

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	14-03-2025 17:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	14-03-2025 17:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	120 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Power
Department Name/विभाग का नाम	Na
Organisation Name/संगठन का नाम	N/a
Office Name/कार्यालय का नाम	Rangit Power Station
क्रेता ईमेल/Buyer Email	aparamanik@nhpc.nic.in
Total Quantity/कुल मात्रा	2
Item Category/मद केटेगरी	Distribution Transformer 630 kVA, 11/0.415 kV, 50 Hz, 3-Phase, Outdoor Type Dyn-11
GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS	Distribution Transformer 630 kVA, 11/0.415 kV, 50 Hz, 3-Phase, Outdoor Type Dyn-11
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Distribution Transformer, 3 Phase, 11 kV > 200 KVA up to and Including 2500 KVA, Distribution Transformer, 1 Phase, Up to and including 100 kVA ISI marked to IS 1180 (Part 1), Distribution Transformer, 3 Phase, 33 KV, > 200 KVA Up to and including 2500 KVA
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> Distribution Transformer, 3 Phase, 11 kV > 200 KVA up to and Including 2500 KVA
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	21 Lakh (s)
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No

Bid Details/बिड विवरण	
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	No
Past Performance/विगत प्रदर्शन	80 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	5 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Estimated Bid Value/अनुमानित बिड मूल्य	4216720
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Financial Document Required/वित्तीय दस्तावेज़ की आवश्यकता है।	Yes
Arbitration Clause	No
Mediation Clause	No

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	84334

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%)/ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months)/ईपीबीजी की अपेक्षित अवधि (महीने).	15

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service

Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

NHPC Limited
NHPC Limited, NHPC OFFICE COMPLEX, SECTOR -33, FARIDABAD (HARYANA) - 121003
(Nhpc Limited)

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

2. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

3. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are

advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

4. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

5. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Distribution Transformer 630 KVA, 11/0.415 KV, 50 Hz, 3-Phase, Outdoor Type Dyn-11 (2 set)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	Download
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Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Mukesh Kumar Madhukar	737111,Rangit Power Station, Rangit Nagar South Sikkim PS Hingdam	2	90

Buyer added Bid Specific Additional Scope of Work

S.No.क्र.सं.	Document Title	Description	Applicable/रिवर्स प्रभार के अनुसार जीएसटी i.r.o. Items
1	Technical Specifications View	Technical Specifications	Distribution Transformer 630 KVA, 11/0.415 KV, 50 Hz, 3-Phase, Outdoor Type Dyn-11(2)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 % of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$, subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

2. Generic

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

3. Generic

Buyer Organization specific Integrity Pact shall have to be complied by all bidders. Bidders shall have to upload scanned copy of signed integrity pact as per Buyer organizations policy along with bid. [Click here to view the file](#)

4. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

Section-II : Terms and Conditions of Contract (T&C)

1.0 Scope of Supply: “Purchase of Distribution Transformer 630 kVA, 11/0.415 kV, 50 Hz, 3-Phase, Outdoor Type Dyn11 at Rangit Power House”

2.0 Prices and Taxes & Duties:

2.1 Prices shall be Firm and on **F.O.R** destination basis i.e. at “**Central Store, Sagbari, West Sikkim**”. (**This is most essential**) inclusive of charges for packing, handling, forwarding, transportation and all applicable taxes & duties, including those assessed on the Employer.

Further, the contract unit rates shall also be after taking into account the input tax credit and other benefits.

2.2 Taxes, duties and levies, as applicable twenty eight (28) days prior to deadline for submission of bids (including on transportation), shall be mentioned in Price Bid i.e. Schedule of Quantities & Prices (Section-III).

- 2.3 All taxes & duties mentioned in the Price Bid as per clause 2.2 above shall be paid/ reimbursed against proper invoice as per rules/~~documenta~~~~ry evidence~~ and other relevant document, if any and restricted to the total amount of Taxes & Duties in Price Bid subject to clause 2.4 below. No other taxes and duties shall be payable / reimbursable by NHPC. TDS wherever statutorily required under any Tax Act/ Rule shall be deducted and deposited and necessary certificate will be provided by the Employer.
- 2.4 Statutory variation, in Taxes and Duties or levy of any new Tax after 28 (Twenty Eight) days prior to deadline for submission of bid will be adjusted/reimbursed against production of documentary evidence.
- 2.5 Invoice and other documents submitted by contractor for payment under interim payment certificate / final payment certificate, or any other payment under the contract shall be in accordance with the GST law. The contractor shall furnish a certificate along with interim payment certificate / final payment certificate that GST payable by him has been deposited / will be deposited to the Govt. Treasury.
- 2.6 The GSTIN along with relevant details for „*[Name of Project / Unit]*“, has been indicated below for your ready reference.

Name of Project/Unit	:Rangit Power Station
Address of Principal place of business/ <i>ingtham</i>	: <i>Teesta-V Power Station,S</i>
Additional place of business	

State : SIKKIM

State Code :11

GSTIN :11AAACN0149C1ZC

3.0 Transit Insurance:

Material shall be insured under Open Marine Transit Insurance **Policy No. 03 19002124P106018767 valid from 20.07.2024 to 19.07.2025** with M/s United India Insurance Company Limited (UIICL), 116/136, Bharat Bhawan, Hill Cart Road (Sevoke More), Siliguri, Darjeeling, West Bengal-734401. Photocopy of invoice and dispatch instruction should invariably be sent to the Insurance Co. through email: deeplama@uiic.co.in.

After the date of expiry of the above transit Insurance Policy supplier is required to get new transit insurance policy no. from Consignee by sending email to store-rangit@nhpc.nic.in .

If the supplier fails to provide the dispatch particulars to Rangit Power Station immediately after dispatch, then the risk and the associated cost during transportation get transferred to supplier and the supplier should make good any loss prior to receipt of goods in Rangit Stores Division.

3.0 Terms of Payment:

100% payment of total contract price including taxes & duties and freight shall be released upon satisfactory inspection and receipt of the material at Central Stores of the Rangit Power Station and upon production of following documents:

Detail of Documents:

- i) Evidence of despatch (GR/ LR etc.)
- ii) Invoice in Triplicate alongwith detailed packing list.
- iii) Inspection Report/ Despatch Instruction, Test Certificates
- iv) Insurance Intimation/ Cover (if any)
- v) Warrantee Certificate.

Other than normal payment through NEFT/RTGS directly from NHPC Ltd, the MSME Vendors has an option to avail the TReDS facility. NHPC has registered itself on TReDS Platform with M/s A. TREDIS Limited, CIN - U74999MH2016PLC281452, Registration no: (Account no.): 1000005783, Communication address: A TREDIS Ltd, Ashar IT Park, 11th Floor , Road No.: 16Z, Wagle, Industrial Estate, Thane (West) - 400604. The TReDS facilitates financing of invoices of MSMEs by the way of discounting by financiers. MSMEs can upload the invoices in the system and NHPC Ltd. can accept the invoices in the system. Upon the NHPC's acceptance, the Banks/NBFCs can discount the invoices and can release the payment directly to the MSME. In this regard; MSME vendors can refer to RBI guidelines available on website of RBI.

In case of MSE:

All the payments for the supplies and/or services rendered by MSEs (Micro & Small Enterprises) Supplier/ Contractor under the Contract shall be released within forty five (45) days from the day of acceptance*.

In case, payment are not released as mentioned above, NHPC shall pay the principal amount plus compound interest with monthly rests from the date of immediately following the date agreed upon @ three times of bank rates as notified by Reserve Bank of India from time to time.

*** Day of Acceptance means** - day of the actual delivery of goods or the rendering of services; where any objection is made in writing by the bu

yer regarding acceptance of goods or services within fifteen (15) days from the date of delivery of the goods or the rendering of services, the day on which such objection is removed by the Supplier.

In case of non-MSE:

All the payments for the supplies ~~and/or services~~ rendered by non-MSEs (non-Micro & Small Enterprises) Supplier/ Contractor under the Contract shall be released within forty five (45) days from the receipt of invoice/ bills from the Contractor/ Supplier complete in all respect.

In case, payment are not released as mentioned above, NHPC shall pay the principal amount plus simple interest from the date immediately following the date agreed upon @ 8% (eight percent) per annum.

5.0 Delivery/ Completion Period: The supply, installation, testing and commissioning of items/equipments shall be completed within **3 Months (90 days)** from the date of issue of supply order. Time taken for drawings approval, if any shall be excluded from above mention completion period of **90 days**.

6.0 Liquidated Damages: If the Supplier fails to attain completion of the supply of the material (including installation, testing and commissioning of items /equipments) or any part thereof within the prescribed time for completion under clause 5.0 or any extension thereof (due to delays not attributable to the Supplier), the Supplier shall pay to the Purchaser liquidated damages equal to the amount computed @ 1/2 (half) percent per week or part thereof of Contract Price. The aggregate amount of such Liquidated damages shall in no case exceed 10% of the Contract Price. However cost compensation for any time extension shall not be paid.

~~Any GST liability on account of Liquidated damages shall be borne by the contractor~~

7.0 Performance Guarantee: In case of a P.O./L.O.A., exceeding Rs. 5 (five) lakhs, Within 28 days of receipt of Supply Order, the Supplier shall furnish to the Engineer-in-Charge a Performance Guarantee in the form of Demand Draft/ Bank Guarantee from an Indian Nationalized Bank or any Scheduled Bank in India as per the format appended as **Annexure-A** herewith for an amount equal to **(5) Five percent** of the contract price by way of guarantee valid till three months beyond the warranty period as mentioned in the Supply Order for the due and faithful performance of the contract along with the other terms and conditions agreed to.

The Performance Guarantee shall be released after successful completion of the warranty period. The Performance Guarantee amount will not earn any interest for the whatsoever period detained by NHPC.

Contractor shall communicate the following bank details to the issuing Bank for online confirmation of Bank Guarantee to be submitted in term

s of this clause:

1. Name of Beneficiary : NHPC limited, Rangit Power Station, Rangit Nagar, South Sikkim.
2. Account No.: 11893483534
3. IFSC Code: SBIN0009808
4. Address of the Bank: State Bank of India, Rangit Nagar, Hingdam, South Sikkim

8.0 Warrantee: The equipment/ items shall be warranted against poor quality or workmanship of material or manufacturing defects for a minimum period of **12 months** commencing upon the setting to work of item/ plant or 18 months from the date of dispatch whichever is earlier. During the Warrantee period the Supplier shall repair/replace the defected items free of cost and no conveyance or any other charges shall be paid. If any defect is not remedied within a reasonable time, the Purchaser may proceed to do the work at the Supplier's risk and expense, but without prejudice to other rights, which the Purchaser may have against the Supplier in respect of such defects.

9.0 Inspection: Inspection shall be carried out by Engineer-in-charge or his Authorized representative at the works/premises of the OEM/bidder OR at any NABL Accredited testing laboratory (if required) before dispatch of material as per approved QAP. At least 15 days' advance/prior intimation to be given by Supplier to Engineer-InCharge for deputing its representative to carry out inspection. Necessary assistance for conducting the inspection shall be provided by the Supplier free of cost and detailed test reports shall be submitted to NHPC.

The Materials/ equipment's/ items shall only be dispatched after issue of material dispatch clearance certificate (MDCC).

10.0 General: The Purchaser reserves to itself the right to take over the part or full contract from the Supplier after the award of the Contract or during the execution of Contract without assigning any reason.

In Case of any discrepancy between Terms & conditions & SCC, the Clause in SCC will prevail.

11.0 Engineer-In-Charge: Gr. Sr. Manager/HOD of Power House Electrical Maintenance Division, Rangit Power Station, NHPC LTD shall be Engineer-In-Charge of the aforesaid Contract.

12.0 Consignee: Sr. Manager/HOD, (Stores), Rangit Power Station, NHPC Ltd., Distt- South Sikkim, Sikkim-737111.

Further, all correspondence will be made with consignee as detailed below:

Group Sr. Manager (E) - Stores

NHPC LIMITED

RANGIT POWER STATION

DIST- SOUTH SIKKIM

SIKKIM, PIN- 737111

E-mail- store-rangit@nhpc.nic.in

13.0 Paying Authority: Sr. Manager (Finance)/HOD, Rangit Power Station, NHPC Ltd., Distt- South Sikkim, Sikkim-737111.

14.0 Court of Competent Jurisdiction

Any action taken or proceedings initiated on any of the terms of this Agreement shall be only in the court of competent jurisdiction under the local Competent Court of this Power Station area at **Namchi, S. Sikkim.**

15.0 Technical Specifications:

TECHNICAL SPECIFICATIONS of 630 KVA OIL FILLED TRANSFORMER

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Two (02) no. three phase, 630 KVA, 11/ 0.415 KV, oil filled transformer complete with all necessary accessories such as off-circuit tap changer, instrumentation, fittings etc.

General Technical specifications of 630 KVA oil filled transformer attached at Annexure-II.

1. Layout & General Arrangement:

Rangit Power Station is located in State of Sikkim having Installed Capacity of 60 MW (3X20 MW). The Power Station is located in the district South Sikkim. The Power Station site is 120 Km (approx.) from Siliguri.

The environmental conditions at Power House site under which equipment is required to operate satisfactorily are as follows:

- Average ambient air temperature : (+) 0 °C to (+) 35 °C
- Maximum ambient air temperature: (+) 38 °C
- Maximum Relative Humidity: 90%
- Altitude above MSL: 501 Mtr

2. Current ratings and short circuit capabilities:

The transformer shall be designed to be capable of withstanding without damage all stresses by maximum symmetrical short circuit (peak) currents in the connected system as per relevant standard IS 1180 & IS 2026 or equivalent.

The manufacturer along has to submit type test reports **(including dynamic a**

bility to withstand short circuit test) from NABL Accredited laboratory for the type and design of the transformer offered **of same or higher KVA rating with 11kV voltage class.**

3. Standards:

The equipment shall be designed, built and tested to the latest revisions of IS 1180 & IS 2026 or equivalent. In the event of other standards being applicable they will be compared for specific requirement and approved during detailed engineering.

The design, manufacture and performance of the equipment shall comply with all currently applicable statutes, regulations and safety codes.

4. Core:

The cores shall be constructed from Cold Rolled Non Ageing Grain Oriented Silicon Steel Laminations. Adequate lifting lugs shall be provided to enable the core and windings to be lifted. Adequate provision shall be made to prevent movement of the core and winding relative to the tank during transport and installation or while in service. The supporting framework of the cores shall be so designed as to avoid the presence of pockets, which would prevent complete emptying of the tank through the drain valve, or cause trapping of air during filling.

5. Winding:

The winding shall be designed to withstand the highest system voltage continuously. The insulation of transformer windings and connection shall be free from insulating composition liable to soften, ooze out, shrink or collapse and be non-catalytic and chemically inactive to transformer oil during service. The coil clamping arrangement and the finished dimensions of any oil ducts shall be such as will not impede the free circulation of oil through the ducts. The edges of copper conductor shall be smooth so as to ensure that the vibrations do not damage the paper wrapped leading to a fault.

6. Bushing:

The HV winding of transformer shall terminate on porcelain type/epoxy bushings. Current transformer, where required, shall be provided and the bushings shall be independently supported to ensure secure removal of bushings without disturbing the current transformer secondary terminals and connections. The bushing shall be housed in HV & LV Cable boxes.

7. Tank:

The transformer tank and cover shall be fabricated from good commercial grade low carbon steel. The tank and the cover shall be tank type and of bolted construction. All joints, which may have to be opened from time to time in the course of operation, shall be designed to permit their being made oil-tight during reassembly easily. The tank shall be reinforced by stiffeners of structural steel for general rigidity. The tank shall have sufficient strength to withstand, without permanent distortion, during

- i. Filling under vacuum,
- ii. Short circuit forces,
- iii. Mechanical shocks during transportation in fully assembled and in oil filled condition.

At least one manhole with bolted cover shall be provided on the tank cover for

inspection and connection and manhole shall be of sufficient size to afford easy access to the lower end of the bushings, core and coil.

All bolted connections to the tank shall be fitted with suitable oil tight gaskets.

The tank of transformer shall be designed so as to allow complete transformer with all accessories and filled with oil, to be lifted by jacks and local movement in transformer area, without overstraining any joints and without causing subsequent leakage of oil.

The transformer tank shall be equipped with at least the following valves of appropriate size with standard screw connections for external piping:

- i. One upper oil filling valve (inlet) with vacuum attachment,
- ii. One drain valve(outlet) for complete drainage of the tank with padlocking arrangement,
- iii. One filter valve shall be located at the top of the tank. The opening of this valve shall be baffled to prevent aeration of the oil and shall have padlock arrangement,
- iv. One filter valve shall be located near the bottom of the tank,
- v. Two oil sampling valves, one at top and one at bottom of main tank,

All bolts and nuts used in connection with the tank and fittings shall be electro-galvanized. As far as possible the transformer tank and its accessories shall be designed without pockets where gas may collect. Where pockets cannot be avoided, pipes shall be provided to vent the gas off.

8. Conservator vessel, oil gauge and breather:

A conservator complete with drain valve shall be provided, having a capacity to meet the requirement for expansion of the total cold oil volume in the transformer and cooling equipment from the minimum ambient temperature to 105 deg C.

The conservator shall have two filter valves one at the bottom and other at the top on the opposite end. The Conservator shall be provided with oil level indication arrangement easily observed from a distance.

Each conservator vessel shall be fitted with two breather in which silica gel is the de-hydrating agent and designed so that:

- a) The passage of air shall be such that it is first filtered through oil bath and then shall pass through silica gel with 100% redundancy through selector valves.
- b) The external atmosphere is not continuously in contact with the silica gel.
- c) The moisture absorption indicated by a change in colour of tinted crystals can be easily observed from distance.
- d) All breathers shall be mounted at safe height above ground level.

9. Pressure relief device:

The suitable pressure relief device, specifically designed for transformer protection, shall be provided for protection from internal overpressure. The no. of devices shall be worked out according to the volume of oil.

10. Terminations:

The windings shall be connected in delta on the HV side (primary) and in star on the LV side (secondary) with neutral brought out to an insulated terminal for connection with the existing bus. The connections shall be made in accordance to the vector symbol Dyn11. The vector group shall be marked on the diagram and rating plate also.

11. Internal Earthing arrangement:

All metal parts of the Transformer with the exception of the individual core laminations, core associated damping plates shall be maintained at some fixed potential and core should be earthed at two positions.

12. Tap Changing Arrangement:

Off circuit tap changing link shall be provided with total tapping range of +5% to -10% in steps of 2.5%. The tapplings shall be on high voltage side. The transformer shall be capable of delivering its rated output at any tap position without damage. The Tap link shall be located in a convenient position so that it can be operated/changed from ground level. The link connection should be properly marked. The same should also be mentioned in Rating & Diagram plate.

13. Terminal Rating Plate:

The transformer shall be fitted with a terminal rating plate. This shall be engraved metal plate giving clearly the connections for the transformer, the terminal markings, and all other information as per relevant standards IS 1180 along with guaranteed values of No Load and Full Load Losses, purchase order no., altitude etc.

14. Temperature Rise:

The temperature rise of the transformer above the cooling oil temperature when tested at rated current and rated voltage shall not exceed the limit indicated in IS 1180 part-1:2014.

15. Special Term: The manufacturer shall ensure that the transformer shall be used for altitude of above 501 m. Hence the de-rating factor due to altitude as per IS or as per equivalent standard shall be considered during manufacturing. The evidence for the same (in the form of certificate) shall also be provided by the manufacturer.

16. Fitments:

The fitments shall comprise the following:

- a) HV and LV bushings with terminations.
- b) HV Cable box & LV Cable Box
- c) Rating, terminal marking and danger plates.
- d) Earthing terminals (2 or more).
- e) Oil level indicator and Magnetic Oil Level Gauge.
- f) Oil drain valve,
- g) Two oil sampling valves, one at top and one at bottom of main tank.
- h) One upper filling valve and filter valve at top & bottom.
- i) Thermometer pocket with thermometer for oil and winding temperature measurement.
- j) Oil Temperature & Winding Temperature indicator.
- k) Buchholz relay
- l) Four nos. Bi-directional rollers with stopper arrangement.
- m) Terminal box/Marshalling box with heater for auxiliary wiring.
- n) Off circuit tap link.
- o) Pressure relief device
- p) Inspection Hole

17. Drawings and documents:

The manufacturer / supplier have to submit the detailed Outline General Arrangement (OGA) including foundation drawings, LV & HV arrangement, Electrical Drawings and Technical data sheet after placement of supply order to EIC for approval before start of manufacturing process of transformer. However, before submitting the drawings, the manufacturer / supplier shall visit the site at their own cost for exact measurements i.e. to gather the details of transformer like dimensions and other accessories etc., after the placement of order if required. The existing arrangement of the transformer and the bus bar within the enclosure is enclosed for reference.

18. Quality Assurance Plan:

The manufacturer / supplier shall submit a QAP to the EIC for approval after placement of the purchase order. Manufacturer / supplier shall further follow the quality assurance and testing requirements specified in the approved QAP.

19. Tests:

(a) Type Tests:

The manufacturer / supplier shall furnish the type tests reports of similar transformer carried out by them as per IS: 1180 & IS: 2026 along with their bid.

(b) Routine Tests:

The transformer shall be subjected to at least the following routine tests & special tests at the OEM works at their own cost as per IS: 1180 & IS: 2026 or equivalent standard.

- Measurement of winding resistance
- Insulation resistance & PI
- Measurement of voltage ratio at all taps and check of voltage vector relationship.
- Polarity test.
- Measurement of Impedance voltage (at principal tap), short circuit impedance and load loss at rated current.
- Magnetic Balance Test.
- HV tests on auxiliary and control wiring.
- Measurement of No-load losses and No-load current.
- Induced over voltage withstand.
- Separate source voltages withstand.
- Noise Level Test.
- Oil leakage test.
- Pressure test.

The tolerance on the above performance test values shall be as specified in IS-2026 or equivalent standard. The manufacturer shall furnish the test reports/test certificates of the tests conducted on the transformer. The manufacturer should have in house testing facility and trained testing personnel for conducting the above mentioned tests.

The test certificates shall give the actual measurements and also the derived values for:-

- 1) Losses (design calculation for both No Load losses and Full Load losses shall be provided).
- 2) Impedance Voltage.
- 3) Efficiency at 50%, 75% and full load at unity and 0.8 P.f. lagging at 75 degrees Celsius.
- 4) Regulation at unity and 0.8 p.f. lagging.

(ANNEXURE-II)

GENERAL TECHNICAL SPECIFICATION FOR 630 KVA, 11/0.415 KV,3-Phase OIL FILLED TRANSFORMER				
SL NO	DESCRIPTION	UNIT	PARAMETER VALUE/TYPE	REMARKS
	General			
1.0	General Description & Quantity		Oil filled transformer	

2.0	Reference Standard		IS 2026 & IS 1180 or equivalent	
3.0	Installation		Outdoor	
4.0	Duty		Continuous	
5.0	Application		Distribution for auxiliary systems	
6.0	Altitude of installation	Mtr	Above 501	
	Main Data			
7.0	Number of Phases	No	3	
8.0	Nominal continuous three phase power rating	KVA	630	
9.0	No Load Voltage rating			
9.1	High Voltage at Principal Tap	KV	11	
9.2	Low Voltage	KV	0.415	
10.0	Current rating at principal tap			
10.1	HV winding	Amp	33.07	
10.2	LV winding	Amp	876.49	
11	Rated frequency	Hz	50	
12.0	Tapping			
12.1	Type		Off circuit tap link	
12.2	Range – steps x % variation		+5% to -10% in steps of 2.5%	
12.3	Taps provided on HV winding (Yes/No)		Yes	
13.0	Vector Group reference		Dyn11	
14.0	Type of cooling		Oil Natural Air Natural (ONAN)	
15.0	Maximum ambient temperature	°C	40	

16.0	Lightning impulse withstand voltage for HV winding.	KVP	75	
17.0	Short duration separate source power frequency withstand voltage, 1 min			
17.1	HV Winding	KV rms	28	
17.2	LV winding	KV rms	03	
18.0	Percentage impedance at rated power, referred to 75°C and on principal tapping	%	4.5	Subjected to I S Tolerance
19.0	Type of winding connection			
19.1	HV winding		Delta	
19.2	LV winding		Star with neutral	
20	Protection class of Transformer		As per IEC/IS	
21.0	Core			
21.1	Type - Core or Shell		Core	
21.2	Core material		CRGO laminations	
22.0	Winding			
22.1	No of Winding		02(Two)	
22.2	Material of Coils/Winding		Electrolytic grade copper	
22.3	Temperature Class		A	
23.0	Maximum sound pressure level (according to IEC 551)	dB	As per NEMA-TR1	
24.0	Type of Earthing		Solid earthing	
25.0	Max Total Losses at 50 % and 100% load		As per IS 1180 Part I : 2014	

SPECIAL CONDITIONS OF CONTRACT

These special conditions of contract shall be read and construed, along with the general conditions of contract for work of **“Distribution Transformer 630 kVA, 11/0.415 kV, 50 Hz, 3-Phase, Outdoor Type Dyn11 for Rangit Power Station”** annexed hereto, but in case of any conflict or inconsistency between these Special Conditions and annexed General Conditions of Contract, provisions of Special Conditions contained herein shall prevail.

- 1. Transportation & Packing :** Transportation of material from firm's premises/works to Central Store, Rangit Power Station, Sagbari, Sikkim shall be arranged by the supplier/firm. The contractor shall be responsible for all the packing for transportation at site. All the equipment, material etc. shall be packed to transport the items safely in hilly terrain and climatic condition.
- 2. Delivery period:** Time is the essence of the contract. The total completion period for submission & approval of drawings, design, manufacture and supply of material at Rangit Power Station shall be as follows

1	The contractor shall submit the drawings for approval of owner within 30 days from date of issue of LOA.
2	Total delivery period for Supply of material at Rangit Power Station within 90 days from the date of issue of Letter of Award.

Any delay on part of NHPC shall be excluded from completion period.

- 3. Pre-dispatch Inspection & Dispatch Clearance:** Inspection shall be carried out at the works/premises of the OEM/bidder OR at any NABL Accredited testing laboratory (if required) before dispatch of material as per approved QAP. At least 15 days' advance/prior intimation to be given by Supplier to Engineer-In-Charge for deputing its representative to carry out inspection. Necessary assistance for conducting the inspection shall be provided by the Supplier free of cost and detailed test reports shall be submitted to NHPC.

The Materials/ equipment's/ items shall only be dispatched after issue of material dispatch clearance certificate (MDCC).

- 4. Technical Specifications:** The supplier shall enclose the Guaranteed Technical Particulars of the offered material along with their bid.
- 5. Test Certificates/Reports:** The type test reports shall be submitted by the firm along with their bid. The supplier shall furnish to the Inspector Manufacturer's test reports/certificates in respect of the supplied items as per the requirement of QAP, at the time of inspection, mentioning them to have been satisfactorily tested at their premises OR at any NABL Accredited testing laboratory (if required) and found in confirmation with technical specifications, relevant standards & Quality Assurance plan, as mentioned in order after completion of all tests.

6. Similar Category Equipment / System / Products:

Similar Category Equipment / System / Products shall mean the following:

“Supply of 630 KVA and 11/0.415 kV or higher rating oil filled Distribution Transformer”

5. Past Project Experience

Proof for Past Experience and Project Experience clause: For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria: a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed. b. Execution certificate by client with contract value. c. Any other document in support of contract execution like Third Party Inspection release note, etc. **Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria: a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed. b. Execution certificate by client with contract value. c. Any other document in support of contract execution like Third Party Inspection release note, etc.

6. Forms of EMD and PBG

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

NHPC Limited
payable at
SBI, Rangit Nagar (Branch Code-9808), Hingdam

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

7. Forms of EMD and PBG

Bidders can also submit the EMD with Banker's Cheque in favour of

NHPC Limited
payable at
SBI, Rangit Nagar (Branch Code-9808), Hingdam

Bidder has to upload scanned copy / proof of the BC along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

8. Forms of EMD and PBG

Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name

NHPC limited, Rangit Power Station, Rangit Nagar, South Sikkim.
Account No.
11893483534
IFSC Code
SBIN0009808
Bank Name
State Bank of India
Branch address
State Bank of India, Rangit Nagar, Hingdam, South Sikkim

Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

9. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

NHPC Limited

payable at

SBI, Rangit Nagar (Branch Code-9808), Hingdam

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

10. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name

NHPC limited, Rangit Power Station, Rangit Nagar, South Sikkim.

Account No.

11893483534

IFSC Code

SBIN0009808

Bank Name

State Bank of India

Branch address

State Bank of India, Rangit Nagar, Hingdam, South Sikkim

. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

11. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.

11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers / Service Providers are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972 etc. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action

in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्यवाई का आधार होगा।

---Thank You/धन्यवाद---