

**Ref. Enquiry No.: PE/PG/BHU/E-6888/2021, Dated 21.02.2022**

DUE DATE
03 Mar 2022
BY 02:00 PM

Dear Sir/ Ma'am

**Subject: Open tender Enquiry for "OIL FILLED SERVICE TRANSFORMERS" for 1 x 660 MW BHUSAWAL TPS Project as per Technical Specification No. PE-TS-415-302-E001 REV 00.**

BHEL invites your offers for Design, Manufacture, Inspection and testing at Manufacturer's works, proper packing, alongwith supply of mandatory spares, special tools/tackles, Type Tests & SHORT CIRCUIT TEST and Frequency response analysis test after installation at site etc. to site for **1 x 660 MW BHUSAWAL Thermal Power Project Unit-6** as specified/ defined as per tender technical specification PE-TS-415-302-E001 Rev00, amendment & agreements till placement of order for **OIL FILLED SERVICE TRANSFORMER for 1 X 660 MW BHUSAWAL TPS.**

Your offer shall be submitted in two parts strictly as per Clause-2.0 of the "Instructions to Bidders" of GCC Rev. 07, in sealed cover for the below mentioned equipment/system.

Item Description – OIL FILLED SERVICE TRANSFORMER			
Sl. No.	Project	TECHNICAL SPECIFICATIONS REF.	Delivery completion schedule
1	1 x 660 MW BHUSAWAL TPS	PE-TS-415-302-E001	As per annexure – II to NIT

Your best quotation/offer for the above requirement, in line with tender terms and conditions, should be submitted **online via e-procurement system**. It shall be the responsibility of the bidder to ensure that the tender is submitted **on or before the due date by 02:00 PM**. Part-I bids shall be opened at **04:00 PM**. on the due date.

**Note:** 1. Detailed tender documents have been uploaded on following websites: -

<https://eprocurebhel.co.in>, <https://www.bhel.com/tenders>; <https://pem.bhel.com/Home.aspx>

**Bidders are requested to upload their best offer on <https://eprocurebhel.co.in>, only.**

2. In case bidders are not interested to quote, please send us the regret by e-mail or letter.

**ENQUIRY TERMS AND CONDITIONS:**

1. Offers should be submitted/uploaded separately in two parts **online through e-procurement system** as follows:

**Part-I: TECHNO-COMMERCIAL BID**

**Part-II: PRICE BID**

For detailed instructions, please refer GCC Rev 07- Instructions to Bidders.

2. Bidders shall submit their offers meeting the requirements of the following tender documents indicated in BHEL PEM GCC Rev- 07 and other Terms and Conditions included in this Enquiry Letter. Weblink of GCC Rev 07 shall be as below, **bidders may download the GCC Rev 07 from the given weblink and go through the same before quoting: -**

<https://www.bhelpem.com/Documents/GCC/GCCRev07.pdf>

3. Bidders to note that following form the part of tender documents:

- General Conditions of Contract (GCC) Rev 07 comprising of: Instructions to Bidders and General Commercial Terms & Conditions
- Technical Specifications
- Technical PQR
- Special Conditions of Contract (SCC Rev 01) of Bhusawal Project.
- Enquiry terms & conditions (NIT)
- Annexures I –III
- Integrity pact

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4. Any hidden conditions/deviations mentioned elsewhere in offer and standard pre-printed terms & conditions of the tenderers shall not be considered valid.
5. 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 of GCC Rev-07 along with reasons for taking such deviations in the bidding format in E-Procurement portal. Any deviations (Technical as well as Commercial) not mentioned in the Annexure-II shall not be considered. Bidders to note all the points mentioned in "Notes" of Annexure-II of GCC Rev.07.
6. If any bidder has mentioned the term "Not Applicable" / "not required" / "not quoted" in BHEL price format, the same to be substantiated by the bidder. If such item is required to be supplied for system completion in future, same will be supplied free of cost by the successful bidder.
7. 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.
8. Tenderers must enclose the Quality Plan in the prescribed format, for approval. Equipment will be dispatched only after Purchaser's/Owner's inspection of the hold points specified in the approved Quality Plan and issue of Material Dispatch Clearance Certificate (MDCC).
9. Offers should be submitted separately in two parts **online through e-procurement system only (NIC Portal)**, however, all correspondence thereof, shall be addressed to the undersigned by name & designation and sent at the following address:

<b>Mr. Mohit Kumar</b> Dy. Engineer, PG-III E-mail: mohitgupta@bhel.in Ph. +91-120-4368832; Mob: 7503530406	<b>Mr. Rajendra Prasad Yadav</b> Dy.MGR, PG-III E-Mail: rajendra.prasad.yadav@bhel.in Ph. No. +91-120-4368727; Mob: 9560148866	<b>Mr. S.K.Dubey</b> DGM, PG-III E-Mail: skdubey@bhel.in Ph. No. +91-120-4363635; Mob: 8800377855
<b>M/s. Bharat Heavy Electricals Ltd.,</b> <b>Project Engineering Management,</b> PPEI Building, Plot No 25, Sector-16A, Noida-201301, U.P., INDIA		

10. Evaluation will be done on L1 (Total cost to BHEL excluding GST) basis.
11. **MODE OF EVALUATION FOR FINALISATION OF PRICES (REVERSE AUCTION): -**  
"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on 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."  
"Vendors to note that above RA clause will supersede clause no 13 of "Instruction to Bidders" of GCC Rev 07"
12. **Govt. of India's Public Procurement Policy – Preference to Make in India Clause: -**  
For subject tender only **Class I local suppliers** are eligible to bid (in line with clause no. 3 (a) of MII circular no P-45021/2/2017-PP (BE-II) Dtd-16-09-2020, as this package is covered in the list of Local Capacity & Local Competition (LCLC) package. In case of subsequent orders issued by 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".  
The local supplier at the time of tender, bidding, solicitation, shall be required to provide self-certification that as per the offered item, they meet the requirements of Class I local supplier as per the provisions of PPP-MII Order of Govt. of India and relevant circulars issued by nodal ministry w.r.t. above mentioned orders and shall give details of location(s) at which the local value addition is made and percentage of local content as per enclosed annexure III/ revised formats which may be asked later.

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Subject package is **Non-divisible** in nature.

13. Bidders 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.
  - ensure compliance of Ministry of Finance (MoF) Order (Public Procurement No. 1 & 2) F. No. 6/18/2019/PPD dt. 23/07/2020.
  - 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.
- Note:** Subsequent orders/circulars to be checked and to be complied.
14. Bidder to note that this is a conditional Open Tender enquiry and the price bid (Part-II) opening/RA participation shall be subject to following condition: -
- A) Meeting of Technical PQR
- B) Techno-commercial qualification/recommendation of bidder by the BHEL-PEM.
- C) Approval of Vendor from end Customer (MAHAGENCO). Same shall be taken up by BHEL-PEM with customer based on the credentials/reference list/experience list furnished by bidders. Bidders to submit the credentials as per MAHAGENCO sub vendor format for approval.
- D) Offered item should mandatorily conform to PP-MII order provisions.
15. **Delivery Completion schedule:**  
Refer Annexure-II for delivery completion schedule.  
**Main Supply:** - Within Nine (09) months from date of CAT-1 approval of Primary drawing/documents, subjected to drawing/document submission/resubmission schedule as stipulated, in case of any delay in submission/re-submission of Primary drawing/documents, then same shall be reduced from the given delivery period. Delay in BHEL's comments/approval beyond 18 days shall also be considered for delay analysis.  
**Mandatory Spares:** - Four (04) months from the date of BHEL clearance. Separate manufacturing clearance shall be given for mandatory spares.  
Delivery schedule for Frequency response analysis test after installation at site: - Vendor to depute its service engineer for respective site activity within 15 days from BHEL's intimation, in line with BOQ cum Price schedule items and notes and relevant extract of technical specifications.  
**Note:** - Vendor will be informed regarding priority of drawing submission and dispatch as per site requirement after PO placement and vendor has to abide by the same with in contractual delivery period.
16. **Payment terms:** -
- a) **For Main supply:** - As per clause no. 9.1 of General Commercial Terms and conditions of GCC Rev 07.
- b) **For Mandatory Spares:** - As per clause no. 9.1 of General Commercial Terms and conditions of GCC Rev 07.
- c) **For Type Test Charges, Short circuit test\* & Frequency response analysis test after installation at site:** As per clause no. 9.5 of General Commercial Terms and conditions of GCC Rev 07.
- \*In line with note no.-03 of BOQ, "CHARGES FOR CARRYING OUT SHORT CIRCUIT TEST (ON 1 NO. 10 MVA 11/3.45 KV TRANSFORMER) 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 Prices of TRANSFORMER BEING TESTED TO COVER HANDLING COSTS (TRANSPORTATION, INSURANCE ETC.)." These charges shall not be considered for evaluation, however shall be reimbursable to vendor as above.
17. **Liquidated Damages:** - As per clause no. 16 of General Commercial Terms and conditions of GCC Rev 07.
18. **PVC is not applicable. Prices** shall remain firm till completion of contract.
19. The Variation on overall package value due to changes in the scope shall be +/-30% of contract value (Ex- works) as per clause no. 6.0 indicated in the GCTC OF GCC (Rev. 07).

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20. 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 organization contact number and E-mail Id etc. In case the same is found not available, BHEL has the right to reject such document from evaluation.
21. **Freight:** - Bidders to quote the freight in terms of percentage of Total Ex-works price.
22. For 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, can 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 may be uploaded on the website and submit the application for registration. However, registration of suppliers with BHEL-PEM is not mandatory in case of open tender.
23. All corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on BHEL websites only ([www.pem.bhel.com](http://www.pem.bhel.com), [www.bhel.com](http://www.bhel.com) & <https://eprocurebhel.co.in>) under subject tender reference. Bidders are requested to visit our websites from time to time to keep themselves updated. Bidders may go through the Sellers' manual & Help documents provided on E-Procurement Portal website & obtain required Digital Signature Certificate for participating in the subject Tender. For Bidders' convenience, the Helpdesk Nos. of E-Procurement (NIC) Portal is available at website i.e. <https://eprocurebhel.co.in>.
24. If any bidder uploads price bid in the unpriced section (techno-commercial attachment page) of the tender in e-procurement, in that case bidder(s) shall only be responsible for such mistake and any consequences thereof. Hence all bidders are requested to be more careful at the time of uploading the Unpriced and Price Bid for Part-I and Part-II respectively to avoid mismatch.
25. **Integrity Pact (applicable)** :- Integrity pact is applicable for subject package. IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. A panel of Independent External Monitors (IEMs) have been appointed by BHEL with the approval of CVC. The names of the IEMs in panel are as follows:  
I. **IEM-1 details-Shri Arun Chandra Verma, IPS (Retd.),** [acverma1@gmail.com](mailto:acverma1@gmail.com)  
II. **IEM-2 details-Shri Virendra Bahadur Singh, IPS (Retd.),** [vbasinghips@gmail.com](mailto:vbasinghips@gmail.com)  
The IP as enclosed is to be submitted (duly signed by authorized signatory) along with techno-commercial bid. Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this pact would be a preliminary qualification.  
Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the any of the IEMs mentioned above. All correspondence with the IEMs shall be done through email only.  
" No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department officials."
26. Bidders to note that "This item /package/system falls under the list of items defined in para 3 of ministry of finance guideline date 20.09.16 (procurement of items related to public safety, health, critical security operations and Equipments etc.) & hence criteria of prior experience /turnover shall be same for all bidders including start-up /MSME".
27. 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 available at <https://pem.bhel.com/Documents/VendorSection/Vendor/Guidelines.pdf> to take up the inspection REMOTELY.
28. The Bidder declares 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



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cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.

29. In the 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 L-1 bidders. In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s). Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.
30. **Performance Bank Guarantee:** Performance Security amount shall be @5% of the value of contract value (excluding taxes duties & freight). Further, following shall be part of NIT.  
In case any benefit with respect to BG reduction is applicable at later stage for Bhusawal project, then similar benefit shall be passed onto the bidders for subject tender as well.  
"Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till the first bill becomes due, the amount of performance security shall be received as per the terms defined in NIT/contract, from the bills along with due interest.
31. **Prices of Frequency Response Analysis Test after installation at site: -**  
Bidder to ensure that the prices of the Frequency Response Analysis Test after installation at site should be exactly 1% of the Ex-works prices of respective Transformer. In case, it is found in price bid that the same is not exactly 1%, BHEL shall evaluate the offer on the basis of quoted prices, however, during ordering, shall adjust the same as 1% of Ex-works prices of respective Transformer.
32. All other terms and conditions of SCC (Rev 01) of project, NIT & GCC (Rev 07) shall be applicable for the subject package.
33. Bidders who are participating in this tender please note that GeM seller ID is mandatory before placement of order.
34. **M/s KRYFS Power Components Ltd.** is not eligible to quote for subject tender enquiry.
35. Detailed offers are to be uploaded including the following along with the Price schedule as per BHEL format enclosed with NIT: -
- Acceptance of BHEL-PEM GCC Rev-07
  - Acceptance of Special Conditions of Contract (SCC Rev 01) for the project.
  - Technical & Commercial Deviations, if any along with Cost of withdrawal in bidding form
  - Along with your offer, please submit a copy of this letter duly signed & stamped on each page as token of acceptance of terms & instructions conveyed.
  - Un-Priced price format duly filled in 'Quoted' or 'Q' in each column/row in bidding form
  - Filled Format of Certification regarding Local content (annexure –III)
  - Signed Integrity pact

All the above Tender Documents shall automatically become a part of the Order/Contract after its finalisation.  
Thanking You

Yours faithfully,

For and on behalf of BHEL-PEM

RAJENDRA

PRASAD

YADAV

**RAJENDRA PRASAD YADAV**

(Dy.MGR/PG-III/BHEL-PEM)

Digitally signed by RAJENDRA  
PRASAD YADAV  
DN: cn=RAJENDRA PRASAD YADAV,  
o=BHEL, ou=PS-PEM,  
email=rajendra.prasad.yadav@bhel.i  
n, c=IN  
Date: 2022.02.21 16:18:01 +05'30'

Rajendra Prasad Yadav /Dy. MGR/PGIII  
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Power Project Engineering Institute,  
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Regd. Office  
BHEL House Siri Fort  
New Delhi-110049

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**Enclosures:**

1. Technical Specification No. PE-TS-415-302-E001, Rev00
2. Technical PQR
3. SCC Rev 01
4. BOQ - Annexure –I
5. Delivery completion cum Drawings/documents submission Schedule (Annexure –II)
6. Format of Certification reg. Local content (annexure –III)
7. Performa for End customer approval
8. Guidelines for remote inspection.
9. Integrity Pact
10. GCC (Rev. 07)- <https://pem.bhel.com/Documents/GCC/GCCRev07.pdf>

**RAJENDRA  
PRASAD  
YADAV**

Digitally signed by RAJENDRA  
PRASAD YADAV  
DN: cn=RAJENDRA PRASAD  
YADAV, o=BHEL, ou=PS-PEM,  
email=rajendra.prasad.yadav@b  
hel.in, c=IN  
Date: 2022.02.21 16:18:23  
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**PACKAGE-OIL Filled Service Transformer**  
**PROJECT-1 X 660 MW BHUSAWAL TPP**  
**ENQUIRY NO.- PE/PG/BHU/E-6888/2021 Dtd. 21.02.2022**

**Bidder's Name-**

S. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR OIL FILLED SERVICE TRANSFORMERS	DESCRIPTION 1	HSN CODE	Quantity	Unit	Unit Ex- Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex- works Price	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex-works Price & Freight (Rs.)	Total FOR Site Price (Rs.)
<b>(A)</b>	<b>OIL Filled Service Transformer-Main supply</b>											
<b>A1</b>	10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 9.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM) [Refer Note-2]	8504	2	NOS.		0		0		0	0
<b>A2</b>	7500 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 8.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	2	NOS.		0		0		0	0
<b>A3</b>	6300 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 8.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	2	NOS.		0		0		0	0
<b>A4</b>	2000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 6.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	4	NOS.		0		0		0	0
<b>A5</b>	1000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 6.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	2	NOS.		0		0		0	0
<b>A6</b>	630 kVA, 6.6kV/433 V, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 6.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	2	NOS.		0		0		0	0
<b>(B)</b>	<b>10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-Main Supply</b>											
<b>B1</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B2</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 7500 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B3</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 6300 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B4</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 2000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B5</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 1000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B6</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 630 KVA, 6.6KV/433 V, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>(C)</b>	<b>MISC. ITEMS/SCOPE</b>											
<b>C.1</b>	<b>SPECIAL TOOLS AND TACKLES</b> (Bidder to furnish List)	Main Supply	85444920	1	LOT		0		0		0	0
<b>C.2.1</b>	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
<b>C.2.2</b>	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 7500 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
<b>C.2.3</b>	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 6300 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
<b>C.2.4</b>	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 2000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	4	Nos.		0		0		0	0

**PACKAGE-OIL Filled Service Transformer**  
**PROJECT-1 X 660 MW BHUSAWAL TPP**  
**ENQUIRY NO.- PE/PG/BHU/E-6888/2021 Dtd. 21.02.2022**

**Bidder's Name-**

S. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR OIL FILLED SERVICE TRANSFORMERS	DESCRIPTION 1	HSN CODE	Quantity	Unit	Unit Ex- Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex- works Price	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex-works Price & Freight (Rs.)	Total FOR Site Price (Rs.)
C.2.5	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 1000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
C.2.6	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 630 KVA, 6.6/0.433 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
(D)	<b>TYPE TEST (refer Sl no.-9, 10, 11)</b>											
D.1	Dielectric test as per method 2 of IS 2026 part III	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.2	Separate source voltage withstand test for 1 min HV- 28kVrms, LV-10kVrms	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.3	Full wave lightning impulse test on HV terminal at 75 kVp	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.4	Full wave lightning impulse test on LV terminal at 40 kVp	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.5	Switching impulse test on HV terminal at rated 75kVp	Type Test-For FOR 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.6	Repeat no load loss and excitation current measurement after dielectric test at 100% rated voltage and rated frequency	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.7	Determination of transient voltage transfer characteristic	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.8	Measurement of transferred surge on LV winding due to HV lightning impulse	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.9	Measurement of zero-sequence impedance of three- phase transformers	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.10	Measurement of acoustic noise-level	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.11	Measurement of the harmonics in the No-load current	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.12	Vacuum withstand test (full vacuum)	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
(E)	<b>Mandatory Spares- Oil Filled Service Transformer</b>											
E.1.1	HV BUSHING WITH METAL PARTS AND GASKETS 12KV (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	3	SETS		0		0		0	0
E.1.2	LV BUSHING WITH METAL PARTS AND GASKETS 3.6 KV (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	3	SETS		0		0		0	0

**PACKAGE-OIL Filled Service Transformer**  
**PROJECT-1 X 660 MW BHUSAWAL TPP**  
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**Bidder's Name-**

S. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR OIL FILLED SERVICE TRANSFORMERS	DESCRIPTION 1	HSN CODE	Quantity	Unit	Unit Ex- Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex- works Price	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex-works Price & Freight (Rs.)	Total FOR Site Price (Rs.)
<b>E.1.3</b>	Winding temperature indicator (WTI) WITH CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.4</b>	OIL temperature indicator (OTI) WITH CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.5</b>	REMOTE WTI (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	No.		0		0		0	0
<b>E.1.6</b>	REMOTE OTI (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	No.		0		0		0	0
<b>E.1.7</b>	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.8</b>	Magnetic oil gauge (MOG) (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.9</b>	BUCHOLZ RELAY COMPLETE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.10</b>	SET OF GASKETS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.11</b>	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.12</b>	AIR CELL FOR CONSERVATOR (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.13</b>	SET OF TAP CHANGE CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.14</b>	SUDDEN PRESSURE RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.15</b>	LV NEUTRAL BUSHING (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	2	SETS		0		0		0	0
<b>E.1.16</b>	SILICA GEL BREATHING (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.17</b>	COMPLETE CABLE CUM BUS DUCT LV 1 NO. TERMINAL (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.2.1</b>	HV BUSHING WITH METAL PARTS AND GASKETS 12KV (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	3	SETS		0		0		0	0
<b>E.2.2</b>	LV BUSHING WITH METAL PARTS AND GASKETS 3.6 KV (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	3	SETS		0		0		0	0
<b>E.2.3</b>	Winding temperature indicator (WTI) WITH CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.2.4</b>	OIL temperature indicator (OTI) WITH CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.2.5</b>	REMOTE WTI (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	No.		0		0		0	0
<b>E.2.6</b>	REMOTE OTI (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	No.		0		0		0	0
<b>E.2.7</b>	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.2.8</b>	Magnetic oil gauge (MOG) (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	SET		0		0		0	0

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E.2.9	BUCHOLZ RELAY COMPLETE (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.10	SET OF GASKETS (OF EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.11	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.12	AIR CELL FOR CONSERVATOR (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.13	SET OF TAP CHANGE CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.14	SUDDEN PRESSURE RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.15	LV NEUTRAL BUSHING (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	2	SETS		0		0		0	0
E.2.16	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.17	COMPLETE CABLE CUM BUS DUCT LV 1 NO. TERMINAL (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.3.1	HV, LV AND LV NEUTRAL BUSHING (OF EACH TYPE & RATING) FOR 11/3.45 kv, 7500 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.3.2	HV, LV AND LV NEUTRAL BUSHING (OF EACH TYPE & RATING) FOR 11/3.45 kv, 6300 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.3.3	HV, LV AND LV NEUTRAL BUSHING (OF EACH TYPE & RATING) FOR 11/3.45 kv, 1000 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.3.4	HV, LV AND LV NEUTRAL BUSHING (OF EACH TYPE & RATING) FOR 6.6/0.433 kv, 630 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.4.1	WTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.4.2	WTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.4.3	WTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.4.4	WTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 6.6/0.433 kv, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.5.1	TAP CHANGER CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 7500 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.5.2	TAP CHANGER CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 6300 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.5.3	TAP CHANGER CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 1000 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.5.4	TAP CHANGER CONTACTS (FOR EACH TYPE & RATING) FOR 6.6/0.433 kv, 630 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.6.1	MAGNETIC OIL GAUGE / OIL LEVEL INDICATOR WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.6.2	MAGNETIC OIL GAUGE / OIL LEVEL INDICATOR WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.6.3	MAGNETIC OIL GAUGE / OIL LEVEL INDICATOR WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0

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E.6.4	MAGNETIC OIL GAUGE / OIL LEVEL INDICATOR WITH CONTACTS (FOR EACH TYPE & RATING) FOR 6.6/0.433	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.7.1	OTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.7.2	OTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.7.3	OTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.7.4	OTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 Kva	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.8.1	BUCHOLZ RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.8.2	BUCHOLZ RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.8.3	BUCHOLZ RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.8.4	BUCHOLZ RELAY (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.9.1	FLOAT WITH CONTACTS FOR BUCHOLZ REALY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.9.2	FLOAT WITH CONTACTS FOR BUCHOLZ REALY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.9.3	FLOAT WITH CONTACTS FOR BUCHOLZ REALY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.9.4	FLOAT WITH CONTACTS FOR BUCHOLZ REALY (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.10.1	SET OF GASKETS (OTHER THAN THAT WITH BUSHING) OF EACH TYPE & RATING FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.10.2	SET OF GASKETS (OTHER THAN THAT WITH BUSHING) OF EACH TYPE & RATING FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.10.3	SET OF GASKETS (OTHER THAN THAT WITH BUSHING) OF EACH TYPE & RATING FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.10.4	SET OF GASKETS (OTHER THAN THAT WITH BUSHING) OF EACH TYPE & RATING FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.11.1	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.11.2	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.11.3	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.11.4	SET OF VALVES (OF EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.12.1	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 Kva	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.12.2	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.12.3	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0

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E.12.4	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.13.1	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 Kva	MANDATORY SPARES	8504	1	SETS		0		0		0	0
E.13.2	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	SETS		0		0		0	0
E.13.3	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	SETS		0		0		0	0
E.13.4	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	SETS		0		0		0	0
E.14.1	TEMPERATURE INDICATOR / GAUGE FOR 11kV/3.45kV TRANSFORMERS	MANDATORY SPARES	8504	2	NOS.		0		0		0	0
E.14.2	TEMPERATURE SCANNER FOR 11kV/3.45kV TRANSFORMERS	MANDATORY SPARES	8504	2	NOS.		0		0		0	0
( F )	GRAND TOTAL FOR EVALUATION (RS.)(A+B+C+D+E)						0		0		0	0

**NOTES :**

1	BIDDER TO NOTE THAT THE COST OF TRANSFORMER SHALL INCLUDE THE COST OF ROUTINE TEST (MENTIONED AT CLAUSE 5.1 OF ANNEXURE-III, SEC-I OF TECHNICAL SPECIFICATION). ROUTINE TESTS SHALL BE CARRIED OUT ON ALL TRANSFORMERS WITHOUT ANY ADDITIONAL COST. BIDDER SHALL QUOTE ACCORDINGLY. BIDDER TO SUBMIT THE ROUTINE TEST REPORTS FOR APPROVAL.					
2	SPECIAL / TYPE TESTS AS PER IS/IEC AND CLAUSE 5.2 OF ANNEXURE-III, SEC-I OF TECHNICAL SPECIFICATION SHALL BE CONDUCTED ON 1 NO. 10 MVA, 11/3.45 kV TRANSFORMER AT THIRD PARTY LAB/ BIDDER WORKS IN PRESENCE OF BHEL/ CUSTOMER'S REPRESENTATIVE. BIDDER SHALL QUOTE COST OF TYPE TEST(EXCEPT SHORT CIRCUIT TEST DETAILS OF WHICH IS MENTIONED IN SL. NO. 3 BELOW) FOR 1 NO. 10 MVA 11/3.45 kV TRANSFORMER. BIDDER TO SUBMIT THE TYPE TEST REPORTS FOR APPROVAL.					
3	CHARGES FOR CARRYING OUT SHORT CIRCUIT TEST (ON 1 NO. 10 MVA 11/3.45 kV TRANSFORMER) 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	QUANTITY OF 10% EXTRA OIL (CONSIDERED AS 1 LOT FOR EACH RATING AND TOTAL NOS. OF TRANSFORMER OF PARTICULAR RATING MENTIONED UNDER SL. NO. 1 TO 6) SHALL BE SUBJECT TO APPROVAL DURING DETAIL ENGINEERING AS PER QUANTITY OF OIL FINALISED FOR EACH RATING OF TRANSFORMER.					
5	BIDDER SHALL QUOTE THE COST OF 10% EXTRA OIL IN THE LINE ITEMS MENTIONED ABOVE AND <b>NOT</b> TO BE COMBINED/INCLUSIVE WITH COST OF TRANSFORMER.					
6	BIDDER TO CARRY OUT FREQUENCY RESPONSE ANALYSIS TEST (MENTIONED IN ANNEXURE-III, CL. NO. 5.1.6) ON ALL TRANSFORMER AFTER INSTALLATION AT SITE. ANY EQUIPMENT/ INSTRUMENT INCLUDING FREQUENCY RESPONSE ANALYSER FOR TESTING AT SITE SHALL BE ARRANGED BY BIDDER. NO OTHER CHARGES SHALL BE PAYABLE BY BHEL.					
7	BOQ-CUM-PRICE SCHEDULE MAIN TRANSFORMERS (A), EXTRA OIL (B), MISC. ITEMS (C.), TYPE TEST (D) & MANDATORY SPARES (E) AND WILL BE CONSIDERED FOR PRICE EVALUATION PURPOSE.					
8	Bidder to ensure that the prices of the Frequency Response Analysis Test after installation at site should be exactly 1% of the Ex-works prices of respective Transformer. In case, it is found in price bid that the same is not exactly 1%, BHEL shall evaluate the offer on the basis of quoted prices, however, during ordering, shall adjust the same as 1% of Ex-works prices of respective Transformer.					
9	**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.)					
10	IN CASE ANY OF THE TYPE AND SPECIAL TESTS ARE REQUIRED TO BE REPEATED THE SAME SHALL BE CARRIED OUT BY THE BIDDER WITHOUT ANY COMMERCIAL / DELIVERY IMPLICATION TO BHEL.					
11	BIDDER TO QUOTE FOR EACH TEST.					
12	Mandatory spares:- 1 SET CONSISTS OF QUANTITIES REQUIRED FOR 1 COMPLETE RATING OF TRANSFORMER					



ANNEXURE - II									
SCHEDULE OF TECHNICAL AND COMMERCIAL DEVIATION									
PROJECT:- 1 x 660 MW BHUSAWAL TPP									
PACKAGE:- OIL Filled Service Transformer									
TENDER REF NO - PE/PG/BHU/E-6888/2021 dated 21.02.2022									
NAME OF VENDOR:-									
SL NO	VOULME/ SECTION	PAGE NO.	CLAUSE NO.	TECHNICAL SPECIFICATION/ TENDER DOCUMENT	COMPLETE DESCRIPTION OF DEVIATION	COST OF WITHDRAWAL OF DEVIATION	REFERENCE OF PRICE SCHEDULE ON WHICH COST OF WITHDRAWAL OF DEVIATION IS APPLICABLE	NATURE OF COST OF WITHDRAWAL OF DEVIATION (POSITIVE/ NEGATIVE)	REASON FOR QUOTING DEVIATION
<b>TECHNICAL DEVIATIONS</b>									
<b>COMMERCIAL DEVIATIONS</b>									
<b>PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE</b>									
<b>NAME</b>				<b>DESIGNATIONS</b>		<b>SIGN &amp; DATE</b>			
<b>NOTES:</b>									
1. Cost of withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.									
2. All the bidders have to list out all their Technical & Commercial Deviations (if any) in detail in the above format.									
3. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.									
4. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable. In the absence of same, such deviation(s) shall not be considered and offer shall be considered in total compliance to NIT.									
5. Bidder shall furnish price copy of above format along with price bid.									
6. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.									
7. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.									
8. For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VII, 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 withdrawal of deviation shall be taken as NIL.									
9. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be considered.									
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.									
11. Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL.									
12. In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive.									
13. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.									

**ANNEXURE -II**

**DELIVERY COMPLETION SCHEDULE FOR BHUSAWAL- OIL FILLED SERVICE TRANSFORMERS PACKAGE**

**ENQUIRY No. JPE/PG/BHU/E-6888/2021 Dtd. 21.02.2021**

Sl. No.	BHEL Drawing No	Drawing Title	Primary/Secondary	Drg Schedule for Vendors	Delivery completion schedule
1	PE-V0-415-302-E016	1000 KVA TRANSFORMER (11/3.45 KV) GA BUSHING DRG/(HV, LV & NEUTRAL)	Primary	R-0 within five(5) weeks from PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	<p><b>Main Supply:-</b> Within Nine (09) months from date of CAT-1 approval of Primary drawing/documents, subjected to drawing/document submission/re-submission schedule as stipulated, in case of any delay in submission/re-submission of Primary drawing/documents, then same shall be reduced from the given delivery period. Delay in BHEL's comments/approval beyond 18 days shall also be considered for delay analysis.</p> <p><b>Mandatory Spares:-</b> - Four (04) months from the date of BHEL clearance. Separate manufacturing clearance shall be given for mandatory spares.</p> <p><b>Delivery schedule for Frequency response analysis test after installation at site:-</b> - Vendor to depute its service engineer for respective site activity within 15 days from BHEL's intimation, in line with BOQ cum Price schedule items and notes and relevant extract of technical specifications.</p>
2	PE-V0-415-302-E116	2000 KVA TRANSFORMER (11/3.45 KV) GA BUSHING DRG/(HV, LV & NEUTRAL)	Primary		
3	PE-V0-415-302-E216	6300 KVA TRANSFORMER (11/3.45 KV) GA BUSHING DRG/(HV, LV & NEUTRAL)	Primary		
4	PE-V0-415-302-E316	7500 KVA TRANSFORMER (11/3.45 KV) GA BUSHING DRG/(HV, LV & NEUTRAL)	Primary		
5	PE-V0-415-302-E516	630 KVA TRANSFORMER (6.6/0.433 KV) GA BUSHING DRG/(HV, LV & NEUTRAL)	Primary		
6	PE-V0-415-302-E416	10000 KVA TRANSFORMER (11/3.45 KV) GA BUSHING DRG/(HV, LV & NEUTRAL)	Primary		
7	PE-V0-415-302-E011	1000 KVA SERVICE TRANSFORMER (11/3.45 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary		
8	PE-V0-415-302-E111	2000 KVA SERVICE TRANSFORMER (11/3.45 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary		
9	PE-V0-415-302-E211	6300 KVA SERVICE TRANSFORMER (11/3.45 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary		
10	PE-V0-415-302-E311	7500 KVA SERVICE TRANSFORMER (11/3.45 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary		
11	PE-V0-415-302-E511	630 KVA SERVICE TRANSFORMER (6.6/0.433 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary		
12	PE-V0-415-302-E411	10000 KVA SERVICE TRANSFORMER (11/3.45 KV) OUTLINE GENERAL ARRANGEMENT DRAWING (OGA) AND LIST OF FITTINGS/ACCESSORIES	Primary		
13	PE-V0-415-302-E014	1000 KVA TRANSFORMER (11/3.45 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary		
14	PE-V0-415-302-E114	2000 KVA TRANSFORMER (11/3.45 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary		
15	PE-V0-415-302-E214	6300 KVA TRANSFORMER (11/3.45 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary		
16	PE-V0-415-302-E314	7500 KVA TRANSFORMER (11/3.45 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary		
17	PE-V0-415-302-E414	10000 KVA TRANSFORMER (11/3.45 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary		
18	PE-V0-415-302-E514	630 KVA TRANSFORMER (6.6/0.433 KV) HV CABLE BOX & LV BUSDUCT/CABLE TERMINATION ARRANGEMENT DRAWING	Primary		
19	PE-V0-415-302-E013	1000 KVA, 11/3.45 KV TWIN BIDIRECTIONAL ROLLER	Primary		
20	PE-V0-415-302-E113	2000 KVA, 11/3.45 KV TWIN BIDIRECTIONAL ROLLER	Primary		
21	PE-V0-415-302-E213	6300 KVA, 11/3.45 KV TWIN BIDIRECTIONAL ROLLER	Primary		
22	PE-V0-415-302-E313	7500 KVA, 11/3.45 KV TWIN BIDIRECTIONAL ROLLER	Primary		
23	PE-V0-415-302-E413	10000 KVA, 11/3.45 KV TWIN BIDIRECTIONAL ROLLER	Primary		
24	PE-V0-415-302-E513	630 KVA, 6.6/0.433 KV TWIN BIDIRECTIONAL ROLLER	Primary		
25	PE-V0-415-302-E020	1000 KVA SERVICE TRANSFORMER (11/3.45 KV) VALVE SCHEDULE PLATE	Primary		
26	PE-V0-415-302-E120	2000 KVA SERVICE TRANSFORMER (11/3.45 KV) VALVE SCHEDULE PLATE	Primary		
27	PE-V0-415-302-E220	6300 KVA SERVICE TRANSFORMER (11/3.45 KV) VALVE SCHEDULE PLATE	Primary		
28	PE-V0-415-302-E320	7500 KVA SERVICE TRANSFORMER (11/3.45 KV) VALVE SCHEDULE PLATE	Primary		
29	PE-V0-415-302-E420	10000 KVA SERVICE TRANSFORMER (11/3.45 KV) VALVE SCHEDULE PLATE	Primary		
30	PE-V0-415-302-E520	630 KVA SERVICE TRANSFORMER (6.6/0.433 KV) VALVE SCHEDULE PLATE	Primary		
31	PE-V0-415-302-E015	1000 KVA SERVICE TRANSFORMER (11/3.45 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary		
32	PE-V0-415-302-E115	2000 KVA SERVICE TRANSFORMER (11/3.45 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary		
33	PE-V0-415-302-E215	6300 KVA SERVICE TRANSFORMER (11/3.45 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary		
34	PE-V0-415-302-E315	7500 KVA SERVICE TRANSFORMER (11/3.45 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary		
35	PE-V0-415-302-E415	10000 KVA SERVICE TRANSFORMER (11/3.45 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary		
36	PE-V0-415-302-E515	630 KVA SERVICE TRANSFORMER (6.6/0.433 KV) BILINGUAL RATING & DIAGRAM PLATE	Primary		
37	PE-V0-415-302-E017	1000 KVA TRANSFORMER (11/3.45 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary		

Sl. No.	BHEL Drawing No	Drawing Title	Primary/Secondary	Drg Schedule for Vendors	Delivery completion schedule
38	PE-V0-415-302-E117	2000 KVA TRANSFORMER (11/3.45 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary		
39	PE-V0-415-302-E217	6300 KVA TRANSFORMER (11/3.45 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary		
40	PE-V0-415-302-E317	7500 KVA TRANSFORMER (11/3.45 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary		
41	PE-V0-415-302-E417	10000 KVA TRANSFORMER (11/3.45 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary		
42	PE-V0-415-302-E517	630 KVA TRANSFORMER (6.6/0.433 KV) GENERAL ARRANGEMENT AND WIRING DIAGRAM OF MARSHALLING BOX	Primary		
43	PE-V0-415-302-E019	1000 KVA SERVICE TRANSFORMER (11/3.45 KV) TECHNICAL DATA SHEET	Primary		
44	PE-V0-415-302-E119	2000 KVA SERVICE TRANSFORMER (11/3.45 KV) TECHNICAL DATA SHEET	Primary		
45	PE-V0-415-302-E219	6300 KVA SERVICE TRANSFORMER (11/3.45 KV) TECHNICAL DATA SHEET	Primary		
46	PE-V0-415-302-E319	7500 KVA SERVICE TRANSFORMER (11/3.45 KV) TECHNICAL DATA SHEET	Primary		
47	PE-V0-415-302-E419	10000 KVA SERVICE TRANSFORMER (11/3.45 KV) TECHNICAL DATA SHEET	Primary		
48	PE-V0-415-302-E519	630 KVA SERVICE TRANSFORMER (6.6/0.433 KV) TECHNICAL DATA SHEET	Primary	R0 within five(5) weeks from PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	
49	PE-V0-415-302-E901	MQP FOR OIL FILLED SERVICE TRANSFORMERS	Primary		
50	PE-V0-415-302-E021	1000KVA TRANSFORMER (11/3.45 KV) TYPE TEST REPORT (Earlier conducted*)	Secondary		
51	PE-V0-415-302-E121	2000 KVA TRANSFORMER (11/3.45 KV) TYPE TEST REPORT (Earlier conducted*)	Secondary		
52	PE-V0-415-302-E221	6300 KVA TRANSFORMER (11/3.45 KV) TYPE TEST REPORT (Earlier conducted*)	Secondary		
53	PE-V0-415-302-E321	7500 KVA TRANSFORMER (11/3.45 KV) TYPE TEST REPORT (Earlier conducted*)	Secondary	R0 within one(1) week after conduction of type tests & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	
54	PE-V0-415-302-E521	630 KVA TRANSFORMER (6.6/0.433 KV) TYPE TEST REPORT (Earlier conducted*)	Secondary		
55	PE-V0-415-302-E421	10000 KVA TRANSFORMER (11/3.45 KV) TYPE TEST REPORT	Secondary	R-0 within five(5) weeks from PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	
56	PE-V0-415-302-E018	1000 KVA TRANSFORMER (11/3.45 KV) FOUNDATION DRAWING	Secondary		
57	PE-V0-415-302-E118	2000 KVA TRANSFORMER (11/3.45 KV) FOUNDATION DRAWING	Secondary		
58	PE-V0-415-302-E218	6300 KVA TRANSFORMER (11/3.45 KV) FOUNDATION DRAWING	Secondary		
59	PE-V0-415-302-E318	7500 KVA TRANSFORMER (11/3.45 KV) FOUNDATION DRAWING	Secondary		
60	PE-V0-415-302-E418	10000 KVA TRANSFORMER (11/3.45 KV) FOUNDATION DRAWING	Secondary		
61	PE-V0-415-302-E518	630 KVA TRANSFORMER (6.6/0.433 KV) FOUNDATION DRAWING	Secondary	R-0 within five(5) weeks from PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	
62	PE-V0-415-302-E422	DESIGN CALCULATIONS FOR SHORT CIRCUIT CAPABILITY OF 6300, 7500, 2000, 1000 & 630KVA TRANSFORMER	Primary		
63	PE-V0-415-302-E012	1000 KVA, 11/3.45 KV TRANSPORTATION DRG	Secondary		
64	PE-V0-415-302-E112	2000 KVA, 11/3.45 KV TRANSPORTATION DRG	Secondary		
65	PE-V0-415-302-E212	6300 KVA, 11/3.45 KV TRANSPORTATION DRG	Secondary		
66	PE-V0-415-302-E312	7500 KVA, 11/3.45 KV TRANSPORTATION DRG	Secondary		
67	PE-V0-415-302-E412	10000 KVA, 11/3.45 KV TRANSPORTATION DRG	Secondary		
68	PE-V0-415-302-E512	630 KVA, 6.6/0.433 KV TRANSPORTATION DRG	Secondary	Within 30 days of issuance of MDCC	
69	PE-V0-415-302-E902	O&M MANUAL/FQP FOR OIL FILLED SERVICE TRANSFORMERS	Secondary		
70	PE-V0-415-302-E903	BOM (BILL OF MATERIAL) FOR OIL FILLED TRANSFORMERS	Secondary	R-0 within five(5) weeks from PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	

Sl. No.	BHEL Drawing No	Drawing Title	Primary/Secondary	Drg Schedule for Vendors	Delivery completion schedule
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NOTE:- Following shall be made part of NIT.

a. The end period specified is for completion of the deliveries. Deliveries to start progressively so as to meet the completion schedule.

b. The delivery conditions specified are for contractual LD purposes, however BHEL may ask for early deliveries without any compensation thereof.

c. Non-applicable drawings shall be decided during execution of the package.

d. Wherever schedule of drawings/documents submission / re-submission is stipulated in the Technical Specifications, same shall be superseded by delivery specified in NIT.

e. Drawing/ document nos. provided are tentative & may change, there shall be no commercial/ delivery implication to BHEL on this account.

f. Vendor shall submit the dates for drawing/document submission/BHEL comments/resubmission after approval of documents

g. **Vendor will be informed regarding priority of drawing submission and dispatch as per site requirement after PO placement and vendor has to abide by the same with in contractual delivery period.**

Note (\*): as per clause no. 5.2 and 10 of Annexure-III of Technical specification(Page 21, 26 of 91).Conductance of Type Tests for 10 MVA (including any Special Test as per specification) & other rating (if required) and Type Test report approval shall be with in overall delivery period

**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.

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)

authorized signatory  
of company

**An undertaking regarding Model Clauses (To be provided alongwith bid)**

Reference:

**Enquiry no:** PE/PG/BHU/E-6888/2021, Dated 21.02.2022

**Item:** OIL FILLED SERVICE TRANSFORMER

**Project:** 1 X 660 MW BHUSAWAL TPP

**TO WHOM SO IT MAY CONCERN**

This is with reference to Ministry of Finance circular dated 23.07.20 reg. restriction under rule 144 (xi) of GFR.

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that M/s .....is not from such a country and is eligible to be considered against Enquiry no: ....."

Sign & Signature


Date: 21.02.2022

Place:

<b>Maharashtra State Power Generation Company Limited</b>			
<b>Bhusawal Project (1x660MW)</b>			
<b>Proforma of Vendor Approval</b>			
Sr. No.	Information/ Particulars required	Details furnished along with documents thereof	Remarks if any
1	Name of System /Package/Item:		
2	Name of agency on whom order for the main work is placed		
3	Approval for (Name of construction material)		
4	Name of the vendors specified in contract document for this material		
5	Name of the proposed Sub Contractor(Vendor)		
6	Reasons for asking new vendor		
7	Details of supporting documents in lieu of above reasons		
8	Specific requirement of material in terms of dia, size, quantity etc.		
9	When the material is required & for which structure		
10	Whether vendor is Partnership/ Pvt./Public Ltd. Company		
11	Particular of registration with Government		
	i) GST registration No.		
	ii) Company registration No. & Incorporation Certificate		
	iii) PF & ESIC Certificate.		
	iv) Pan No.		
12	Address of vendor's factory		
13	Contact No. of vendor's representative for additional information		
14	Production Business Area		
16	Average annual turnover for last three years as per CA's Certificate		
17	Name of Companies where the vendor is registered		
18	Details of orders completed last 3 years (Quantity & amount)		
19	Details of orders in hand (Quantity & amount)		
20	Maximum value & quantity of work executed during last 3 years		
21	Name of the reputed, well known clients to whom the vendor has supplied the material		
22	End users Performance Certificate (Name & documents) along with the relevant PO.		
23	Any additional information		
24	Recommendation		

M/s BHEL

Sub-Contractor

	<p align="center"><b>PROJECT ENGINEERING MANAGEMENT</b></p>	<p align="center"><b>GENERAL CONDITIONS OF CONTRACT (GCC)</b></p> <p align="center"><b>Revision no. 07</b></p>	<p align="center"><b>ANNEXURES</b></p>
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## **ANNEXURE– VIII**

### **INTEGRITY PACT**

#### **Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at “BHEL House”, Siri Fort, New Delhi – 110049 (India) hereinafter referred to as “The Principal”, which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

#### **and**

\_\_\_\_\_, (description of the party along with address), hereinafter referred to as “The Bidder/ Contractor” which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

#### **Preamble**

The Principal intends to award, under laid-down organizational procedures, contract/s for

\_\_\_\_\_. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

#### **Section 1 – Commitments of the Principal**

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.


1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

#### **Section 2 – Commitments of the Bidder(s)/ Contractor(s)**

2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits



	<p align="center"><b>PROJECT ENGINEERING MANAGEMENT</b></p>	<p align="center"><b>GENERAL CONDITIONS OF CONTRACT (GCC)</b></p> <p align="center"><b>Revision no. 07</b></p>	<p align="center"><b>ANNEXURES</b></p>
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himself to observe the following principles during his participation in the tender process and during the contract execution.

2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. 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.

2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and will await their decision in the matter.

### **Section 3 – Disqualification from tender process & exclusion from future contracts**

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors". framed by the Principal.


### **Section 4 – Compensation for Damages**

4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/Bid Security.

4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

### **Section 5 – Previous Transgression**

5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

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5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

#### **Section 6 – Equal treatment of all Bidders/ Contractors/ Sub-contractors**

6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain

responsible for any default by his sub-contractors.

6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

#### **Section 7 – Criminal Charges against violating Bidders / Contractors / Sub-contractors**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

#### **Section 8 –Independent External Monitor(s)**

8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.


8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non-disclosure agreement.

8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.

8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.

8.7 The IEMs would examine all complaints received by them and give their recommendations! views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious

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irregularities requiring legal! administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.

8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.

8.9 IEM should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the organization should be looked into by the CVO of the concerned organization.

8.10 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code! Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.

8.12 The word 'Monitor' would include both singular and plural.

#### Section 9 – Pact Duration

9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty! guarantee etc. should be outside the purview of IEMs.

9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

#### Section 10 – Other Provisions

10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

10.5 Only those bidders/ contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

**RAJENDRA**

**PRASAD YADAV**

For & On behalf of the Principal

(Office Seal)

Digitally signed by RAJENDRA PRASAD YADAV  
DN: c=IN, o=BHARAT HEAVY ELECTRICALS LIMITED,  
ou=BHEL / PS-PEM- Noida, postalCode=201301, st=Uttar  
Pradesh,  
serialNumber=5bc96556257e006bb08bd76eb8182251d5  
Date: 2021.07.19 12:13:36 +05'30'

For & On behalf of the Bidder/ Contractor

(Office Seal)

Place-----

Date-----

Witness: \_\_\_\_\_

(Name & Address) \_\_\_\_\_

Witness: \_\_\_\_\_

(Name & Address) \_\_\_\_\_

## **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.