

**Ref. Enquiry No.: PE/PG/PA1/E-6643/2021 dt. 25/05/2021**

<b>DUE DATE</b>
<b>04/06/2021</b>
<b>BY 02:00 P.M.</b>

Dear Sir / Madam,

**Subject: Tender Enquiry for “OIL FILLED SERVICE TRANSFORMER” as per Technical Specification No. PE-TS-434-302-E001A - Rev. 0 for 3X800 MW PVUNL PATRATU TPP PHASE-I.**

BHEL invites your offer for design, manufacture, inspection and testing at manufacturer's works, proper packing and delivery to site of **BIS certified OIL FILLED SERVICE TRANSFORMERS (Star-2 losses (energy efficiency level 3 as per IS 1180) as per BEE guideline and BIS Certification for rating upto 2.5 MVA 33kV Class, however the impedance value, list of tests, fittings shall be as per those mentioned in the specification & shall also comply with IS-1180)** as mentioned in different sections of this specification, complete with all accessories for efficient and trouble-free operation.

Your best quotation / offer shall be submitted in two parts strictly as per Clause-2.0 of the “Instructions to Bidders” of GCC, Rev. 07, in line with our terms and conditions, online via e-procurement system on <https://eprocurebhel.co.in/nicgep/app>.

S. No.	PROJECT	ITEM DESCRIPTION	TECHNICAL SPECIFICATION NO.
1.	3X800 MW PVUNL PATRATU TPP PHASE-I	OIL FILLED SERVICE TRANSFORMER	PE-TS-434-302-E001A - Rev. 0

It shall be the responsibility of the bidder to ensure that the tender is submitted **on or before the due date by 02:00 P.M.** Part-I bids shall be opened at **05:00 P.M.** on the due date.

**Note:** 1. Detailed Tender documents / Corrigenda, addenda, amendments, time extensions, clarifications etc. can be downloaded / accessed from the following websites: -

- <https://eprocurebhel.co.in/nicgep/app>
- [www.bhel.com](http://www.bhel.com)
- [www.bhelpem.com](http://www.bhelpem.com)

**ENQUIRY TERMS AND CONDITIONS:**

Please refer GCC, Rev. 07 which is available on <https://www.bhelpem.com/Documents/GCC/GCCRev07.pdf>. Bidders are requested to go through the same while submitting the offer.

- Offers should be submitted separately in two parts **online through e-procurement system** as follows:  
**Part-I: TECHNO-COMMERCIAL BID** **Part-II: PRICE BID**  
For detailed instructions, please see Clause No. 1.0 & 2.0 of “Instructions to Bidders (Vol-I, GCC Rev. 07)”.
- Bidders to note that following form the part of tender documents & will become a part of the Order / Contract after its finalisation:

Swapnil Kumar  
Mgr./PG-III, BHEL/PS-Project Engineering Management,  
Power Project Engineering Institute,  
Plot no. 25, Sector – 16A, Noida (UP) 201301, INDIA  
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- a. General Conditions of Contract (GCC), Rev. 07 comprising of Instructions to Bidders and General Commercial Terms & Conditions.
  - b. Technical Specification.
  - c. Special Conditions of Contract (SCC, Rev. 00).
  - d. NTPC's Main & Sub-supplier questionnaire.
  - e. Enquiry Letter with Terms & Conditions.
  - f. Technical & Financial PQR.
  - g. Integrity Pact.
  - h. Format for Local Content Certification.
3. Tenders shall be submitted strictly in accordance with the requirements of the above mentioned tender documents. Deviations (Technical as well as Commercial), if any, shall be listed out separately in Annexure-II (Cost of withdrawal) of GCC, Rev. 07 along with reasons for taking such deviations. Any deviations (Technical as well as Commercial) not mentioned in the Annexure-II (Cost of withdrawal) and standard pre-printed terms & conditions shown separately or found hidden in the offer, will not be taken cognizance of. Bidders to note all the points mentioned in "Notes" of Annexure-II to GCC, Rev. 07.
4. Purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any / all tender(s) in part or full without assigning any reason whatsoever.
5. **For this procurement, Public Procurement (Preference to Make in India), Order 2017 dt. 15/06/2017, 28/05/2018, 29/05/2019 & 04/06/2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract / PO / WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.**
6. **For this procurement, the local content to categorize a supplier as a Class I Local Supplier / Class II Local Supplier / Non Local supplier and Purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), (PPP-MII) Order 2017 dt. 04/06/2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT.**
- Regarding verification of local content, the local supplier at the time of tender, bidding or solicitation shall be required to provide certification (in the prescribed format) that the item offered meets the minimum local content as per above mentioned orders and shall give details of the location(s) at which the local value addition is made.**
7. **Bidders has to ensure compliance to Ministry of Power (MoP) Order No. 25-11/6/2018-PG dt. 02/07/2020 & Order No. 11/05/2018-Coord. dt. 23/07/2020, if applicable & Ministry of Finance (MoF) Order (Public Procurement No. 1 & 2) F. No. 6/18/2019/PPD dt. 23/07/2020.**
8. **Bidder has to submit "Model Certificate for Tenders" as per Annexure-III of Ministry of Finance (MoF) Order (Public Procurement No. 1 & 2) F. No. 6/18/2019/PPD dt. 23/07/2020.**

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9. Only Class-I Local Suppliers are eligible to bid in this tender.
10. As per Department of Expenditure (DoE) OM No. 6/9/2020-PPD dt. 24/08/2020, it is mandatory for all the bidders to provide their GeM Seller ID.
11. Prices shall be firm till completion of the contract.
12. All correspondence thereof, shall be addressed to the following:

<b>NIMESH MALLIK, DY. ENGR., PG-III</b> <b>E-MAIL: nimeshmallik@bhel.in</b> <b>Ph. No. +91-120-4368799; Mob: +91-9654713649</b>	<b>SWAPNIL KUMAR, MGR., PG-III</b> <b>E-MAIL: swapnilkumar@bhel.in</b> <b>Ph. No. +91-120-4213563; Mob: +91-9953160482</b>
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13. **Bidder to note that this is a conditional Open (Indian) Tender enquiry. Hence, Price Bid (Part-II) Opening shall be subject to following criterion:**
  - i. Techno-commercial qualification / recommendation of bidder by BHEL-PEM.
  - ii. Approval of bidder by Customer: - Approval shall be taken up by BHEL with customer based on the credentials / reference list. Hence, Bidders are requested to submit the following (as part of their credentials) on or before Part-I opening: -
    - Reference list indicating P.O. details, customer name, P.O. date, execution date etc.
    - Performance certificate issued by the clients.
    - NTPC's Main & Sub-supplier questionnaire (enclosed with enquiry) and submit all the supportive documents against details furnished therein (signed & stamped on each page)
  - iii. **Pre-Qualifying Requirements:** - Bids of only those bidders shall be evaluated who meet the Technical & Financial pre-qualifying requirements.

Bidders to ensure that Third party / customer issued certificates being submitted as proof of PQR qualification should have verifiable details of document / certificate issuing authority such as name & designation of Issuing Authority and its organisation contact number and e-mail Id etc. In case the same found not available, Purchaser has right to reject such document from evaluation.

14. In case of joint bidding, Bidders shall be required to furnish scope matrix which should be clearly defined between them along with the offer for the complete scope as per NIT.
15. For the bidders (who are not registered with BHEL-PEM), Online Registration Portal is operational in BHEL. Non-registered Vendors, who wish to apply for registration with BHEL-PEM, have to apply through Online Registration Portal available at [www.bhelpem.com](http://www.bhelpem.com) → vendor section → Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration has to be uploaded on the website and submit the application for registration. One set of hard copy of the filled-up SRF downloaded from Online Registration Portal duly signed and stamped has to be submitted.
16. **The nature of package is "Non-divisible."**
17. **The Evaluation Currency for this tender will be INR.**

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18. **BHEL shall be finalizing this tender with Reverse Auction. Bidders to quote suitably. Bidders to note that this clause will supersede Cl. No. 13 of 'Instruction to Bidders' of GCC-Rev. 07.**

“BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among the techno commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.”

19. MSME / Start-up Vendors to submit applicable documents along with their offer for availing the benefits as per GOI guidelines. Further PEM is already registered with RXIL (TReDS) Platform. You are requested to get registered with RXIL (TReDS) Platform to avail the facility as per GOI guidelines.

20. **Delivery Schedule:** - Unit-wise Quantity break-up shall be as per Annexure-A.

- **Main Supply for Unit-I:** - Nine (09) months from the date of approval of "PRIMARY" drgs. / docs. in CAT-I. The categorisation of drawings / documents as Primary or Secondary and their submission / re-submission schedule shall be as per Annexure-III of the Technical Specification. Conductance of all the Type Tests (including Special Test as per IEC 60076-5) and Type Test report approval shall be with in overall delivery period. BHEL shall furnish comments / approval on each submission within 18 days from receipt.

Delay (if any) in submission / re-submission of "PRIMARY" drawings / documents shall be reduced from the overall delivery period. Delay in BHEL's comments / approval of "PRIMARY" drawings / documents beyond 18 days shall also be considered for delay analysis.

- **Main Supply for Unit-II & III:** - Four (4) months from the date of BHEL clearance.
- **Mandatory Spares (together for all 3 units):** - Four (4) months from the date of BHEL clearance.

21. Bidders are requested to refer Performance Bank Guarantee (PBG) format & rules and adhere to it while furnishing PBG.

22. Evaluation will be done on **Total cost to BHEL (excluding GST) basis** as per Cl. No. 19.2 of Instruction to Bidders of GCC, Rev. 07.

"In course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective bidders.

In case more than one bidder happens to occupy L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of lots, in the presence of respective bidder(s) or their representative(s). Ranking will be done accordingly. BHEL's decision in such situation shall be final and binding.”

23. Overall (%) variation in contract values (due to changes in the scope) shall be limited to +/- 30%. This will prevail over the quantity variation Cl. No. 6.0 of GCC, Rev. 07.

24. MSME bidders will have to furnish the UAM details.

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25. The offers of the bidders who are on the banned list (list of banned firms available on <http://www.bhel.com>) and also the offers of the bidders, who engage the services of the banned firms, shall be rejected.
26. The Bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.
27. Bidders participating in subject tender will necessarily have to buy class III DSCs (Digital Signature Certificate) issued by the certifying authorities in India. Basic procedure /checklist is uploaded on "www.bhel.com" for participating in tender enquires through e-procurement.
28. This item/package/system falls under the list of items defined in Para 3 of Ministry of Finance guidelines dt. 20.09.2016 (procurement of items related to public safety, health, critical security operations and equipment etc.) & hence criteria of prior experience / turnover shall be same for all the bidders including startup / MSME.
29. Bidders to declare that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
30. **Due to COVID-19 pandemic condition prevailing in the country, BHEL-PEM may go for Remote Inspection of offered items, if required. Vendors are requested to be equipped with the facilities / gadgets as indicated in the guidelines attached to take up the inspection REMOTELY.**
31. All other Terms & conditions will be as per GCC-Rev. 07, SCC-Rev. 00 and NIT.
32. Please note that for technical bid, detailed offers are to be submitted including the following: -
  - Acceptance of GCC, Rev. 07.
  - Acceptance of Special Conditions of Contract (SCC).
  - Along with your offer, please submit a copy of this letter duly signed & stamped on each page as token of acceptance of all terms & instructions conveyed.
  - Technical & Financial PQR documents.
  - Integrity Pact
  - Local Content Certification.
  - NTPC's Main & Sub-Supplier Questionnaire.

Thanking You.

Yours Sincerely,

**Swapnil Kumar**

(Mgr. / PG-III / BHEL-PEM)

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**Enclosures:**

1. Technical Specification No. PE-TS-434-302-E001A - Rev. 0.
2. Project SCC, Rev. 00.
3. Technical & Financial PQR.
4. NTPC's Main & Sub-supplier questionnaire.
5. Format for Local Content Certification.
6. Guidelines for Remote Inspection.
7. Integrity Pact
8. Ministry of Power (MoP) Order No. 25-11/6/2018-PG dt. 02/07/2020 & Order No. 11/05/2018-Coord. dt. 23/07/2020.
9. Ministry of Finance (MoF) Order (Public Procurement No. 1 & 2) F. No. 6/18/2019/PPD dt. 23/07/2020.

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PROJECT:- 3X800 MW PVUNL PATRATU TPP PHASE-I						
PACKAGE:- OIL FILLED SERVICE TRANSFORMER						
UNIT-WISE QUANTITY BREAK-UP						
S. No.	Item Description	Unit	Total Quantity	Unit-I Qty.	Unit-II Qty.	Unit-III Qty.
1.0	Oil Filled Service Transformer - 1000kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=5.0%, Dyn1, OFF Circuit taps $\pm 5\%$ in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination) along with Extra Oil (10%) in Sealed Non-returnable Standard Drums.	NOS.	4	4	-	-
2.0	Oil Filled Service Transformer - 1600kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=6.25%, Dyn1, OFF Circuit taps $\pm 5\%$ in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination) along with Extra Oil (10%) in Sealed Non-returnable Standard Drums.	NOS.	4	4	-	-
3.0	Oil Filled Service Transformer - 2500kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=10.0%, Dyn1, OFF Circuit taps $\pm 5\%$ in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination) along with Extra Oil (10%) in Sealed Non-returnable Standard Drums.	NOS.	32	16	8	8
4.0	Oil Filled Service Transformer - 5000kVA, 11kV/3.45kV, 3 phase, 2 winding, outdoor, ONAN, Z=7%, Dyn1, OFF Circuit taps $\pm 5\%$ in steps of 2.5% (with cable box type HV, with bus-duct type LV and with cable box type LVN termination) along with Extra Oil (10%) in Sealed Non-returnable Standard Drums.	NOS.	4	4	-	-
5.0	MANDATORY SPARES	LOT	1	-	-	1

**ANNEXURE -III**  
**DOCUMENTS REQUIRED AFTER AWARD OF LOI**

Following documents/drawings shall be submitted after placement of order for BHEL & customer's approval: -

Sl. No.	BHEL Drawings/ Document Number	NTPC Drawings/ Document Number	Drawings/ Document Description	Drawings/ Document Type	First Submission	Resubmission
1	PE-V0-434-302-E011	9585-001-215-PVE-B-110	2500 KVA SERVICE TRANSFORMER (11/0.433 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
2	PE-V0-434-302-E012	9585-001-215-PVE-B-111	LOADING GAUGE DRG/ (TRANSPORTATION DRG/) & TWIN BIDIRECTIONAL ROLLER--2500 KVA, 11/0.433 KV	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
3	PE-V0-434-302-E013	9585-001-215-PVE-B-112	2500KVA TRANSFORMER (11/0.433 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
4	PE-V0-434-302-E014	9585-001-215-PVE-B-114	2500 KVA SERVICE TRANSFORMER (11/0.433 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
5	PE-V0-434-302-E015	9585-001-215-PVE-B-115	2500KVA TRANSFORMER (11/0.433 KV) GA BUSHING DRG/(H/V, LV & NEUTRAL)	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
6	PE-V0-434-302-E016	9585-001-215-PVE-L-008	2500KVA TRANSFORMER (11/0.433 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
7	PE-V0-434-302-E017	9585-001-215-PVE-V-008	2500KVA TRANSFORMER (11/0.433 KV) FOUNDATION DRAWING	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
8	PE-V0-434-302-E018	9585-001-215-PVE-Y-022	2500 KVA SERVICE TRANSFORMER (11/0.433 KV) TECHNICAL DATA SHEET	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
9	PE-V0-434-302-E019		2500 KVA SERVICE TRANSFORMER (11/0.433 KV) VALVE SCHEDULE PLATE	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
10	PE-V0-434-302-E020	9585-001-215-PVE-W-031	2500KVA TRANSFORMER (11/0.433 KV) TYPE/ SPECIAL TEST REPORT	Secondary	Within one week after conduction of Type test	Within 10 days of BHEL comments
11	PE-V0-434-302-E211	9585-001-215-PVE-B-078	1600 KVA SERVICE TRANSFORMER (11/0.433 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
12	PE-V0-434-302-E212	9585-001-215-PVE-B-079	LOADING GAUGE DRG/ (TRANSPORTATION DRG/) & TWIN BIDIRECTIONAL ROLLER--1600 KVA, 11/0.433 KV	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
13	PE-V0-434-302-E213	9585-001-215-PVE-B-080	1600KVA TRANSFORMER (11/0.433 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
14	PE-V0-434-302-E214	9585-001-215-PVE-B-081	1600 KVA SERVICE TRANSFORMER (11/0.433 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
15	PE-V0-434-302-E215	9585-001-215-PVE-B-082	1600KVA TRANSFORMER (11/0.433 KV) GA BUSHING DRG/(H/V, LV & NEUTRAL)	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
16	PE-V0-434-302-E216	9585-001-215-PVE-L-005	1600KVA TRANSFORMER (11/0.433 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
17	PE-V0-434-302-E217	9585-001-215-PVE-V-005	1600KVA TRANSFORMER (11/0.433 KV) FOUNDATION DRAWING	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
18	PE-V0-434-302-E218	9585-001-215-PVE-Y-019	1600 KVA SERVICE TRANSFORMER (11/0.433 KV) TECHNICAL DATA SHEET	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
19	PE-V0-434-302-E219		1600 KVA SERVICE TRANSFORMER (11/0.433 KV) VALVE SCHEDULE PLATE	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments



20	PE-V0-434-302-E220	9585-001-215-PVE-W-025	1600KVA TRANSFORMER (11/0.433 KV) TYPE/ SPECIAL TEST REPORT	Secondary	Within one week after conduction of Type test	Within 10 days of BHEL comments
21	PE-V0-434-302-E311	9585-001-215-PVE-B-083	1000 KVA SERVICE TRANSFORMER (11/0.433 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
22	PE-V0-434-302-E312	9585-001-215-PVE-B-084	LOADING GAUGE DRG/ (TRANSPORTATION DRG/) & TWIN BIDIRECTIONAL ROLLER--1000 KVA, 11/0.433 KV	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
23	PE-V0-434-302-E313	9585-001-215-PVE-B-085	1000KVA TRANSFORMER (11/0.433 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
24	PE-V0-434-302-E314	9585-001-215-PVE-B-086	1000 KVA SERVICE TRANSFORMER (11/0.433 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
25	PE-V0-434-302-E315	9585-001-215-PVE-B-087	1000KVA TRANSFORMER (11/0.433 KV) GA BUSHING DRG/(H/V, LV & NEUTRAL)	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
26	PE-V0-434-302-E316	9585-001-215-PVE-L-006	1000KVA TRANSFORMER (11/0.433 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
27	PE-V0-434-302-E317	9585-001-215-PVE-V-006	1000KVA TRANSFORMER (11/0.433 KV) FOUNDATION DRAWING	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
28	PE-V0-434-302-E318	9585-001-215-PVE-Y-020	1000 KVA SERVICE TRANSFORMER (11/0.433 KV) TECHNICAL DATA SHEET	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
29	PE-V0-434-302-E319		1000 KVA SERVICE TRANSFORMER (11/0.433 KV) VALVE SCHEDULE PLATE	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
30	PE-V0-434-302-E320	9585-001-215-PVE-W-026	1000KVA TRANSFORMER (11/0.433 KV) TYPE/ SPECIAL TEST REPORT	Secondary	Within one week after conduction of Type test	Within 10 days of BHEL comments
31	PE-V0-434-302-E511		5000 KVA SERVICE TRANSFORMER (11/3.45 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
32	PE-V0-434-302-E512		LOADING GAUGE DRG/ (TRANSPORTATION DRG/) & TWIN BIDIRECTIONAL ROLLER--5000 KVA, 11/3.45 KV	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
33	PE-V0-434-302-E513		5000KVA TRANSFORMER (11/3.45 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
34	PE-V0-434-302-E514		5000 KVA SERVICE TRANSFORMER (11/3.45 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
35	PE-V0-434-302-E515		5000KVA TRANSFORMER (11/3.45 KV) GA BUSHING DRG/(H/V, LV & NEUTRAL)	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
36	PE-V0-434-302-E516		5000KVA TRANSFORMER (11/3.45 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
37	PE-V0-434-302-E517		5000KVA TRANSFORMER (11/3.45 KV) FOUNDATION DRAWING	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
38	PE-V0-434-302-E518		5000 KVA SERVICE TRANSFORMER (11/3.45 KV) TECHNICAL DATA SHEET	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
39	PE-V0-434-302-E519		5000 KVA SERVICE TRANSFORMER (11/3.45 KV) VALVE SCHEDULE PLATE	Primary	Within four weeks from the date of LOI	Within 10 days of BHEL comments
40	PE-V0-434-302-E520		5000KVA TRANSFORMER (11/3.45 KV) TYPE/ SPECIAL TEST REPORT	Secondary	Within one week after conduction of Type test	Within 10 days of BHEL comments

41	PE-V0-434-302-E901		MQP FOR OIL FILLED SERVICE TRANSFORMERS (Up to 5 MVA, 33 kV)	Primary	Within two weeks from the date of LOI	Within 10 days of BHEL comments
42	PE-V0-434-302-E902		O&M MANUAL/FQP FOR OIL FILLED SERVICE TRANSFORMERS (Up to 5 MVA, 11 kV)	Secondary	Within two weeks after all drawing/ document approval	Within 10 days of BHEL comments
43	PE-V0-434-302-E903		BOM (BILL OF MATERIAL) FOR OIL FILLED TRANSFORMERS (Up to 5 MVA, 11 kV)	Secondary	Within two weeks after all drawing/ document approval	Within 10 days of BHEL comments

**Note:**

1. Missing NTPC drawing/ document nos. shall be provided to successful bidder.
2. Drawing/ document nos. provided are tentative & may change, there shall be no commercial/ delivery implication to BHEL on this account.
3. Vendor shall submit the dates for drawing/document submission/BHEL comments/resubmission after approval of documents.
4. In BOM each of the item to be uniquely identified with item code no. or item Sl. no. Supplier to ensure that all the items which will find separate mention in the packing list are covered in detailed BOM. Supplier to give following undertaking in BOM: " The BOM provided here completes the scope ( in content and intent) of material supply under PO no. ---- dtd ----- Any additional material which may become necessary for the intended application of supplied item/package will be supplied free of cost in most reasonable time."
5. BHEL shall furnish comments / approval on each submission within 18 days from receipt.
6. If Vendor has already TYPE/ SPECIAL test report of any or all rating transformer, vendor shall submit TYPE/ SPECIAL test report along with other corresponding drawings of same rating.

Help

**Item Rate BoQ**

**Tender Inviting Authority:** Bharat Heavy Electricals Limited-Project Engineering Management, Noida

Name of Work: BOQ cum PRICE SCHEDULE OF MAIN SUPPLY OF OIL FILLED SERVICE TRANSFORMER FOR 3X800 MW PVUNL PATRATU TPP PHASE-I

**Tender Enquiry No.: PE/PG/PA1/E-6643/2021 dt. 25/05/2021**

Name of the Bidder/ Bidding Firm / Company :	
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NOTES:

1) BIDDER TO NOTE THAT THE COST OF TRANSFORMER SHALL INCLUDE THE COST OF ROUTINE TESTS AND SHALL BE CARRIED OUT ON ALL TRANSFORMERS WITHOUT ANY ADDITIONAL COST. BIDDER SHALL QUOTE ACCORDINGLY.

2) BIDDER SHALL SUPPLY 10% EXTRA OIL AS PER THE QUOTED PRICE. QUANTITY OF EXTRA OIL SHALL BE SUBJECT TO APPROVAL DURING DETAIL ENGINEERING.

3) CHARGES FOR CARRYING OUT SHORT CIRCUIT TEST SHALL BE PAYABLE BASED ON ACTUAL INVOICE FROM DESIGNATED LABORATORIES (CPRI-BHOPAL / CPRI-BANGLORE / ERDA-VADODARA) WITH AN ADDITIONAL LUMP SUM AMOUNT OF 5% OF EX-WORKS PRICE OF TRANSFORMER BEING TESTED TO COVER HANDLING COSTS (TRANSPORTATION, INSURANCE ETC.).

4) IN CASE TYPE / SPECIAL TESTS ARE WAIVED, THE TYPE / SPECIAL TEST CHARGES SHALL NOT BE PAYABLE TO THE BIDDER.

5) CHARGES FOR ALL TYPE / SPECIAL TESTS EXCEPT SHORT CIRCUIT TEST SHALL BE CONSIDERED FOR PRICE COMPARISONS PURPOSE.

6) IN CASE ANY OF THE TYPE / SPECIAL TESTS ARE REQUIRED TO BE REPEATED, THEN SAME SHALL BE CARRIED OUT BY THE VENDOR WITHOUT ANY COMMERCIAL / DELIVERY IMPLICATION TO BHEL.

7) UNIT-WISE QUANTITY BREAK-UP SHALL BE AS PER ANNEXURE-A.

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	TEXT	NUMBER	NUMBER	NUMBER #	NUMBER #	TEXT #
S. No.	Item Description	Quantity	Units	HSN Code	Quoted Currency in INR / Other Currency	UNIT EX-WORKS PRICE In Figures To be entered by the Bidder	TOTAL EX-WORKS PRICE	FREIGHT RATE	FREIGHT AMOUNT	GST TYPE	GST RATE	GST AMOUNT	TOTAL AMOUNT Without Taxes (TOTAL EX-WORKS + FREIGHT)	TOTAL AMOUNT With Taxes (TOTAL EX-WORKS + FREIGHT + GST)	TOTAL AMOUNT In Words
1	2	4	5	7	12	13	14	15	16	18	20	21	53	54	55
1	1000kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=5.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	4	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
2	1600kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=6.25%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	4	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
3	2500kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=10.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	32	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
4	5000kVA, 11kV/3.45kV, 3 phase, 2 winding, outdoor, ONAN, Z=7%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with cable box type LVN termination)	4	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
Total in Figures													0.000	0.000	INR Zero Only
Quoted Rate in Words		INR Zero Only													

Tender Inviting Authority: Bharat Heavy Electricals Limited-Project Engineering Management, Noida

Name of Work: BOQ cum PRICE SCHEDULE OF MANDATORY SPARES OF OIL FILLED SERVICE TRANSFORMER FOR 3X800 MW PVUNL PATRATU TPP PHASE-I

Tender Enquiry No.: PE/PG/PA1/E-6643/2021 dt. 25/05/2021

<div> <div>Name of the Bidder/ Bidding Firm / Company :</div> <div></div> </div>															
<div> <div>NOTES:</div> <div>1 set consists of gaskets required for 1 No. transformer for the following: -</div> <div>(a) protection and monitoring devices</div> <div>(b) cooler circuit, if applicable</div> <div>(c) largest inspection cover, if applicable</div> <div>(d) HV/LV turret, if applicable</div> <div>(e) OCTC inspection cover, if applicable</div> </div>															
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	TEXT	NUMBER	NUMBER	NUMBER #	NUMBER #	TEXT #
S. No.	Item Description	Quantity	Units	HSN Code	Quoted Currency in INR / Other Currency	UNIT EX-WORKS PRICE In Figures To be entered by the Bidder	TOTAL EX-WORKS PRICE	FREIGHT RATE	FREIGHT AMOUNT	GST TYPE	GST RATE	GST AMOUNT	TOTAL AMOUNT Without Taxes [TOTAL EX-WORKS + FREIGHT]	TOTAL AMOUNT With Taxes [TOTAL EX-WORKS + FREIGHT + GST]	TOTAL AMOUNT In Words
1	2	4	5	7	12	13	14	15	16	18	20	21	53	54	55
1	HV bushing with metal parts & gaskets (No. each Rating)														
1.1	11.0/0.433kV, 1000KVA	3	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
1.2	11.0/0.433kV, 1600KVA	3	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
1.3	11.0/0.433kV, 2500KVA	3	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
1.4	11.0/3.45kV, 5000KVA	3	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
2	LV bushing with metal parts & gaskets (see Note 1) (No. each Rating)														
2.1	11.0/0.433kV, 1000KVA	3	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
2.2	11.0/0.433kV, 1600KVA	3	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
2.3	11.0/0.433kV, 2500KVA	3	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
2.4	11.0/3.45kV, 5000KVA	3	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
3	LV Neutral bushing with metal parts & gaskets (No. each Rating)														
3.1	11.0/0.433kV, 1000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
3.2	11.0/0.433kV, 1600KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
3.3	11.0/0.433kV, 2500KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
3.4	11.0/3.45kV, 5000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
4	WTI with contacts (No. each Rating)														
4.1	11.0/0.433kV, 1000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
4.2	11.0/0.433kV, 1600KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
4.3	11.0/0.433kV, 2500KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
4.4	11.0/3.45kV, 5000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
5	OTI with contacts (No. each Rating)														
5.1	11.0/0.433kV, 1000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
5.2	11.0/0.433kV, 1600KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
5.3	11.0/0.433kV, 2500KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
5.4	11.0/3.45kV, 5000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
6	Pressure relief Device (No. each Rating)														
6.1	11.0/0.433kV, 1000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
6.2	11.0/0.433kV, 1600KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
6.3	11.0/0.433kV, 2500KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
6.4	11.0/3.45kV, 5000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
7	MOG (No. each Rating)														
7.1	11.0/0.433kV, 1000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
7.2	11.0/0.433kV, 1600KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
7.3	11.0/0.433kV, 2500KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
7.4	11.0/3.45kV, 5000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
8	Buchholz relay complete (No. each Rating)														
8.1	11.0/0.433kV, 1000KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
8.2	11.0/0.433kV, 1600KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
8.3	11.0/0.433kV, 2500KVA	1	No	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only

8.4	11.0/3.45kV, 5000KVA	1	No	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
9	Set of gaskets (see Note 1) (set each Rating)													
9.1	11.0/0.433kV, 1000KVA	1	Set	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
9.2	11.0/0.433kV, 1600KVA	1	Set	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
9.3	11.0/0.433kV, 2500KVA	1	Set	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
9.4	11.0/3.45kV, 5000KVA	1	Set	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
10	Set of valves (No. of each type / size)													
10.1	11.0/0.433kV, 1000KVA	2	Nos	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
10.2	11.0/0.433kV, 1600KVA	2	Nos	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
10.3	11.0/0.433kV, 2500KVA	2	Nos	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
10.4	11.0/3.45kV, 5000KVA	2	Nos	8504	INR		0.0000		0.0000		0.0000	0.000	0.000	INR Zero Only
Total in Figures												0.000	0.000	INR Zero Only
Quoted Rate in Words		INR Zero Only												

Help

**Tender Enquiry No.: PE/PG/PA1/E-6643/2021 dt. 25/05/2021**

Name of the Bidder/ Bidding Firm / Company :															
<b>NOTES:</b> <b>1) BIDDER SHALL SUPPLY 10% EXTRA OIL AS PER THE QUOTED PRICE. QUANTITY OF EXTRA OIL SHALL BE SUBJECT TO APPROVAL DURING DETAIL ENGINEERING.</b>															
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	TEXT	NUMBER	NUMBER	NUMBER #	NUMBER #	TEXT #
S. No.	Item Description	Quantity	Units	HSN Code	Quoted Currency in INR / Other Currency	UNIT EX-WORKS PRICE In Figures To be entered by the Bidder	TOTAL EX-WORKS PRICE	FREIGHT RATE	FREIGHT AMOUNT	GST TYPE	GST RATE	GST AMOUNT	TOTAL AMOUNT Without Taxes [TOTAL EX-WORKS + FREIGHT]	TOTAL AMOUNT With Taxes [TOTAL EX-WORKS + FREIGHT + GST]	TOTAL AMOUNT In Words
1	2	4	5	7	12	13	14	15	16	18	20	21	53	54	55
1	EXTRA OIL (10%) IN SEALED NON RETURNABLE STANDARD DRUMS for 1000kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=5.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	4	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
2	EXTRA OIL (10%) IN SEALED NON RETURNABLE STANDARD DRUMS for 1600kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=6.25%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	4	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
3	EXTRA OIL (10%) IN SEALED NON RETURNABLE STANDARD DRUMS for 2500kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=10.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)	32	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
4	EXTRA OIL (10%) IN SEALED NON RETURNABLE STANDARD DRUMS for 5000kVA, 11kV/3.45kV, 3 phase, 2 winding, outdoor, ONAN, Z=7%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with cable box type LVN termination)	4	Nos	8504	INR		0.0000		0.0000			0.0000	0.000	0.000	INR Zero Only
Total in Figures													0.000	0.000	INR Zero Only
Quoted Rate in Words		INR Zero Only													

Tender Inviting Authority: Bharat Heavy Electricals Limited-Project Engineering Management, Noida

Name of Work: BOQ cum PRICE SCHEDULE OF TYPE / SPECIAL TEST OF OIL FILLED SERVICE TRANSFORMER FOR 3X800 MW PVUNL PATRATU TPP PHASE-I

Tender Enquiry No.: PE/PG/PA1/E-6643/2021 dt. 25/05/2021

<div> <div>Name of the Bidder/ Bidding Firm / Company :</div> <div></div> </div>													
<div> <div>NOTES:</div> <div> <div>1. CHARGES FOR CARRYING OUT SHORT CIRCUIT TEST SHALL BE PAYABLE BASED ON ACTUAL INVOICE FROM DESIGNATED LABORATORIES (CPRI, BHOPAL / CPRI, BANGALORE / ERDA, VADODARA) WITH AN ADDITIONAL LUMP SUM AMOUNT OF 5% OF EX-WORKS PRICE OF TRANSFORMER BEING TESTED TO COVER HANDLING COSTS (TRANSPORTATION, INSURANCE ETC.).</div> <div>2. IN CASE TYPE / SPECIAL TESTS ARE WAIVED, THE TYPE / SPECIAL TEST CHARGES SHALL NOT BE PAYABLE TO THE BIDDER.</div> <div>3. CHARGES FOR ALL TYPE / SPECIAL TESTS EXCEPT SHORT CIRCUIT TEST SHALL BE CONSIDERED FOR PRICE COMPARISONS PURPOSE.</div> <div>4. IN CASE ANY OF THE TYPE / SPECIAL TESTS ARE REQUIRED TO BE REPEATED, THEN SAME SHALL BE CARRIED OUT BY THE VENDOR WITHOUT ANY COMMERCIAL / DELIVERY IMPLICATION TO BHEL.</div> </div> </div>													
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	TEXT #	NUMBER #	NUMBER	TEXT	NUMBER	NUMBER	NUMBER #	NUMBER #	TEXT #
S. No.	Item Description	Quantity	Units	HSN Code	Quoted Currency in INR / Other Currency	UNIT EX-WORKS PRICE In <b>Figures</b> To be entered by the Bidder	TOTAL EX-WORKS PRICE	GST TYPE	GST RATE	GST AMOUNT	TOTAL AMOUNT Without Taxes TOTAL EX-WORKS + FREIGHT)	TOTAL AMOUNT With Taxes (TOTAL EX-WORKS + FREIGHT + GST)	TOTAL AMOUNT In Words
1	2	4	5	7	12	13	14	18	20	21	53	54	55
1	1000kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=5.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)												
1.1	TANK PRESSURE TEST	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
1.2	TANK VACUUM TEST	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
1.3	MEASUREMENT OF ACOUSTIC NOISE LEVEL AS PER NEMA TR-1 (SPECIAL TEST)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
1.4	TEMPERATURE RISE TEST AT A TAP CORRESPONDING TO MAXIMUM LOSSES. (Gas Chromatography shall be conducted on oil sample taken before & immediately after temp. rise test. Gas analysis shall be as per IS: 9434 (based on IEC: 60567), results will be interpreted as per IS: 10593 (based on IEC: 60599). Result shall be recorded for future reference).	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
1.5	LIGHTNING IMPULSE(FULL & CHOPPED WAVE) TEST ON WINDINGS (AS PER IEC 60076-3)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
1.6	SHORT CIRCUIT TEST (SPECIAL TEST) AS PER IEC 60076-5 (AS PER NOTE 1)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
2	1600kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=6.25%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)												
2.1	TANK PRESSURE TEST	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
2.2	TANK VACUUM TEST	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
2.3	MEASUREMENT OF ACOUSTIC NOISE LEVEL AS PER NEMA TR-1 (SPECIAL TEST)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
2.4	TEMPERATURE RISE TEST AT A TAP CORRESPONDING TO MAXIMUM LOSSES. (Gas Chromatography shall be conducted on oil sample taken before & immediately after temp. rise test. Gas analysis shall be as per IS: 9434 (based on IEC: 60567), results will be interpreted as per IS: 10593 (based on IEC: 60599). Result shall be recorded for future reference).	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
2.5	LIGHTNING IMPULSE(FULL & CHOPPED WAVE) TEST ON WINDINGS (AS PER IEC 60076-3)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
2.6	SHORT CIRCUIT TEST (SPECIAL TEST) AS PER IEC 60076-5 (AS PER NOTE 1)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only

3	2500kVA, 11kV/0.433kV, 3 phase, 2 winding, outdoor, ONAN, Z=10.0%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with solidly grounded LVN termination)												
3.1	TANK PRESSURE TEST	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
3.2	TANK VACUUM TEST	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
3.3	MEASUREMENT OF ACOUSTIC NOISE LEVEL AS PER NEMA TR-1 (SPECIAL TEST)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
3.4	TEMPERATURE RISE TEST AT A TAP CORRESPONDING TO MAXIMUM LOSSES. (Gas Chromatography shall be conducted on oil sample taken before & immediately after temp. rise test. Gas analysis shall be as per IS: 9434 (based on IEC: 60567), results will be interpreted as per IS: 10593 (based on IEC: 60599). Result shall be recorded for future reference).	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
3.5	LIGHTNING IMPULSE(FULL & CHOPPED WAVE) TEST ON WINDINGS (AS PER IEC 60076-3)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
3.6	SHORT CIRCUIT TEST (SPECIAL TEST) AS PER IEC 60076-5 (AS PER NOTE 1)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
4	5000kVA, 11kV/3.45kV, 3 phase, 2 winding, outdoor, ONAN, Z=7%, Dyn1, OFF Circuit taps ±5% in steps of 2.5% (with cable box type HV, with bus-duct type LV and with cable box type LVN termination)												
4.1	TANK PRESSURE TEST	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
4.2	TANK VACUUM TEST	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
4.3	MEASUREMENT OF ACOUSTIC NOISE LEVEL AS PER NEMA TR-1 (SPECIAL TEST)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
4.4	TEMPERATURE RISE TEST AT A TAP CORRESPONDING TO MAXIMUM LOSSES. (Gas Chromatography shall be conducted on oil sample taken before & immediately after temp. rise test. Gas analysis shall be as per IS: 9434 (based on IEC: 60567), results will be interpreted as per IS: 10593 (based on IEC: 60599). Result shall be recorded for future reference).	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
4.5	LIGHTNING IMPULSE(FULL & CHOPPED WAVE) TEST ON WINDINGS (AS PER IEC 60076-3)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
4.6	LIGHTNING IMPULSE ON NEUTRAL	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only
4.7	SHORT CIRCUIT TEST (SPECIAL TEST) AS PER IEC 60076-5 (AS PER NOTE 1)	1	No	998346	INR		0.0000			0.0000	0.000	0.000	INR Zero Only



[Validate](#)
[Print](#)
[Help](#)
[Item Rate BoQ](#)

Tender Inviting Authority: Bharat Heavy Electricals Limited-Project Engineering Management, Noida

Name of Work: COST OF WITHDRAWAL FOR OIL FILLED SERVICE TRANSFORMER FOR 3X800 MW PVUNL PATRATU TPP PHASE-I

Tender Enquiry No.: PE/PG/PA1/E-6643/2021 dt. 25/05/2021

Name of the Bidder/ Bidding Firm / Company :										
<p><b>ANNEXURE-II (COST OF WITHDRAWAL)</b>  <b>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only ).</b></p> <p>NOTES:</p> <p>1. Cost of Withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties &amp; freight) only.</p> <p>2. All the bidders have to list out all their technical &amp; commercial deviations (if any) in details in the above format.</p> <p>3. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.</p> <p>4. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawl of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable. In absence of same, such deviation(s) shall not be considered and offer shall be considered in total compliance to NIT.</p> <p>5. Bidder shall furnish price copy of above format along with price bid.</p> <p>6. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.</p> <p>7. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.</p> <p>8. For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawl of deviation loading as per Annexure-VII of GCC, Rev-07 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawl of deviation shall be taken as NIL.</p> <p>9. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.</p> <p>10. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.</p> <p>11. Cost of withdrawl is to be given seperately for each deviation. In no event bidder should club cost of withdrawl of more than one deviation else cost of withdrawl of such deviations which have been clubbed together shall be considered as NIL.</p> <p>12. In case nature of cost of withdrawl (positive/negative) is not specified it shall be assumed as positive.</p> <p>13. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.</p>										
NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER	TEXT	TEXT	TEXT	TEXT	NUMBER #	TEXT #
Sl. No.	Item Description	Quoted Currency in INR / Other Currency	Cost of withdrawl of deviation to be entered by the bidder in Rs.	Page no.	Technical specification/tender document clause no.	Reference of price schedule of which cost of withdrawl of deviation is applicable	Nature of cost of withdrawl of deviation (positive/Negative)	Reasons for quoting deviation	TOTAL AMOUNT Without Taxes in Rs.	Total FOR site Price In Words
1	2	12	13	23	24	30	31	36	53	55
1.01	TECHNICAL DEVIATION									
1.02	Technical deviation	INR							0.000	INR Zero Only
1.03	Technical deviation	INR							0.000	INR Zero Only
1.04	Technical deviation	INR							0.000	INR Zero Only
1.05	Technical deviation	INR							0.000	INR Zero Only
2	COMMERCIAL DEVIATION									
2.01	Commercial deviation	INR							0.000	INR Zero Only
2.02	Commercial deviation	INR							0.000	INR Zero Only
2.03	Commercial deviation	INR							0.000	INR Zero Only
2.04	Commercial deviation	INR							0.000	INR Zero Only
Total in Figures									0.00	Zero Only
Quoted Rate in Words		INR Zero Only								

**Letter head of Company (<Rs. 10 Cr value)**

Ref.....

Date.....

To,

Bharat Heavy Electricals Limited PEM,

PPEI Building, Plot No 25, Sector -16A,

Noida (U.P)-201301

**Subject: -Certification regarding local content**

Reference: Tender Enquiry No-.....

Name of Package: .....

Dear Sir,

We hereby certify that items offered by us of .....(package name).....for.....(Project Name/Rate contract)..... meets the requirement of minimum local content in line with Cl. No..... of NIT No..... dated..... and the Public Procurement (Preference to Make in India), Order 2017 dated-15.06.2017, 28.05.2018, 29.05.2019 , 04.06.2020 &16.09.2020.

Local Content- .....%

We further confirms that details of location at which the local value addition is made will be our registered works at .....(address of the works)

Yours very truly

.....(authorized signatory of company)

.....(firm name)

## **Guidelines for Remote Inspection of PEM BOIs**

### **1) OBJECTIVE:**

To lay down the procedure for carrying out Remote Inspection of Bought-out Items (BOIs) for PEM suppliers wherever applicable.

### **2) SCOPE:**

It will cover suppliers for packages of PEM BOIs for various project requirements.

Invitation is sent to the suppliers for remote inspection on applications like MS Teams, Webex, etc. by BHEL.

### **3) MINIMUM REQUIREMENTS AT SUPPLIER'S WORKS:**

- i. Uninterrupted internet services
- ii. Good internet bandwidth (Min 100 Mbps)
- iii. Good resolution camera (2 nos) – one preferably CCTV (static at one place) and one hand hold (moving)
- iv. Smart phone with minimum 8MPi camera front and back both with optical zoom facility suitable for using web applications like Webex, MicroSoft (MS) Teams, etc.
- v. Computer and Scanner with good resolution
- vi. Digital signatures of supplier's Quality Engineer
- vii. Availability of web applications like Webex, MicroSoft (MS) Teams, as required.
- viii. All Test certificates, internal test reports, calibration reports, etc. for the items offered for inspection.
- ix. Availability of the above to be submitted to BHEL two days in advance before inspection.
- x. Dedicated team from supplier side for facilitating inspection requirements.
- xi. For ensuring proper visibility, the suggested Portable lighting sources (torch/ electric LED bulb of minimum 15 W) with no glare is to be ensured at offered job, location for remote inspection/testing. This is to be verified before start of the inspection.
- xii. The GPS location co-ordinates or any method to locate inspection location shall be captured indicating the location of the Vendor-Premises of remote inspection/testing.

### **4) MINIMUM REQUIREMENTS AT BHEL and CUSTOMER LOCATION :**

- i. Uninterrupted internet services
- ii. Suitable internet bandwidth
- iii. Digital signatures wherever required.
- iv. Availability of web applications like Webex, MS Teams, etc. as required.
- v. Clearance from customer for conducting remote inspection

### **5) PROCEDURE:**

- i. Supplier will raise the inspection call in BHEL - CQIR portal.
- ii. Supplier shall ensure availability of minimum requirements at supplier's works as mentioned above at point 3.

- iii. Before starting the inspection, the supplier shall submit the documents (TCs, internal test reports and calibration certificates as per approved QAP) two days before the date of inspection for review by BHEL and supplier shall coordinate with BHEL and if found satisfactory, inspection shall be considered for remote.
  - iv. Prior to commencement of remote inspection a pre inspection meeting shall be organised by BHEL inspector with supplier to ascertain the readiness for remote inspection.
- 6) During inspection, supplier shall share the location on Google maps for verifying the address of the manufacturer. Location may be captured by BHEL as screenshot.
- i. Inspection shall be on the basis of approved Quality Plans and associated reference documents mentioned.
  - ii. For witnessing inspection, supplier shall bring the mobile video camera near to the surface of the equipment or as per requirement of the inspector for clarity in viewing the test/ equipment which shall be the responsibility of supplier. Supplier shall ensure that proper lighting is available during live video streaming.
  - iii. Before start of the inspection, inspector shall ensure that all instruments shall have valid calibration report. Supplier shall ensure use of digital instruments preferably for inspection to the extent possible.
  - iv. Details of suppliers's dedicated team handling the remote inspection shall also be incorporated in the CQIR.
  - v. All details of inspection/ testing referred documents shall be mentioned in the CQIR. Recording of remote inspection shall be maintained by the BHEL inspector and this recording (unedited) shall be maintained at BHEL system for a minimum period of 3 years or till the warranty period whichever is later.
  - vi. PEM (Engineering) shall accord final technical clearance, in case of any deviation in inspected item noticed during inspection.
  - vii. Inspection shall be conducted by PEM-Q&BE assigned inspector along with PEM-Engg (if required). CQIR shall be prepared and maintained by PEM-Q&BE.
  - viii. PG will issue MDCC on the basis of acceptance of inspected items along with accepted packing photographs as per contract provisions.
- 7) **UNDERTAKING BY VENDOR:** Material inspected through remote inspections is meeting all technical requirements of BHEL. In case of any discrepancy from the above procedure/ material inspected, if found later, vendor will replace the materials without any cost implication to BHEL.
- 8) Vendor shall provide the signed and stamped of the above guidelines to BHEL as a token of acceptance.

**BHEL PEM-ELECTRICAL**

**PRE-QUALIFYING REQUIREMENTS FOR OIL FILLED SERVICE TRANSFORMER**

**ANNEXURE –I**

**PROJECT SPECIFIC CRITERIA AGAINST ENQUIRY**

**PROJECT: 3X800 MW PATRATU STPS EXPANSION PHASE-I**

1. The Bidder/ Sub-Vendor should have manufactured & supplied at least two numbers (one each at two different installations) of 16 MVA, 11 kV or higher rating oil filled transformers which should have been in successful operation for a period of at least two (2) years.
2. Bidder/ Sub-Vendor should have his own facilities for conducting all routine and type tests as per IS: 2026 (except short circuit test).
3. 16 MVA, 11 kV Class or higher rated oil filled transformer manufactured by Bidder/ Sub-Vendor should have been successfully short circuit tested.

**Notes:**

- (i) Two different installations means two different project sites or two different contracts.
- (ii) Equipment designed by the Bidder/Sub-vendor by itself or through its collaborator/associate for reference plant, shall also be considered meeting the requirement of design.
- (iii) In case of any conflict of project specific PQR with main PQR, vendor to furnish document meeting the stringent requirement between the main PQR and project specific PQR.

[Dealing Engineer]

[Controlling Officer]

[Section Head]

[DH-Electrical]



**PRE-QUALIFICATION REQUIREMENTS FOR  
OIL FILLED SERVICE TRANSFORMER**

PE-PQ-999-302-E001

REVISION NO. 03 DATE 29/04/2016

SHEET NO. 1 OF 1

**ITEMS :** Oil filled service transformers

**Range of transformers :** 500 – 10000 kVA; HV wdg : 66/33/11/6.6/3.3 kV; LV wdg : 11/6.6/3.3/0.415 kV

The complete range is divided into 2 categories and the vendor can be considered for evaluation for the complete range or either of the 2 categories :

**Cat 1 – LV service transformers;** 500-2500 kVA (LV wdg. - 415V)

**Cat 2 – MV service transformers;** above 2.0 MVA & upto 10 MVA (LV wdg - 3.3kV & above)

**SCOPE:** Supply : YES; Erection & Commissioning : NO;

1	Availability of type test certificates (including short circuit test) conducted at independent Lab or witnessed by third party for at least one design for the applicable category of transformers.
2	Vendor should be designer & manufacturer of oil filled service transformers for the applicable category.
3	In-house capability to carry out all routine and type tests as per IS (other than short circuit, degree of protection & impulse tests which can be conducted at Govt. Lab/ Govt. approved Independent lab) for the applicable category of transformers.
4	Option -1 : Performance certificates for min. 2 years of trouble free operation at minimum 2 different installations/sites for the applicable category of transformers. Performance certificate should be from end user only. OR Option-2 : Repeat orders received from two different purchasers/end users for the applicable category of transformers during last 5 years provided the gap between award of two PO's is minimum 2 years. OR Option-3 : 1 no. performance certificate (as per Option-1) and 1 no. repeat order (as per Option-2). OR Option-4 : Successful execution of a major order from BHEL-PEM for the applicable category of transformers.
5	Minimum no. of transformers supplied in the last 10 years from the date of application for registration or date of techno- commercial bid opening (as applicable): <ul style="list-style-type: none"><li>- 50 nos. in Category 1 with at least 20 nos. in range of 1000 to 2500 kVA</li><li>- 20 nos. in Category 2</li></ul>
6	Minimum two (2) nos. purchase orders for the applicable category of transformers shall be submitted which should not be more than five(5) years old from the date of application for registration or date of techno- commercial bid opening (as applicable) for establishing continuity in business.

**NOTE:**

Supplier to comply to "general points of PQR" available at <http://bhelpem.com/vensection/PMD/PMD.aspx>  
In case supplier is not OEM, the offer shall be evaluated as per point no 1 of "general points of PQR".

PREPARED BY

*Abhay*  
29/04/16

NAME: ABHAY AGRAWAL  
DESIGNATION: MANAGER

REVIEWED BY

*Rajnish*  
28/4/16.

NAME: RAJNISH GOYAL  
DESIGNATION: AGM

APPROVED BY

*Meena*  
29.04.16

NAME: MEENA KESRI  
DESIGNATION: AGM & DHC



## PRE - QUALIFYING REQUIREMENTS

ENQUIRY NO:

PROJECT :

3 X 800 MW PVUNL PATRATU TPP PHASE - I

PACKAGE:

OIL FILLED SERVICE TRANSFORMER

### CRITERIA FOR EVALUATION - FINANCIAL :

Average annual financial turnover during the last Three Financial Years should not be less than Amount (in Rs.)  
Rs.4,39,00,000.00  
Rupees FOUR CRORE THIRTY NINE LAKH(S) Only

#### Notes:-

a) The bidder has to submit financial accounts (audited, if applicable comprising of Audit report, Balance Sheet, Profit & Loss A/c Statement and Notes/Schedules pertaining to Turnover/Sales/Revenue), for last three years (or from the date of incorporation, whichever is less) as on tender due date to review the above criteria. In case the incorporation of vendor is less than 3 years, average annual financial turnover shall be calculated based on available information as below:-

i) If the accounts are available for  $\leq 1$  Financial Year, the Average Annual Turnover shall be calculated based on available information divided by 1 (One).


ii) If the accounts are available for  $>1$  but  $\leq 2$  Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 2 (Two).

iii) If the accounts are available for  $>2$  but  $\leq 3$  Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 3 (Three).

b) Foreign bidder is to submit a latest report from reputed third party business rating agency like Dun & Bradstreet, Credit reform etc. in addition to the documents mentioned at point (a) above for review of above criteria.


c) Other Income shall not be considered for arriving at Annual Turnover/Sales. For evaluation purpose, Turnover figure excluding taxes shall be considered.

d) For evaluation of foreign bidder, exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid in case of two part bid) shall be considered.

	<b>CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन</b> <b>MAIN CONTRACTOR'S PROPOSAL CUM EVALUATION REPORT</b> <b>मुख्य संविदाकार प्रस्ताव सह मुल्यांकन रिपोर्ट</b>	


Ref No:				Date:			
संदर्भ सं.:				तिथि:			
i.	Main Contractor मुख्य संविदाकार						
ii.	Project परियोजना						
iii.	Package Name पैकेज का नाम			Package No पैकेज सं.			
iv.	Proposed Item/Scope of Sub-contracting उप- संविदा(अनुबंध) का प्रस्तावित मद/ दायरा						
v.	Item covered under निम्नलिखित के अंतर्गत शामिल मद	Schedule-1 /अनुसूची- 1		<input type="checkbox"/>		As per contract clause No- अनुबंध के अनुसार खंड सं.- -	
		Schedule-2 अनुसूची- -2		<input type="checkbox"/>			
vi.	If item is Schedule-1 and proposed sub-vendor is  indigenous, Main Contractor to explain how the  contractual provisions will be fulfilled /यदि  मद अनुसूची -1 है और प्रस्तावित उप-विक्रेता स्वदेशी है, तो मुख्य संविदाकार को स्पष्ट करना होगा कि संविदा/अनुबंध के प्रावधान कैसे पूरे किए जाएंगे						
vii.	Name and Address of the proposed Sub-vendor's works /प्रस्तावित सब-वेंडर का नाम तथा पता						
viii.	PO placement date/ Start of manufacturing (if self-manufactured) as per L2 network पीओ नियोजन की तिथि / एल- 2 नेटवर्क के अनुसार विनिर्माण (यदि स्व-निर्मित है) की शुरुआत						
ix.	Item Description (Type/Size/Rating/Scope of Sub-Contracting) मद का विवरण (प्रकार / आकार / रेटिंग / उप-अनुबंध का दायरा)	Total quantity of proposed item envisaged in this package (Nos/ Running Meters/ Kgs/ Tons etc) इस पैकेज में परिकल्पित प्रस्तावित मद की कुल मात्रा (संख्या / क्रियाशील मीटर / किलोग्राम / टन आदि)	Quantity proposed to be procured from proposed sub-vendor (Nos/ Running Meters /Kgs /Tons etc) प्रस्तावित उप-विक्रेता (संख्या / क्रियाशील मीटर / किलोग्राम / टन आदि) से खरीदी जाने वाली मात्रा	Timeline for quantity requirements as per project schedule & whether the proposed Sub-vendor equipped with adequate capacity to supply proposed order quantity in time / परियोजना समय सूची के अनुसार मात्रा आवश्यकताओं के लिए समय-सीमा और क्या प्रस्तावित उप-विक्रेता समय पर प्रस्तावित मांग की मात्रा की आपूर्ति करने में पूरी तरह से सक्षम है			
x.	Supply experience of the proposed sub-vendor (including supplies to Main Contractor, if any) for similar item/scope of sub-contracting, for last 3 years (Note:- Only relevant experience details w.r.t. proposed item/scope of subcontracting to be brought out here) पिछले 3 वर्षों के लिए उप-अनुबंध के समान मद / दायरे के लिए प्रस्तावित सब-वेंडर (मुख्य संविदाकार हेतु आपूर्ति, यदि कोई हो, सहित) का आपूर्ति अनुभव (नोट: - उप-अनुबंध के प्रस्तावित मद / दायरे के संबंध में केवल प्रासंगिक अनुभव के विवरण का उल्लेख हो						




	<b>CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन</b> <b>MAIN CONTRACTOR'S PROPOSAL CUM EVALUATION REPORT</b> <b>मुख्य संविदाकार प्रस्ताव सह मुल्यांकन रिपोर्ट</b>	

	<b>Project/Package</b> परियोजना/पैकेज	<b>Customer Name</b> ग्राहक का नाम	<b>Supplied Item</b> (Type/Rating/Model /Capacity/Size etc) आपूर्ति मद्द (प्रकार/रेटिंग /मॉडल /क्षमता/आकार आदि)	<b>PO ref</b> no/date पीओ संदर्भ सं. /तिथि	<b>Supplied Quantity</b> आपूर्ति की मात्रा	<b>Date of Supply</b> आपूर्ति की तिथि	
<i>We confirm that as per our assessment, the proposed sub-vendor has requisite capabilities &amp; supply experience and is suitable for supplying the proposed item/scope of sub-contracting/हम अपने आकलन के अनुसार इस बात की पुष्टि करते हैं कि, प्रस्तावित उप-विक्रेता के पास अपेक्षित क्षमता और आपूर्ति करने का अनुभव है और उप-अनुबंध के दायरे /प्रस्तावित मद्द की आपूर्ति के लिए उपयुक्त है।</i>							
<b>Name:</b>		<b>Desig:</b>		<b>Contact No:</b>		<b>Sign:</b>	
नाम:		पद:		दूरभाष सं.:		हस्ताक्षर:	तिथि:


**Company's Seal/Stamp:-** कंपनी का मुहर:-

	<b>CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन</b> <b>SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली</b>
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i.	<b>Item/Scope of Sub-contracting</b> उप-संविदा(अनुबंध) का मद/ दायरा			
ii.	<b>Address of the registered office</b> पंजीकृत कार्यालय का पता  	<b>Details of Contact Person</b> संपर्क व्यक्ति का विवरण  <b>(Name, Designation, Mobile, Email)</b> (नाम, पदनाम, मोबाइल, ईमेल)		
iii.	<b>Name and Address of the proposed Sub-vendor's works where item is being manufactured</b> प्रस्तावित उप-विक्रेता के कार्यों का नाम और पता, जहां मद का निर्माण किया जा रहा है  	<b>Details of Contact Person:</b> संपर्क व्यक्ति का विवरण  <b>(Name, Designation, Mobile, Email)</b> (नाम, पदनाम, मोबाइल, ईमेल)		
iv.	<b>Annual Production Capacity for proposed item/scope of sub-contracting</b> उप-संविदा(अनुबंध) के प्रस्तावित मद / दायरे के लिए वार्षिक उत्पादन क्षमता			
v.	<b>Annual production for last 3 years for proposed item/scope of sub-contracting</b> उप-संविदा(अनुबंध) के प्रस्तावित मद / दायरे के लिए पिछले 3 वर्षों का वार्षिक उत्पादन			
vi.	<b>Details of proposed works</b> प्रस्तावित कार्यों का विवरण			
1.	<b>Year of establishment of present works</b> वर्तमान फैक्टरी की स्थापना का वर्ष			
2.	<b>Year of commencement of manufacturing at above works</b> उपरोक्त फैक्टरी में निर्माण कार्य शुरू होने का वर्ष			
3.	<b>Details of change in Works address in past (if any)</b> पूर्व में फैक्टरी स्थल में परिवर्तन का विवरण (यदि कोई हो)			
4.	<b>Total Area</b> कुल क्षेत्र <b>Covered Area</b> शामिल क्षेत्र			
5.	<b>Factory Registration Certificate</b> फैक्टरी पंजीकरण प्रमाण पत्र	<b>Details attached at Annexure – F2.1</b> विवरण अनुलग्नक-एफ 2.1 पर संलग्न है		
6.	<b>Design/ Research &amp; development set-up</b> डिजाइन / अनुसंधान और विकास सेटअप <b>(No. of manpower, their qualification, machines &amp; tools employed etc.)</b> (श्रमिकों की संख्या, उनकी योग्यता, मशीन और उपलब्ध उपकरण आदि)	<b>Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design)</b> <b>Details attached at Annexure – F2.2</b> <b>(if applicable)</b> लागू / लागू नहीं, अगर विनिर्माण मुख्य संविदाकार / खरीददार के डिजाइन के अनुसार है) विवरण अनुलग्नक –एफ 2.2 पर संलग्न है। (यदि लागू हो)		
7.	<b>Overall organization Chart with Manpower Details (Design/Manufacturing/Quality etc)</b> मैनपावर विवरण के साथ समग्र संगठन का चार्ट( डिजाइन / विनिर्माण / गुणवत्ता आदि )	<b>Details attached at Annexure – F2.3</b> विवरण अनुलग्नक – F2.3 में संलग्न है।		

	<b>CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन</b> <b>SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली</b>
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8.	<b>After sales service set up in India, in case of foreign sub-vendor(Location, Contact Person, Contact details etc.)</b> भारत में बिक्री सेवा की स्थापना के बाद, विदेशी उप-विक्रेता के मामले में( स्थल , संपर्क व्यक्ति, संपर्क विवरण आदि)	<b>Applicable / Not applicable</b> लागू / लागू नहीं  <b>Details attached at Annexure – F2.4</b> विवरण अनुलग्नक -2.4 पर संलग्न है।			
9.	<b>Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any</b> फ्लोचार्ट सहित विनिर्माण प्रक्रिया निष्पादन योजना , जिसमें आउटसोर्स प्रक्रिया, यदि कोई हो, सहित कच्चे माल से तैयार उत्पाद तक विनिर्माण के विभिन्न चरणों को दर्शाया गया हो,	<b>Details attached at Annexure – F2.5</b> विवरण अनुलग्नक - F2.5में संलग्न है।			
10.	<b>Sources of Raw Material/Major Bought Out Item</b> कच्चे माल के स्रोत / खरीदे हुए मुख्य मद	<b>Details attached at Annexure – F2.6</b> विवरण अनुलग्नक - F2.6में संलग्न है।			
11.	<b>Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing</b> कच्चे माल / खरीदे हुए मद, प्रक्रियाबद्ध, अंतिम परीक्षण, पैकिंग करते समय गुणवत्ता नियंत्रण	<b>Details attached at Annexure – F2.7</b> विवरण अनुलग्नक - F2.7 पर संलग्न है			
12.	<b>Manufacturing facilities (List of machines, special process facilities, material handling etc.)</b> विनिर्माण सुविधा(मशीनों की सूची, विशेष प्रक्रिया सुविधाएं, सामग्री रख-रखाव आदि)	<b>Details attached at Annexure – F2.8</b> विवरण अनुलग्नक - F2.8में संलग्न है।			
13.	<b>Testing facilities (List of testing equipment)</b> परीक्षण सुविधाएं( परीक्षण उपकरण की सूची )	<b>Details attached at Annexure – F2.9</b> विवरण अनुलग्नक – F2. 9 में संलग्न है।			
14.	<b>If manufacturing process involves fabrication then-</b> यदि निर्माण प्रक्रिया में फेब्रिकेशन की गई है तो- <b>List of qualified Welders</b> पात्र वेल्डर की सूची <b>List of qualified NDT personnel with area of specialization</b> विशेषज्ञता के क्षेत्र सहित पात्र एनडीटी कार्मिकों की सूची	<b>Applicable / Not applicable</b> लागू / लागू नहीं <b>Details attached at Annexure – F2.10</b> विवरण अनुलग्नक - F2.10में संलग्न है। <b>(if applicable)</b> लागू / लागू नहीं			
15.	<b>List of out-sourced manufacturing processes with Sub-Vendors' names &amp; addresses</b> सब-वेंडर द्वारा बाह्य स्रोतों (उनके नाम और पते सहित)से करवाएं गए निर्माण प्रक्रियाओं की सूची	<b>Applicable / Not applicable</b> लागू / लागू नहीं  <b>Details attached at Annexure. –F2.11</b> विवरण अनुलग्नक - F2.10में संलग्न है। <b>(if applicable)</b> (यदि लागू हो)			
16.	<b>Supply reference list including recent supplies</b> नवीनतम आपूर्ति सहित आपूर्ति संदर्भ सूची	<b>Details attached at Annexure – F2.12</b> विवरण अनुलग्नक - F2.12 में संलग्न है। <b>(as per format given below)</b> ( नीचे दिए गए प्रारूप के अनुसार )			
<b>Project/ package</b> परियोजना /पैकेज	<b>Customer Name</b> ग्राहक का नाम	<b>Supplied Item (Type/Rating/Model /Capacity/Size etc)</b> आपूर्ति की गई वस्तु (प्रकार / रेटिंग / मॉडल / क्षमता / आकार आदि)	<b>PO ref no/date</b> पीओ संदर्भ सं. / तिथि	<b>Supplied Quantity</b> आपूर्ति की मात्रा	<b>Date of Supply</b> आपूर्ति की तारीख
17.	<b>Product satisfactory performance feedback letter/certificates/End User Feedback</b> उत्पाद के संतोषजनक प्रदर्शन संबंधी फीडबैक पत्र / प्रमाण पत्र / अंतिम उपयोगकर्ता फीडबैक			<b>Attached at annexure - F2.13</b> अनुलग्नक F2. 3पर संलग्न है	

	<b>CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन</b> <b>SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली</b>
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18.	<b>Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating)</b> प्रस्तावित उत्पाद (एक समान या उच्च रेटिंग वाले) के लिए टाइप टेस्ट रिपोर्ट (टाइप टेस्ट विवरण, रिपोर्ट संख्या, एजेंसी, जांच की तारीख) का सारांश नोट: - रिपोर्ट प्रस्तुत करने की आवश्यकता नहीं है <b>Note:- Reports need not to be submitted</b>	<b>Applicable / Not applicable</b> लागू / लागू नहीं  <b>Details attached at Annexure – F2.14</b> विवरण अनुलग्नक - F2.1 4 में संलग्न है <b>(if applicable)</b> (यदि लागू हो)
19.	<b>Statutory / mandatory certification for the proposed product</b> प्रस्तावित उत्पाद के लिए वैधानिक / अनिवार्य प्रमाणीकरण	<b>Applicable / Not applicable</b> लागू / लागू नहीं  <b>Details attached at Annexure – F2.15</b> <b>(if applicable)</b> (यदि लागू हो)
20.	<b>Copy of ISO 9001 certificate</b> आईएसओ 9001 प्रमाण पत्र की प्रति <b>(if available)</b> (यदि उपलब्ध हो)	<b>Attached at Annexure – F2.16</b> अनुलग्नक में संलग्न - F2.1 6 है
21.	<b>Product technical catalogues for proposed item (if available)</b> प्रस्तावित मद के लिए उत्पाद तकनीकी कैटलॉग (यदि उपलब्ध हो)	<b>Details attached at Annexure – F2.17</b> विवरण अनुलग्नक - F2.1 7 में संलग्न है

<b>Name:</b>		<b>Desig:</b>		<b>Sign:</b>		<b>Date:</b>	
<b>नाम:</b>		<b>पद:</b>		<b>हस्ताक्षर:</b>		<b>तिथि:</b>	

**Company's Seal/Stamp:- कंपनी की मुहर / मोहर: -**

These Conditions shall be read and construed along with General Conditions of Contract (GCC) rev.06 & GST related Corrigendum to GCC rev.06, to be enclosed along with the tender enquiry. In case of any conflict or inconsistency, the conditions given in SCC shall prevail over the GCC and its corrigendum.

Sl No.	Title	Description
1.	Project Name	3 x 800 MW PVUNL PATRATU TPP PHASE-I (EPC)
2.	Nature of project & Type of Bidding	Non-Mega & ICB (International Competitive Bidding )
3.	Customer Order Ref No	01/PVUNL-CS-9585-001-2/NOA-FC dated 08.03.2018 01/PVUNL-CS-9585-001-2/NOA-SC dated 08.03.2018 01/PVUNL-CS-9585-001-2/NOA-TC dated 08.03.2018
4.	BHEL's Customer	PATRATU VIDYUT UTPADAN NIGAM LIMITED (subsidiary of NTPC Limited in joint venture with JBVNL )
5.	PVUNL GST No.	20AAICP3718K1ZH
6.	Customer Consultants	No consultant
7.	Consignee Address (Bill To)	For supply package: BHEL, Power Sector-Project Engineering Management, Power Project Engineering Institute, Plot No. 25, Sector-16A, Noida, Uttar Pradesh-201301. <b>GSTIN: 09AAACB4146P2ZC</b>  <b>For turnkey packages</b> (where BHEL-PEM will issue only the LOA and Purchase Order shall be issued by BHEL-PSWR): Construction Manager, BHEL site office, Patratu Vidyut Utpadan Njigam Ltd , PO: PTPS , Patratu , Ramgarh, Jharkhand - 829119 <b>BHEL PSWR GSTIN No.- 27AAACB4146P1ZF</b>
8.	Delivery Address (Ship To)	Construction Manager, Bharat Heavy Electricals Limited, Patratu Vidyut Utpadan Njigam Ltd, PO: PTPS , Patratu , Ramgarh ,Jharkhand - 829119
9.	BHEL Site Office Address	Construction Manager, Bharat Heavy Electricals Limited, Patratu Vidyut Utpadan Njigam Ltd , PO: PTPS , Patratu , Ramgarh, Jharkhand - 829119
10.	Location of Plant	Site is Located just outside the coal belt of South Karanpura in Ramgarh District of Jharkhand State. The nearest Railway Station is Patratu which is at a distance of about 4 km on Barkakhana-Barwadih Railway line.  <b>District: Ramgarh (state- Jharkhand)</b> <b>Next big cities to site: Ranchi</b> <b>Nearest Railway Station: - Patratu</b> <b>Nearest Airport: Ranchi (45 km by road from site)</b>
11.	Mode of Dispatch	Air, Road, Rail & Sea Transportation  For indigenous supplies: By Rail/Road on door delivery and freight pre-paid basis. For imported supplies: On C&F basis. Transit Insurance will be in BHEL scope
12.	Road Permit /E-waybill	Road Permit / E-way bill, to be arranged by Supplier/ transporter/ BHEL (as per GOI mandate).
13.	BHEL GSTIN Details	For supply packages: BHEL-PEM is registered in the State of Uttar Pradesh with GSTIN 09AAACB4146P2ZC

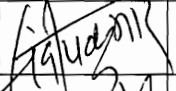
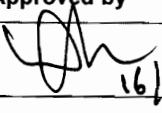
		<b>For Turnkey packages: BHEL PSWR GSTIN No.- 27AAACB4146P1ZF</b>
14.	Transit Insurance	<p>In BHEL Scope.</p> <p>For each dispatch, vendor shall inform the following to the Underwriter under intimation to BHEL-PEM and BHEL Site office:</p> <ul style="list-style-type: none"> <li>(i) Policy No.</li> <li>(ii) Consignee Name.</li> <li>(iii) Consignment Details (items with their weights and value (in INR).</li> <li>(iv) Project Name and P.O. No.</li> <li>(v) LR No. and date, Dispatch origin and destination details, Invoice No.</li> </ul> <p>Vendors to intimate the underwriters quoting the insurance Policy No. as mentioned in Purchase Order.</p>
15.	Dispatch intimation	<p>Yes in writing, Not less than 30 (Thirty) days prior to date of shipment and dispatch details to be sent to:</p> <p style="padding-left: 40px;">BHEL Site office (As mentioned in Sl. No. 9) BHEL PEM Noida (As mentioned in NIT)</p> <p>At the point of dispatch, vendor must furnish docs required as given below through Email / Fax</p> <ul style="list-style-type: none"> <li>i. Vendor's invoice</li> <li>ii. LR / RR / GR / Courier Receipt</li> <li>iii. Packing List/ Challan indicating the items dispatched (with their weights)</li> <li>iv. Insurance intimation letter informing the underwriters about the dispatches</li> <li>v. MDCC (of BHEL / NTPC) as applicable</li> <li>vi. Photograph of packing / boxes showing dispatch marking as per Sl. No. 26</li> </ul>
16.	Document required for Vendor's payment.	<p><b>For materials originating from Indian territory</b></p> <p>For claiming the payment against dispatch, MRC &amp; Freight, documents as mentioned in GCC rev 06 &amp; its corrigendum shall be submitted by vendor to BHEL. Original money receipt must be submitted for Freight payment.</p> <p><b>Packing List</b> must comply to Clause No. 19.3 of <del>General Commercial Terms &amp; Conditions of</del> GCC rev.06. Description of items in packing list shall be as per PO such that proper correlation between PO &amp; packing list must be furnished.</p> <p>Soft copy of documents for claiming payment shall be submitted by vendor as advance copy.</p> <p><b>For materials originating from non-Indian Territory</b></p> <p>Three (3) original and Three (3) copies of clean bill of lading or One (1) clean original Airway Bill &amp; Three (3) copies, in case of air freight.</p> <p>One (1) original and Three (3) copies of signed Invoices</p> <p>One (1) original and Three (3) copies of Packing List (clearly showing number of packages, gross weight and net weight).</p> <p>Three (3) copies of certificate of country of origin.</p> <p>Copy of MDCC from BHEL / NTPC (as applicable)</p> <p>Three (3) copies of inspection certificate, if any, issued by the customer/his authorized representative.</p> <p>Three (3) of certificate from the vendor to the effect that drawings and catalogues for customs clearance purpose have been kept with the packages for shipment.</p> <p>Three (3) copies of certificate from the vendor to the effect that the contents in each case are not less than that entered in the invoices and guaranteed as new and as per the relevant technical specifications.</p> <p>Shipping Specification – One (1) copy.</p> <p>Quality Certificate – One (1) copy.</p> <p>Approved Test Certificates, if any. - Three (3) copies.</p> <p>Guarantee Certificate – One (1) Original + One (1) copy.</p>

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		Inspection Reports – One (1) Original + One (1) copy. PVC Calculation and copy of all applicable indices, if PVC applicable. – Two (2) copies.
17.	Material Receipt Certificate (MRC)	A) For supply packages- BHEL-PEM will arrange MRC from BHEL site B) For Turnkey (Supply + Erection & Commissioning) – Original MRC duly signed by customer (PVUNL) & BHEL site is to be arranged by Vendor.
18.	Buyer and Paying Authority	For packages where PEM will issue the Purchase Order: <b>BHEL PEM</b> will be the paying authority. For packages where BHEL-PEM will issue only the LOA and Purchase Order shall be issued by BHEL-PSWR: <b>BHEL Patratu Site will be the paying Authority.</b>
19.	Demurrage charges	Demurrage charges shall be paid by supplier/ vendor only to the transporter. No claim shall be acceptable to BHEL in this regard.
20.	Unloading, Storage & Movement of material at site	a) By BHEL site office for supply packages. b) By vendors for Turnkey i.e. Supply and E&C packages
21.	Concessional custom duty against Essentiality certificate (EC)	<p>The project has been qualified through Project Import route. Accordingly, the benefits applicable to PI project would be granted for this project in this regard applicable documents such as Essentiality certificate will be issued by NTPC (ultimate customer). Under this, Concessional rate of Customs Duty shall be applicable on the Import Contents of the supplier respectively. Based on the above EC, Customs Duty Benefits will be passed on to the vendor. The Bidder to indicate the Import contents i.e. list of the item, Currency of Import and Country of Import including CIF value in their offers. BHEL shall inform, the availability of CIF value for a particular package, if any, at the time of NIT. The benefits availed in Concessional Customs Duty must be passed on to BHEL in their offer.</p> <p>Vendor shall inform BHEL and provide the necessary documents to obtain required certificates from BHEL to avail exemption. Obtaining custom duty benefit in line with the Essentiality Certificate issued shall be in vendor's scope.</p>
22.	Taxes & Duties (For Domestic Vendor)	As per General Conditions of Contract (GCC rev 06) & GST related Corrigendum to GCC rev.06
23. a	Taxes & Duties (For Order Directly to Foreign Bidders)- supply packages	In case of foreign vendors, quoted prices & Dispatches shall be on C & F (Port-Chennai) basis and the Taxes & duties in the country of dispatch shall be borne by Foreign vendor.
23. b	Taxes & Duties (For Order Directly to Foreign Bidders)- Turnkey packages	Complete responsibility of import including (but not limited to) import clearance, all taxes and duties in the country of export (origin), <del>all taxes and duties in India shall be to vendor's account</del> .
24.	Inspection Agency	BHEL/ BHEL approved 3rd party inspection agencies and/or NTPC/ Customer Agency as applicable.
25.	Inspection procedure for Domestic supplies	<p><u>For Domestic supplies</u> Vendor shall raise inspection call at least 15 business days in advance on BHEL CQS website to applicable inspection agency (as mentioned in PO/LOI or to be informed later) and submit copy of inspection call to BHEL-PEM for arranging NTPC inspection/Joint inspection on the proposed date, as applicable. MDCC shall be issued on the basis of clear inspection report (CQIR).</p> <p><u>For Foreign supplies</u> In case of Foreign supplies, if NTPC approved 3rd party inspection agency does not participate in the inspection, test certificates &amp; inspection reports duly accepted by the agreed Inspection agency shall be submitted in soft copy to BHEL-PEM. The same shall be reviewed by PEM and then, sent to NTPC for clearance. The dispatch clearance (MDCC) by NTPC/ BHEL as applicable shall be given to the foreign supplier or representative in India after acceptance of above test certificates.</p>

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26.	Packing, Identification & marking [if not specified in NIT]	<p>Each box shall be marked with Capital Letters in "Red" indicating the <b>PEM SUPPLY (Main Supply/ Commissioning Spares/ Mandatory Spares)</b> for 3 x 800 MW PVUNL PATRATU TPP.</p> <p><b>NOTE:</b> Main supply item and items for commissioning spares must be packed separately.</p> <p>Each package delivered under the Contract shall be marked by supplier and such marking must be distinct and in English language (all previous irrelevant markings being carefully obliterated). Such marking shall show the description and quantity of contents, the name and address of consignee, the Gross weight and Net weight of the package, the name of the Supplier, PEM P.O. reference number, with a distinctive number of mark sufficient for purposes of identification. Besides above necessary, packing shall bear a special marking 'TOP', 'BOTTOM', 'DO NOT TURN OVER', 'KEEP DRY', 'HANDLE WITH CARE', etc</p> <p><b>IMPORTANT: -</b></p> <ul style="list-style-type: none"> <li>Two copies of respective standard manufacturer's erection instruction/operation instruction manual shall be kept in each package / container for immediate reference by BHEL site and same shall be reflected in packing slip also</li> <li>The Packing list details for the consignment must be put inside the Box/Boxes.</li> </ul> <p>Items like pumps, Valves, Hoists, Cranes etc shall essentially have O&amp;M Manuals and E&amp;C guidelines duly enclosed in the packing box. Certificate to such effect shall also be reflected in packing slip.</p> <p>Mandatory spares shall be properly packed separately in separate box painted in Red, indicating <b>Mandatory Spares in bold letters</b> and each spare shall be properly tagged giving details i.e. item number of the equipment in line with the CUSTOMER approved BBU for Mandatory spares &amp; Number per item (to match the description given in the packing slip) to facilitate their proper identification by PVUNL/ NTPC. One Copy of Packing list must be put inside the Box along with Manufacturing drawing no. reference, Catalogue reference etc.</p>
27.	Submission of Final Drgs/Docs alongwith O&M Manual, Type Test Certificates (if any)	As per GCC rev.06/ Technical Specification/Kick-off meeting.

	Prepared by	Checked by	Reviewed by	Vetted by	Approved by
Name	Ganesh Garg	/		/	 16/05/18
Designation	Sr. Engr/ PG III	DGM/ PG III	DGM/ PG III	Finance	AGM & DH/ PG III
Signature	Ganesh Garg 08/5/18				DEEPAK GUPTA