29/06/23/1606/SAN/LST Dtd. 04.04.2025.



ADVANCE PAYMENT

NUCLEAR POWER CORPORATION OF INDIA LIMITED
(Acting through) Executive Director,
Directorate Of Contracts & Materials Management
NUB, Anushaktinagar, Mumbai-400094.

1. WHEREAS on or about the _____ day of 201_
M/s. _____ a Company registered
under the Companies Act 1956 and having its registered office at

(hereinafter referred to as 'The Contractor') entered into an agreement bearing
No. _____ (hereinafter referred to as 'The Contract'),
with Nuclear Power Corporation of India Limited (A Government of India
Enterprise) acting through Director, Contracts & Material Management (hereinafter
referred to as (Purchaser) for _____
(hereinafter referred to as 'The Equipment').
2. AND WHEREAS under the terms & conditions of the contract an amount of Rs.
_____ (Rupees _____ only) representing
_____ per cent advance payment out of a contract value of Rs _____ (Rupees
_____ only) is to be paid by the Purchaser to the
contractor.
3. AND WHEREAS the Purchaser has agreed in pursuance of the said terms and
conditions of the contract to make an advance payment of Rs. _____ (Rupees
_____ only) to the Contractor on the Contractor furnishing
a Bank Guarantee in the manner herein contained.



4. NOW WE, the _____ (Bank) in consideration of the purchaser having agreed to pay to the contractor an advance payment of Rs. _____ (Rupees _____ only) do hereby agree and undertake to indemnify the Purchaser and keep the Purchaser indemnified to the extent of a sum not exceeding the said sum of Rs. _____ (.Rupees _____ only) against any damage or loss that may be suffered by the Purchaser by reason of non-fulfilment of any of the terms and conditions of the contract by the contractor.
5. WE, _____ (Bank) do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from on behalf of Messrs NUCLEAR POWER CORPORATION OF INDIA LTD stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of breach by the said Contractor (s) of any of the terms and conditions contained in the said agreement or by reason of the Contractor(s) 's failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by Bank under this guarantee. However, our liability under this guarantee, shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only .
6. We undertake to pay to the Purchaser any money so demanded not withstanding any dispute or disputes raised by the Contractor (s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment thereunder and the Contractor (s) shall have no claim against us for making such payment.



7. AND WE _____ (Bank) hereby further agree that the decision of the said NUCLEAR POWER CORPORATION OF INDIA LTD., as to whether the Contractor has committed breach of any such terms and conditions of the contract or not and as to the amount of damages or loss assessed by the said NUCLEAR POWER CORPORATION OF INDIA LTD., as damage or loss suffered by the Purchaser on account of such breach would be final and binding on us.
8. AND WE _____ (Bank) further agree with the Purchaser that the Purchaser shall have the fullest liberty without our consent and without affection in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extent time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Contractor (s) and to forbear or enforce any of the terms and conditions relating the said agreement and we shall not be relieved form our liability by reason of any such variation or extension being granted to the said contractor (s) or for any forbearance, act or omission on the part of the Purchaser or any indulgence by the Purchaser to the said contractor (s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of relieving us.
9. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor (s).



10. Our guarantee shall remain in force until _____ and unless a claim under the guarantee is lodged with us within three months from that date all rights of the Purchaser under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities, thereunder.
11. Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the bank. Any invocation of the guarantee can be made only by the beneficiary directly.

Dated the _____ day of _____ 201_

For _____
(Indicate the name of the bank)



PERFORMANCE SECURITY BOND

NUCLEAR POWER CORPORATION OF INDIA LIMITED
(Acting through) Executive Director,
Directorate Of Contracts & Materials Management
NUB, Anushaktinagar, Mumbai-400094.

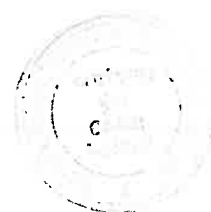
1. WHEREAS on or about the (Date of the Purchase Order)
M/s. _____ a Company
incorporated under the Companies Act 1956 and having its registered office at

(hereinafter referred to as 'The Contractor') entered into an agreement bearing
No. _____ (hereinafter referred to as 'The Contract'),
with Nuclear Power Corporation of India Limited (A Government of India Enterprise)
acting through Director, Contracts & Material Management (hereinafter referred to as
(Purchaser) for supply of _____ (hereinafter
referred to as 'The Equipment').

2. AND WHEREAS under the terms & conditions of the contract, the Contractor shall
furnish Performance Security Bond for an amount of Rs. _____ (Rupees
_____ only) representing 10% of the total value of the
contract in the form of a bank guarantee, in a manner herein contained duly executed
by a scheduled/nationalised bank towards satisfactory performance of the contract and
performance of the equipment and against any loss or damage caused to or suffered or
would be caused to or suffered by the Purchaser by reason of any breach by the said
Contractor(s) of any terms and conditions contained in the said agreement. The
Performance Security Bond shall be valid till satisfactory completion of Defect
Liability Period covering the Warranty/Guarantee period of the equipment as per the
terms & conditions of the said agreement.



3. NOW WE, the _____ (Bank) in consideration of the promises do hereby agree and undertake to pay to the Nuclear Power Corporation of India Limited, (the purchaser) on behalf of the Contractor, the said sum of Rs. _____ (Rupees _____ Only), the amount due and payable under the guarantee without any demur, merely on a demand from the Nuclear Power Corporation of India Limited stating that the amount claimed is due by way of loss or damage caused to, or suffered by, the Purchaser by reason of any breach by the said Contractor of any of the terms and conditions contained in the said agreement or by reason of the contractors failure to perform the said agreement or by reason of unsatisfactory performance of the equipment during the Warranty period. Any such demand, made on the bank, shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only).
4. WE undertake to pay to the Purchaser the said sum of Rs. _____ (Rupees _____ Only), demanded notwithstanding any dispute or disputes raised by the Contractor(s), in any suit or proceedings pending before any Court or Tribunal relating thereto, our liability under this presents being absolute irrevocable and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor shall have to no claim against us for making such payment.
5. WE HEREBY further agree that the decision of the Nuclear Power Corporation of India Limited as to the amount of damages suffered by the Purchaser by reasons(s) of any breach by the said Contractor or whether the said equipment is giving satisfactory



performance or not during the Warranty Period as per the terms and conditions of the said agreement, shall be final and binding on us.

6. AND WE, the _____ (Bank) do hereby further agree that our liability hereunder shall not be discharged by virtue of any agreement between the Purchaser and the Contractor whether with or without our knowledge and/or consent and shall remain in full force and effect during the period that would be taken for the performance of the said agreement or by reason of the Purchaser showing any indulgence or forbearance to the Contractor whether as to payment, time for performance, or any other matter whatsoever relating to the contract, which but for this provision, would amount to discharge of the surety under the law.
7. THIS guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
8. OUR Guarantee shall remain in force until _____ and unless a claim under the guarantee is lodged with us within three months from the said date, all rights of the Purchaser under the guarantee shall be forfeited and we shall be relieved and discharged from all our liabilities hereunder.
9. Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the bank. Any invocation of the guarantee can be made only by the beneficiary directly.

Dated the _____ day of _____ 201_

For _____

(indicate the Name of bank)



RETENTION BANK GUARANTEE

NUCLEAR POWER CORPORATION OF INDIA LIMITED
 (Acting through) Executive Director,
 Contracts & Materials Management
 Nabhikiya Urja Bhavan,
 Anushaktinagar,
 Mumbai - 400 094.

1. WHEREAS on or about the _____ day of _____ M/s. _____ a Company registered under the Companies Act 1956 and having its registered office at _____ (hereinafter referred to as 'The Contractor') entered into an agreement bearing No. _____ dtd. _____ (hereinafter referred to as the 'The Contract'), with Nuclear Power Corporation of India Limited (acting through Executive Director, Contracts & Materials Management Group) (hereinafter referred to as the 'The Purchaser') for supply of _____ (hereinafter referred to as 'The Equipment').
2. AND WHEREAS under the terms and conditions of the contract balance 10% payment is to be made against _____ and on the supplier furnishing a retention bank guarantee for Rs. _____ (Rupees _____ only) representing 10% of the contract value in the manner herein contained.
3. NOW WE, (Bank) _____ in consideration of the Purchaser having agreed to pay to the Contractor balance payment of Rs. _____ (Rupees _____ only) do hereby agree and undertake to indemnify the Purchaser and keep the Purchaser indemnified to the extent of a sum not exceeding the said sum of Rs. _____ (Rupees _____ only) against any damage or loss that may be suffered by the Purchaser by reason of non fulfillment of any of the terms and conditions of the contract by the CONTRACTOR.
4. WE, the (Bank) _____, do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the EXECUTIVE DIRECTOR, CONTRACTS AND MATERIALS MANAGEMENT on behalf of M/s. NUCLEAR POWER CORPORATION OF INDIA LIMITED stating that the amount claimed is due byway of loss or damage caused to or would be caused to or suffered by the Purchaser by reason of breach by the said Contractor of any of the terms and conditions contained in the said agreement or by reason of the Contractor(s) failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only).

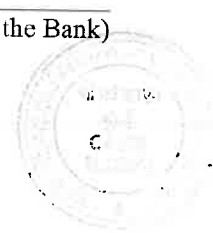


5. We undertake to pay to the Purchaser any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s), in any suit or proceedings pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
6. AND WE, the (Bank) _____, hereby further agree that the decision of the said EXECUTIVE DIRECTOR, CONTRACTS AND MATERIALS MANAGEMENT GROUP, NUCLEAR POWER CORPORATION OF INDIA LIMITED as to whether the Contractor has committed breach of any such terms and conditions of the contract or not and as to the amount of damages or loss assessed by the said EXECUTIVE DIRECTOR, CONTRACTS AND MATERIALS MANAGEMENT GROUP, NUCLEAR POWER CORPORATION OF INDIA LIMITED as damage or loss suffered by the Purchaser on account of such breach would be final and binding on us.
7. WE, the (Bank) _____, further agree with the Purchaser that the Purchaser shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Contractor and to forebear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variations or extensions being granted to the said Contractor or for any forbearance, act or omission on the part of the Purchaser or any indulgence by the Purchaser to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision have effect of relieving us.
8. THIS GUARANTEE will not be discharged due to the change in the constitution of the Bank of the Contractor(s)/Supplier(s).
9. Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the bank. Any invocation of the guarantee can be made only by the beneficiary directly.

NOTWITHSTANDING ANYTHING CONTAINED herein above, our liability under this guarantee is restricted to Rs. _____ (Rupees _____ only). Our guarantee shall remain in force for a period of three months from the date of the bank guarantee i.e. up to _____ and unless a claim under the guarantee is lodged within the above date, all rights of the Purchaser under the guarantee shall be forfeited and we shall be relieved and discharged from all liabilities under this guarantee there under.

Dated the _____ day of _____ 201__

For _____
(Indicate the name of the Bank)



PURCHASE ORDER NO. CMM/MEQ/25-24-2-1188/e-PO/0046

ANNEXURE – F

PO. No. Invoice No. & Date.....

Declaration Form for GST

The Supplier/Contractor while submitting their bill to the Paying Authority shall furnish the following certificates:

Certified that:

- (a) Additional Input Tax Credit under GST availed against invoices submitted here under is Rs. _____
- (b) Certified that the goods and services on which GST has been charged are not exempted under the GST Act or the rules made there under and the amount charged on account of GST on these goods and services are not more than what is payable under the relevant act or the rules there under.
- (c) Certified that we have taken into account all input tax credits available under GST and have not loaded the same in the basic price while furnishing their bids.
- (d) Certified that in respect of amount of taxes claimed in the bill no claim is pending for refund/or is admissible for refund from any other agency and /or no other tax credit is available in respect of the same. In the event of getting refund in whole or in part of the element of GST claimed from Government, the same shall be passed on the benefit to the Purchaser by remitting the amount equivalent to the amount of refund obtained.
- (e) Certified that the GST charged herein the invoices has been/ shall be deposited within the due date and the Invoice details have been / shall be populated in GSTR1/ANX-1 of the GSTN portal facilitating Input Tax Credit to the Purchaser.
- (f) Certified that we have complied with the Anti-profiteering measure provisions under CGST/SGST/UTGST Acts and passed on commensurate reduction of price to the purchaser.
- (g) Certified that a quarterly statement shall be submitted to NPCIL confirming the payment of GST invoiced on NPCIL along with copy of GST paid Challan.
- (h) Certified that in case of any change in the Invoice which has been accepted by the Purchaser in the IMS Portal, the corresponding amendment in the Original Invoice shall be made by the Supplier/Contractor, by raising Debit Note/Credit Note or any other document, as applicable, within the timelines stipulated under the GST Act.

Declaration Form for TDS

The Supplier/Contractor while submitting their bill to the Paying Authority shall furnish the following certificates:
Certified that:

- (a) Whether Provisions of Section 194Q are applicable (**For Supply of Goods worth 50 Lakhs p.a**): YES/NO
- (b) We have filed the return of income for the previous year (AY _____) preceding the year in which tax is liable to be deducted, within the prescribed time limit and hence, confirm that applicable rate of TDS is at Normal Rate .
- (c) We have linked the PAN to Aadhar and the PAN is not inoperative (applicable in case of Individuals)

Incomplete information against point (a), (b) & (c) above under Declaration form for TDS, shall be subject to deduction of tax at higher rate as applicable (5% as on date)

Signature of Contractor or their Authorized Representative with company seal.

Signature Not Verified

Digitally signed by KUNAL AIL
Date: 2025.05.09 16:13:19 IST
Location: eProcurement System for Central PSUs