ODISHA HYDRO POWER CORPORATION LIMITED

OFFICE OF THE SENIOR GENERAL MANAGER (ELECTRICAL)
UPPER KOLAB H.E. PROJECT: AT/PO: BARINIPUT
DISTRICT: KORAPUT, PIN- 764006

------ ---

TENDER SPECIFICATION FOR

"Design, Manufacturing, Supply including Supervision of Installation, Testing & Commissioning of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput"

TENDER CALL NOTICE NO. UKHEP-06/25-26, Dt. 30/04/2025

COST OF TENDER PAPER: Rs. 11,800/- (i.e. (Rs 10,000/- + GST @ 18%)
(Rupees Eleven Thousand and Eight Hundred only)

Issued Vide M.R No. _____Dated _____

C & P Head,
U. K. H.E.P, Bariniput

ODISHA HYDRO POWER CORPORATION LTD.

(A Government of Odisha Undertaking)
OFFICE OF THE SENIOR GENERAL MANAGER (ELECTRICAL)
UPPER KOLAB HYDRO ELECTRIC PROJECT
At: P.O.: BARINIPUT: DIST. KORAPUT – 764006

PHONE: (06854) 242001: FAX: - (06854) 242038
E-mail: sgmel.ukhep@gmail.com CIN: U40101OR1995SGC003963

C O N T E N T S

PART-I

PART – II:

PRICE BID

ODISHA HYDRO POWER CORPORATION LTD

OFFICE OF THE SENIOR GENERAL MANAGER (ELECTRICAL)
UPPER KOLAB H.E. PROJECT: AT/PO: BARINIPUT
DISTRICT: KORAPUT, PIN- 764 006.
PHONE: 06854 242001 FAX: 06854 242038
REGD OFFICE: ODISHA HYDRO POWER CORPORATION LTD
JANPATH, BHOINAGAR, BHUBANESWAR- 751022
TELEPHONE: 0674 – 2542802, 3542826, 2545536, FAX: 0674 2542102
CIN: U40101OR1995SGC003963

(TECHNO – COMMERCIAL BID)

"……."

TENDER CALL NOTICE NO-06/25-26, Dt. 30/04/2025

ODISHA HYDRO POWER CORPORATION LTD

OFFICE OF THE SENIOR GENERAL MANAGER (ELECTRICAL)
UPPER KOLAB H.E. PROJECT: AT/PO: BARINIPUT
DISTRICT: KORAPUT, PIN- 764 006.
PHONE: 06854 242001 FAX: 06854 242038
REGD OFFICE: ODISHA HYDRO POWER CORPORATION LTD
JANPATH, BHOINAGAR, BHUBANESWAR- 751022
TELEPHONE: 0674 – 2542802, 3542826, 2545536, FAX: 0674 2542102
CIN: U40101OR1995SGC003963

No. OHPC: SGM: UKHEP: C & P / /Dated, Bariniput the

NOTICE INVITING TENDER No. 06/25-26, date: 30/04/2025

Sealed Tenders are invited in TWO PART i.e. (i) Techno Commercial Bid & (ii) Price Bid in separate sealed envelopes from the **Registered Manufacturers/ Authorized dealers** for **"Design, Manufacturing, Supply including Supervision of Installation, Testing & Commissioning of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput".**

Sl No.	Description	Cost of tender paper (Rs)	EMD amount in Rs.
1	**"Design, Manufacturing , Supply including Supervision of Installation, Testing & Commissioning of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput"**	**Rs. 11,800.00 (Rs. 10,000/- + GST @ 18%)**	**Rs.73,000/-**

Sale of tender paper : From 10:00Hrs of Dt.09/05/2025 to 11:00 Hrs. of 26/05/2025

Last date of submission of tender : Up to 12:00 Hrs. of 26/05/2025

Date & Time of opening of tender : At 12:30 Hrs. of 26/05/2025

For details of the tender documents, terms and conditions & corrigendum please visit our website www.ohpcltd.com

C & P Head
U. K. H.E.P, Bariniput

ODISHA HYDRO POWER CORPORATION LTD.

(A Government of Odisha Undertaking)
OFFICE OF THE SENIOR GENERAL MANAGER (ELECTRICAL)
UPPER KOLAB HYDRO ELECTRIC PROJECT
At: P.O.: BARINIPUT: DIST. KORAPUT – 764006

PHONE: (06854) 242001 ***FAX: - (06854) 242038***
E-mail: sgmel.ukhep@gmail.com

SECTION-I
INSTRUCTION TO TENDERER

1.1 SCOPE & TECHNICAL WORK:

The scope of the work covers **"Design, Manufacturing, Supply including Supervision of Installation, Testing & Commissioning of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput"** in accordance with the technical specification as per Section IV.

1.2 CORRESPONDENCE:

All correspondences shall be made in English only to the Unit Head, OHPC Limited, UKHEP, Bariniput.

1.3 SCHEDULE OF DATES:

The various crucial dates relating to **"Design, Manufacturing and Supply including Supervision of Installation, Testing & Commissioning of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput"** are cited as under:

(a) Period of sale /download of Tender Document: From10:00 Hrs of Dt.09/05/25 to 11:00 Hrs. of 26/05/25.

(b) Last Date and time for submission of Tender Document: Up to 12:00 Hrs. of 26/05/2025.

Date and time for opening of Tender: At 12:30 Hrs. of 26/05/2025.

(c) If any of the days happens to be a holiday, the next working day will be the corresponding effective dates & time.

1.4 COST OF TENDER PAPER:

The tender specification should be accompanied with the cost of tender paper for Rs. 11,800/- (Rs. 10,000/- + GST 18%) in shape of Bank draft/ Bankers Cheque from any Nationalized Bank /Schedule bank drawn in favour of "Odisha Hydro Power Corporation Ltd." payable at Jeypore, Upper Kolab Hydro Electric Project, Bariniput. (IFSC Code SBIN0000101). Paper Cost shall be prepared in separate DD/BC.

The DD /BC for Tender Paper Cost and EMD shall be prepared by the Applicant. In Case DD/BC is prepared by other than applicant, an authorization by the applicant for preparation of DD/BC by his representative must be submitted along with tender. If the applicant fails to submit required authorization, he will be liable for rejection.

a. **The DD /BC for Tender Paper Cost and EMD shall be prepared separately. The DD/ Banker's Cheque for Tender Paper Cost should be prepared during the Tendering Period only.**

b. **The DD/ Banker's Cheque prepared before the date of publication of Tender Call Notice will be out rightly rejected.**

1.5 EARNEST MONEY DEPOSIT:

The tenderers are required to deposit an amount of **Rs.73, 000/-** (Refundable) as EMD in shape of Bank Draft/ Bankers Cheque from any nationalized bank/ scheduled bank drawn in favour of Odisha Hydro Power Corporation Ltd payable at Jeypore, (IFSC Code SBIN0000101) along with tender documents, failing which the offer will be out rightly rejected and no further correspondence in this regard will be entertained.

1. The EMD amount will not carry any interest.
2. The EMD of unsuccessful bidder will be returned after finalization of tender.
3. The EMD of successful bidder will be returned after submission of performance bank guarantee, security deposit and after execution of contract agreement.
4. If the successful bidder fails to execute the agreement within 15 days of receipt of Work Order, the EMD amount will be forfeited.

1.6 ELIGIBILITY CRITERIA:

The firm must be **Registered Manufacturer or Authorized Dealer**, having supplied at least one transformer of the same or higher rating, with a minimum of **three years of satisfactory performance** for any Government Department/ PSU/ Semi-Government Organization in the **last 05(five) years**

(a) Documentary evidence supporting the eligibility criteria must be submitted along with the bid.

(b) Bids submitted by third-party resellers, unauthorized dealers or any other non-manufacturing entities will not be accepted or considered.

(c) Any bid that fails to provide the required documentation verifying the bidder's status as a Manufacturer or Authorized Dealer will be disqualified from consideration.

1.7 DOCUENTS TO BE SUBMITTED ALONG WITH THE BID:

A. Techno-Commercial Bid: (Part-1) must be accompanied with the following documents otherwise the tender will be liable for rejection.

(i) Cost of Tender paper as per Clause No. 1.4 of Section-I.
(ii) EMD as per Clause No. 1.5 of Section-I.
(iii) Self-attested Copies of valid IT PAN & GSTIN.
(iv) A declaration by the Tenderer, that the Tenderer has no relation with any employee serving under OHPC (as per prescribed format in **Annexure-2).**
(v) Proof of eligibility criteria as per Clause No. 1.6 of Section-I & as per **Annexure-3.**
(vi) Any other documents as per the checklist as per **Annexure-4.**
(vii) Downloaded Copy of the tender document/ Tender paper to be signed on each page.
(viii) An affidavit by the tenderer, that the firm is not black listed. (As per prescribed format in **Annexure-5**).
(ix) Guaranteed Technical Particulars as per **Annexure-6**.
(x) Copy of registration certificate or Authorised Dealership Certificate as applicable for

Manufacturer/ Authorized Dealer.

(xi) Deviation from specification (**annexure-7**).

(xii) Type test reports of same rated transformer or higher conducted at Govt. /Govt. authorized testing laboratory within last 05 years as per **Clause No-2.22.**

(xiii) Drawings & literature of **offered Transformer**.

NB: The Part-I Bid is exclusively meant for techno-commercial evaluation. So, no price offer should be enclosed in Part-I Bid. However, in case Part-I Bid contains any document / offer relating to Contract Price, the same shall not be considered at any stage of tender evaluation or finalization of tender & shall be out-rightly rejected. The authority also reserves the right to reject any tender or all tenders in case of non-conformity to the instructions issued in this regard.

B. <u>PRICE BID (Part-II):</u>

Price Bid in part-II in closed envelope as per Section-VI is to be submitted separately.

1.8 Both the envelopes should be placed inside another sealed envelope super-scribed with TCN No. & marked as Tender for **"Design, Manufacturing, Supply including Supervision of Installation, Testing & Commissioning of one no. of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput".**

1.9 If the office happens to be closed on the date of receipt of the tender or on the opening date as specified in the tender notice, tenders will be received and opened on the next working day at the same time and venue.

1.10 No Post tender correspondence shall be entertained.

1.11 Modification of specification and extension of closing date and opening of tender if required will be made by issue of corrigendum / amendment / addendum to be floated in OHPC website only.

1.12 All documents relating to tender shall be written in the English language only.

1.13 In case any tenderer wants to withdraw his tender before expiry of validity period and if the successful bidder fails to accept the order to supply the material after finalization of tender, then he shall be debarred from participation in any tender for a period of three years and action will be taken to blacklist the bidder.

1.14 Any request from the tenderer in respect of addition, alternation, modification, correction etc., either terms and conditions or rates of his tender after opening of the tender will not be considered.

1.15 Tenderers are expected to be fully conversant with the meaning of all the clauses of the specification before submitting their tenders. Failure to furnish all information, required by the Bidding documents or submission of a bid, not substantially responsive to the Bidding Documents in every respect will be at the Bidder's risk and may result in the rejection of his bid. In case, any deviation is found in the tender document submitted by the tenderer from the content mentioned in our web site www.ohpcltd.com and/or non-submission of the cost of tender documents, the tender shall be liable for rejection at any stage of the contract. The tenderer has to indemnify OHPCL for any loss accruing due to such alteration in the terms and conditions of the bid document & or for such alternation, resulting, in the cancellation of the contract.

1.16 The tenderer should visit the site before submission of tender to check the site feasibility.

1.17 The tenderer has to sign with seal in each pages of the tender specification and submit along with the technical bid as a token of acceptance of the tender specification.

1.18 Conditional offer shall not be accepted. Overwriting, erasures and other changes shall bear the dated initial of the person signing the tender.

1.19 The authority reserves the right to delete, alternate any of the tender specification or part thereof at his discretion.

1.20 No tenderer will be permitted to furnish their tender in their own manuscript papers.

1.21 All tenders will remain valid for a period of **180 days** from the date of opening of tenders.

1.22 The rate should be quoted in **Indian Rupees** only.

1.23 The authority reserves the right to reject any or all the tenders without assigning any reason thereof.

C & P Head
UKHEP, Bariniput

(A Government of Odisha Undertaking)
OFFICE OF THE SENIOR GENERAL MANAGER (ELECTRICAL)
UPPER KOLAB HYDRO ELECTRIC PROJECT
At: P.O.: BARINIPUT: DIST. KORAPUT – 764006
PHONE: (06854) 242001 *FAX: - (06854) 242038*
e-mail: sgmel.ukhep@gmail.com

SECTION-II

GENERAL TERMS AND CONDITIONS

2.1 PREPARATION OF BID

The following Documents are to be submitted along with Bids (PART-I& II) in one sealed envelope.

A. Techno-Commercial Bid (Part-1) in separate envelope containing the following documents:

i) Tender paper cost.
ii) EMD
iii) Self-attested copies of valid IT PAN and GSTIN.
iv) Down loaded Copy of the tender document/ Tender paper to be signed on each page. Registration certificate, Authorized dealership certificate, past experience, etc. as applicable.
v) A declaration by the Tenderer, that the Tenderer has no relation with any employee serving under OHPC as per **Annexure-2.**
vi) Proof of eligibility criteria as per clause no 1.6 of section I as per **Annexure-3**.
vii) Any other documents as per the check list given in **Annexure- 4.**
viii) An affidavit by the Tenderer that the firm is not black listed. (As per prescribed format in Annexure-**5**).
ix) Guaranteed Technical Particulars as per **Annexure-6.**
x) Deviation from specification (**Annexure-7)**.
xi) Type test reports of same rated transformer conducted at Govt. /Govt. authorized testing laboratory within last 05 years as per **Clause No-2.23**.
xii) Drawings & literature of offered Transformer.

B. Price bid in the prescribed form given in Part –II as per Section-VI in another sealed envelope super scribed as "Price bid".

i) Both the envelopes should be placed inside another sealed envelope super scribed with TCN no. & marked as **"Design, Manufacturing, Supply including Supervision of Installation, Testing & Commissioning of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput"** and addressed to the C & P Head, UKHEP.

2.2 CLARIFICATION & AMENDMENT:

I) At any time before submission of bid, the client may, for any reason, modify the tender documents by amendment. The amendment, if any, shall be issued through an addendum which shall be kept on the official website of OHPC for information of the firms / agencies who intend to submit quotation. Before submitting the bid the firms, / agencies are advised to go through the website to find out such addendum / errata / corrigendum if any issued by the client. The addendum / errata / corrigendum will be binding on the all firms / agencies submitting the quotation. The client also reserves the

right without any obligation or liability to accept or reject any or all the quotation at any stage of the process and to cancel or modify the process or any part thereof or to vary terms and conditions at any time without assigning any reason thereof.

II) Tenderers shall carefully examine the tender documents and the technical specification. Should a tender find any discrepancies or omissions from the specification or other documents, he should at once intimate the authority and obtain clarification in writing. This, however, does not entitle the Tenderer to ask time beyond the due date fixed for receipt of tenderers.

III) In case any bidder who has submitted the bid before issue of corrigendum / addendum etc., if desired so can submit another bid super scribing as "revised bid against **TCN No.06/25-26, Date. 30/04/2025** on the envelope containing the tender documents.

2.3 CORRIGENDUM:

Modification of specifications and extension of closing date or opening date of Tender, if required, will be made by corrigendum. Copies of such corrigendum will be floated in OHPC website only. This shall be signed and shall form a part of the Tender. Tenderers are required to visit the website for such corrigendum/errata/ addendum if any.

2.4 SUBMISSION OF BIDS: -

The interested agencies are advised to submit their offer, along with all required information/ documents in TWO PART bidding system i.e. (i) Techno Commercial Bid & (ii) Price Bid in separate sealed envelopes and both the envelopes should be placed inside another sealed envelope super scribed with TCN no. & marked as **"Design, Manufacturing, Supply including Supervision of Installation, Testing & Commissioning of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput"** and addressed to the Unit Head, UKHEP within due date.

2.5 OPENING OF BID: -

- The techno-commercial bid shall be opened on the scheduled date and time **at 12:30 Hrs. on dated. 26/05/2025** at Odisha Hydro Power Corporation Ltd., Office of the Senior General Manager (Elect.), UKHEP, Bariniput At/PO: Bariniput, Dist Koraput, Odisha in the presence of the Tenderer or authorized representative of the Tenderer if any who wish to be present on that spot at that time.
- After scrutiny of the technical particulars and other commercial terms, if the bidders meeting the qualifying requirement as per Annexure-6 (Guaranteed Technical Particulars) and terms & conditions of the tender specification, their bids will be accepted for further consideration.
- Clarification regarding technical particulars, if required, shall be sought for from bidders. On receipt of such clarification, the bids shall be reviewed, evaluated and those not in conformity with the specification shall be rejected. The price bid of technically qualified bidders shall be opened in presence of the bidders /their authorized representatives on the date & time, to be fixed and intimated individually.

2.6 EVALUATION: -

(i) Evaluation shall be based both on Techno-Commercial Bid & Price Bid submitted by the Bidders.

(ii) Bidders who do not meet the Eligibility Criteria and stipulations are liable for rejection. Failure to submit the required documents within the stipulated time shall result in exclusion from further evaluation.

(iii) The techno-commercial bid is to be checked for its conformity to the technical specification (Section-IV) and Guaranteed Technical Particulars (Annexure-6).

(iv) The competent authority reserves the right to cancel any or all bids without assigning any reason thereof.

(v) The transformers must be designed with tolerances in accordance with IS/IEC specifications.

2.7 OUTRIGHT REJECTION C R I T E R I A : -

(i) Bidders whose bid is not received in time.

(ii) Bidders submitting false evidences that cannot be verified during the process shall be disqualified/ terminated on detection.

(iii) Bidder not submitting the bid in line with the Tender requirement

(iv) Conditional bids shall not be considered and will be out rightly rejected in very first instance.

(v) Tender Paper cost, EMD, Valid PAN & Valid GST registration not submitted with bid.

(vi) Tenderers are required to go through the specification thoroughly and carefully and submit all required information in the enclosed annexure and if found not furnished, the bids will be treated as incomplete and will be liable for rejection without any correspondences by the purchaser.

(vii) Non-submission of Guaranteed Technical Particulars as per technical specification **(Annexure-6).**

(viii) Bid found in open condition.

(ix) Price bid found in open condition with Techno-Commercial Bid

2.8 COST OF TENDER PAPER:

The tender specification should be accompanied with the cost of tender paper for Rs. 11,800/- (Rs. 10,000/- + GST 18%) in shape of Bank draft/ Bankers Cheque from any Nationalized Bank /Schedule bank drawn in favour of "Odisha Hydro Power Corporation Ltd." payable at Jeypore, Upper Kolab Hydro Electric Project, Bariniput. (IFSC Code SBIN0000101). Bids not accompanied with tender paper cost shall be out rightly rejected.

2.9 EARNEST MONEY DEPOSIT:

The tenderers are required to deposit an amount of **Rs.73, 000/-** (Refundable) as EMD in shape of Bank Draft/ Bankers Cheque from any nationalized bank/ scheduled bank drawn in favour of Odisha Hydro Power Corporation Ltd. payable at Jeypore, (IFSC Code SBIN0000101) along with tender documents, failing which the offer will be out rightly rejected and no further correspondence in this regard will be entertained.

i) The EMD amount will not carry any interest.

ii) The EMD of unsuccessful bidder will be returned after finalization of tender.

iii) The EMD of successful bidder will be returned after submission of security deposit and after execution of contract agreement.

iv) If the successful bidder fails to execute the agreement within 15 days of receipt of work order, the EMD amount will be forfeited.

2.10 SCOPE & TECHNICAL SPECIFICATION:

The scope of work covers is as per section IV.

The scope of the work covers **"Design, Manufacturing, Supply including Supervision of Installation, Testing & Commissioning of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput".** The scope of procurement also includes all other requirements in complete shape as mentioned in the technical specification of the equipment.

2.11 PRICE: -

The price shall be firm & FOR destination basis only at the Consignee's Store i.e. UKHEP, Bariniput. The basic value of the Transformer includes the supply of the Transformer with all accessories**,** the required quantity of oil plus 10% extra and charges for supervision of installation, testing, and commissioning at the site along with all applicable Taxes & Duties, Packing & Forwarding, Freight, and Insurance.

If any discrepancy between rates quoted in figures & words, the rate quoted in words shall be taken as correct.

2.12 **TAXES & DUTIES: -**

i) Only applicable GST shall be paid as per rule.

ii) Taxes deductible at source shall be deducted from the bills of the firms as per prevailing rules.

2.13 **BILLS: -**

The bills in triplicate (GST invoice) shall be submitted along with all necessary documents as required for the respective scope of work. The bill for the **Supply part** shall be submitted to the **Consignee**, while the bill for the **Commissioning part** shall be submitted to the **Engineer-In-Charge**, along with the required documents, including PAN, GSTIN, Guarantee Certificate, Testing Report and Commissioning Report, as applicable.

2.14 **VALIDITY: -**

The bids should have a validity period of 180 days from the date of opening of tenders, failing which the tenders will be rejected.

2.15 PERFORMANCE BANK GUARANTEE/SECURITY DEPOSIT: -

Performance Bank Guarantee for 10% of the Work Order value from any nationalized bank / Schedule Bank executed in a non-judicial stamp paper of Rs. 100/- (Rupees Hundred) only or any amount as per Odisha stamp duty Act strictly as per the Performa enclosed shall be furnished by the supplier towards performance security purpose on or before execution of agreement.

a. The confirmation letter of the concerned bank should be furnished along with the bank guarantee.

b. The Bank Guarantee shall be furnished within fifteen (15) days from the date of issue of the Work Order and shall remain valid till completion of guarantee period.

c. If desired, the performance bank guarantee may be submitted in shape of bank draft/banker's cheque drawn from any nationalized bank scheduled bank in favor of OHPC limited payable at Jeypore. (IFSC Code-SBIN 0000101).

d. No interest is payable on the performance bank guarantee.

e. No adjustment towards performance bank guarantee shall be made against any outstanding amount.

f. The performance bank guarantee will be released after successful completion of guarantee period.

g. In case of necessity, if the validity of performance bank guarantee required to be extended, it shall be extended suitably**.**

h. Failing submission of performance bank guarantee, the purchase order will be liable for cancellation & will lead to forfeiture of the EMD.

In the event of any breach or default in all or any of the condition set forth and provided in the purchase order OHPC may invoke the whole amount of performance bank guarantee.

2.16 STANDARDS

The material shall be conformed to the latest relevant standard of I.S/I.E.C/CBIP Technical report as per **Section-IV** (Technical Particulars).

2.17 TRANSIT INSURANCE:

Transit insurance of materials should be done by the supplier at their own cost. The responsibility of transportation/delivery of the materials at destination in good condition rests with the supplier. Any claim with the insurance company or transport agency arising due to loss or damage in transit has to be settled by the supplier. The supplier shall undertake for replacement of materials immediately, on receipt of such written information from Consignee regarding damage or loss, without waiting for settlement of claims with their carriers and underwriters.

2.19 DELIVERY / COMPLETION PERIOD: -

a) The zero date of the contract to be entered into with the successful bidder by UKHEP, shall be treated as date of issue of Work Order by UKHEP, Bariniput

b) The successful bidder shall have to submit the requisite drawings and site commissioning instructions as required under this specification to UKHEP site within **45 days** of issue of **Work Order** seeking approval of UKHEP site authorities.

c) Within 15 days from receipt of drawings from the successful bidder, UKHEP site authorities shall have to communicate drawing approval, with or without any comments, as the case may be, as per technical requirements /analysis commensurate with site conditions written /corrected on the body of the drawings of the firm. The successful bidder shall have to acknowledge receipt of the corrected & approved drawings from UKHEP site authorities and make necessary changes to the design and accordingly submit the as-built drawings to the UKHEP site authorities in the manner & number of copies described in this specification.

d) All other assignments including invitation for factory tests as described in this specification strictly in accordance with IS and other relevant standards, conditions of

routine /special tests at factory & other tests at site, approval of test reports, issuance of dispatch instruction, transportation of the new Power Transformer along with oil and all other accessories, receipt of the materials /equipment at site in good condition, conduction of site tests, supervision of installation, testing and successful commissioning of the said Transformer, shall have to be completed in all respect within **06 (Six) months** from the date of issuance of approved drawings by UKHEP site authorities to the successful bidder.

e) Prospective (s) bidders are encouraged to squeeze the time line as much as practically possible.

2.20 INSPECTION AND TESTING:

The purchaser's representative may inspect and test the equipment at the supplier's or sub-vendor's premises during manufacturing. This does not relieve the supplier from contractual obligations. The supplier must provide a 30-days written notice for inspection and include calibration certificates from a government-approved laboratory. A packing list indicating deliverable quantities should also be provided.

The supplier must facilitate the tests with necessary resources and present routine test and calibration certificates before inspection. Test results will be reviewed and approved by the purchaser if they meet standards, and four copies of the test certificates must be provided. The purchaser may conduct independent tests if there are quality disputes. If the equipment is not ready for inspection on the scheduled date, the supplier will bear the costs of the inspector's visit and any repeated tests.

2.21 DESPATCH INSTRUCTIONS: After approval of Inspection & Test reports, the despatch instruction shall be issued. After issue of despatch instruction, the materials should be securely packed and despatched duly insured directly to the destination i.e. Power House under Divisional Head, Generation Division, UKHEP, Bariniput at the supplier's risk by Rail/ Road Transport.

2.22 PACKING FORWARDING, FREIGHT, LOADING & UNLOADING OF ORDERED MATERIALS: -

It will be the sole responsibility of the supplier for packing & forwarding, freight, transit insurance, loading and unloading of materials both at the factory site and at the destination site/store. The Purchaser shall have no responsibility on this account. The materials shall be packed in suitable so as to withstand handling during transport and outdoor storage during transit. The supplier shall be responsible for any damage to the materials during transit, due to improper and inadequate packing.

2.23 TEST CERTIFICATE:

Type Test results as per relevant IEC/IS of the same rated transformers or higher ratings conducted at Govt./ Govt. recognized labs during last 5 years from the date of opening of this tender, shall be submitted along with the Technical Bid. Routine and acceptance tests on the equipment to be supplied shall be submitted by the supplier after inspection & testing at Manufacturer's Works, after which the Despatch Clearance shall be issued for delivery of materials.

2.24 OHPC AUTHORITY RESERVES THE RIGHTS: -

(a) To reject any or to accept any or all tenders.
(b) To increase or decrease the quantity of materials or to change the distribution schedule covered under the tender without assigning any reason thereof.
(c) The purchase order will be liable for cancellation in the event of un-satisfactory supply/ delay in supply of materials, and non-observance of relevant clauses of the purchase order.

2.25 GUARANTTEE: -

The material covered under this specification should be guaranteed for satisfactory & trouble-free operation for a minimum period of **36(thirty-six) months** from the date of delivery or **30[thirty] months** from the date of commissioning, whichever is earlier. The supplier should rectify any defect/ replace the defective materials noticed during this period free of cost. A Certificate in this regard is to be furnished along with the final bill.

2.26 AGREEMENT:

The Supplier / Contractor shall have to execute an agreement with a Non- Judicial Stamp Paper worth as applicable as per Odisha Stamp Duty Act as per the prescribed forms of Govt. of Odisha with the Engineer-In –Charge of UKHEP, Bariniput by the contractor after depositing of security deposit within **15 days** of issue of work order, failing which the order will be treated as cancelled.

2.27 AWARD OF CONTRACT:

The purchaser will award the contract to the bidder whose bid is determined to be substantially responsive to the bidding documents, technically qualified and who has offered the lowest evaluated bid price for the complete work, provided further that the bidder has the capability and resources to carry out the contract effectively to the optimum satisfaction of the purchaser.

The customer reserves the right to accept or reject any bid or part thereof and to alter the bidding process and reject all bids at any time prior to award of contract without assigning any reason thereof.

In the interest of work, the Purchaser reserves the right to relax any terms and conditions without affecting the quality & price of the equipment.

2.28 CONSIGNEE:-

Divisional Head, Generation Division, UKHEP, Bariniput.

2.29 Verifying Officer/Engineer-In-Charge: - Divisional Head P & C Division, UKHEP, Bariniput.

2.30 JURISDICTION: -

All disputes shall be under the jurisdiction of the court of Odisha High Court extends.

2.31 SETTLEMENT OF DISPUTE: -

(i) **Amicable Settlement: -** Any dispute(s) or difference(s) arising out of or in connection with the contract shall to the extent possible, be settled amicably between the parties.

(ii) **Dispute Resolution: -** Decision of Unit Head, UKHEP, Bariniput shall be final and binding on both the parties in respect of all matters of dispute arising out of this tender.

C & P Head
UKHEP, Bariniput.

ODISHA HYDRO POWER CORPORATION LTD.
(A Government of Odisha Undertaking)
OFFICE OF THE SENIOR GENERAL MANAGER (ELECTRICAL)
UPPER KOLAB HYDRO ELECTRIC PROJECT
At: P.O.: BARINIPUT: DIST. KORAPUT – 764006

PHONE: (06854) 242001 FAX: - (06854) 242038
E-mail: sgmel.ukhep@gmail.com

SECTION-III
SPECIAL TERMS AND CONDITIONS

3.1 TERMS OF PAYMENT:

a. 70% payment of the contract price for the supply of materials/equipment, along with 100% GST, shall be released upon the satisfactory receipt of all materials (Transformer along with Accessories**)** in full and as per the required specifications at the site by the Consignee**,** verified by the Engineer-In-Charge and upon submission of the necessary documents including the bills in triplicate, Guarantee Certificate, Copy of GSTIN, PAN and Test Certificates as per Section-IV.

b. The balance 30% of the contract price **(**excluding GST**)** for the Supply Part, along with 100% of the contract price for Supervision Charges plus applicable GST, shall be released after the successful commissioning of the Transformer at the UKHEP site, certified by the Engineer-In-Charge and subject to the submission of the bills in triplicate and all Test Certificates related to the commissioning work**.**

c. All payment shall be made through cheque/ DD on nationalized bank only. In case of payment through DD the bank commission charges will be borne by the supplier.

d. Income tax if so applicable will be deducted from the bill at the prevailing rate. TDS certificate to that effect shall however be issued if so required.

3.2 ENGINEER-IN- CHARGE/ VERIFYING OFFICER:

Divisional Head, P & C Division, UKHEP, Bariniput will verify the materials.

3.3 PAYING OFFICER:

Finance wing Head, OHPC Ltd., UKHEP, Bariniput.

3.4 LIQUIDATED DAMAGE:

If the Supplier fails to complete entire scope of works, specified in the contract including delivery time extension, if any, granted thereto, the Purchaser shall recover from the Supplier, Liquidated damages @ half percent (0.5 percent) of the contract value of the undelivered portion for each calendar week of delay or part thereof. **For this purpose, the**

date of receipt of Challan by the consignee shall be reckoned as the date of delivery. The total amount of liquidated damage shall not exceed five percent (5%) of the contract value of the unit or units so delayed. Equipment will be deemed to have been delivered only when all its components, accessories and spares as per technical specification are delivered in full. If certain components, accessories and spares are not delivered in time, the equipment will be considered delayed until such time as the missing parts are delivered.

3.5 FORCE MAJEURE:

The supplier shall not be liable for any liquidated damage for delay or failure to perform the contract for reason of force majeure such as Act of God, Act of public Enemy, Act of Govt., Fire, Flood, Epidemic, Quarantine Restriction, strike, Freight embargoes and provided that the supplier shall within fifteen days from the beginning of such delay, notify OHPC in writing of the nature and cause of such delay. OHPC shall verify the facts and may grant such time extension as fact justified.

3.6 REJECTION OF MATERIALS:

If the material supplied by the supplier are found defective in materials or workmanship or otherwise not in conformity with the requirement of contract specification, OHPC shall either reject the materials or request the supplier in writing to replace the same. The supplier on receipt of such intimation shall replace the defective material free of cost to OHPC, if the supplier fails to do so, OHPC may,

a. At his option replace such defective materials and recover the extra costs so involved from the supplier, and/or
b. Terminate the contract with forfeiture of performance bank guarantee.

3.7 DEBARMENT:

If the contractor fails to execute the work in full shape as per tender condition, the security deposit will be forfeited. Further proceeding for blacklisting shall be initiated against Bidder for a minimum period of one year.

C & P Head
UKHEP, Bariniput.

ODISHA HYDRO POWER CORPORATION LTD.

(A Government of Odisha Undertaking)
OFFICE OF THE SENIOR GENERAL MANAGER (ELECTRICAL)
UPPER KOLAB HYDRO ELECTRIC PROJECT
At: P.O.: BARINIPUT: DIST. KORAPUT – 764006

PHONE: (06854) 242001 FAX: - (06854) 242038
E-mail: sgmel.ukhep@gmail.com

SECTION-IV
SCOPE & TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION FOR 4 MVA POWER TRANSFORMERS

4.1Scope:

This specification covers the design, manufacture, assembly, inspection & testing, supply and delivery at site i.e. UKHEP, Bariniput according to the following specifications of the transformer including supervision of installation, site testing and commissioning complete with all accessories & fittings with first filling oil and extra 10% oil for satisfactory operation at site.

- 4 MVA 33/11 KV Power Transformers fitted with off circuit tap changer

The ordered transformer should be guaranteed for satisfactory operation for Five years from the date of receipt of material at Central Store.

It is not the intent to specify completely herein all the details of the design and construction of equipment. However, the equipment shall confirm in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation up to the Bidder's guarantee, in a manner acceptable to the purchaser, who will interpret the meanings of drawings and specification and shall have the power to reject any work or material, which in his judgment is not in accordance there with. The offered equipment shall be complete with all components necessary for their effective and trouble free operation. Such, components shall be deemed to have been included within the scope of Bidder's supply irrespective of whether those are specifically brought out in this specification and/or the commercial order or not.

OHPC reserves the right to reject the transformer-

i) If on testing the No-load and load- losses exceed the stipulated values as per this Technical Specification.

ii) If the temperature rises in oil and / or winding exceeds the value as per this Technical Specification.

iii) If impedance value differs from the guaranteed value including tolerance as per this specification.

iv) On Inspection and testing, if any of the technical data does not comply with this specification, bid offer and approved drawings etc.

- The offered rating transformer should have been tested for “Short Circuit withstand capability test” and “Impulse test” in an NABL accredited Government Laboratory as per relevant IS/IEC and the Type Test certificates in complete shape shall be accompanied with the bid offer.

4.2Standards(Codes):

The transformers shall confirm in all respects to IS-2026/1977 (with latest Amendments) / IEC 600 76 –1993 (with latest Amendments thereof) except where specified otherwise. Equipment meeting any other authoritative standard which ensures an equal or better quality than the standards mentioned above will also be acceptable. In such a case, a copy of standard (English version) followed should be enclosed with the tender. Acceptability of any alternative standard is at the discretion of purchaser

The Power Transformer, oil, bushings, tap changer and other accessories that are used in manufacturing of transformer shall conform in all respects to the relevant Indian Standard Specifications / IEC Standards, with latest amendments as indicated below.

Indian Standard	**Title**	**International & Internationally recognized standard**
	Specification Of Power & Distribution Transformer	C.B.I.P. Publication 275(1999)
	Noise level	NEMA(TQ-I)
IS: 1271	Classification of insulating materials for electrical machinery and apparatus in relation to their stability in services	IEC-296
IS-5	paints & Enamels	
IS-3637	Gas Operated Relays	
IS-2026/1977	Specification for Power transformers Part I to IV	IEC – 600 76 –1993 – Power Transformers – Part 1 to 5. IEC 60 071
IS : 335/1993 with latest amendment	New insulating oils Electrical Clearances	
IS-3347 and IS 2099/1986	Bushings for alternating voltages above 1000V.	
IS 3639	Specification for fittings and accessories for Power Transformer	
IS-6600	Specification for loading of Power Transformer	
IS-2071	Method of high voltage testing	

4.3 CONFLICT OF STANDARDS:

Equipment conforming to other internationally accepted standards, which ensure equal or higher quality than the standards mentioned above would also be acceptable. In case the Bidders who wish to offer material conforming to the other standards, salient points of difference between the standards adopted and the specific standards shall be clearly brought out in relevant schedule of deviation. Four copies of such standards with authentic English

Translations shall be furnished along with the offer. In case of conflict the order of precedence shall be (i) IS (ii) IEC (iii) Other standards. In case of any difference between provisions of these standards and provisions of this specification, the provisions contained in this specification shall prevail.

4.4SERVICE CONDITIONS:

The power transformers to be supplied against this specification shall be suitable for satisfactory continuous operation under the following climatic condition as per IS 2026(Part-I). The climatic condition specified below are indicative only.

i)	Location	At UKHEP, Koraput
ii)	Max. ambient air temperature (deg.C)	50
iii)	Min. ambient air temperature (deg.C)	9
iv)	Average daily ambient air temperature (deg.C)	24
v)	Max. Relative Humidity (%)	74
vi)	Max. altitude above mean sea level (Meters)	870
vii)	Average Annual rainfall (cm).	190
viii)	Max. Wind pressure (kg/sq.m.)	200
ix)	Isoceraunic level (days per year)	50
x)	Seismic level (Horizontal accn.)	0.3 g.

The equipment shall be for use in moderately hot and humid tropical climate conducive to rust and fungus growth.

4.5PERFORMANCE:

i. Transformer shall be capable of withstanding for two seconds without damage to any external short circuit.

ii. The maximum flux density in any part of the core and yoke at rated MVA, Voltage and frequency, shall be 1.5 Tesla (maximum).

iii. Transformer shall under exceptional circumstances due to sudden disconnection of the load, be capable of operating at the voltage approximately 25% above normal rated voltage for a period of not exceeding one minute and 40% above normal for a period of 5 seconds.

iv. The transformer may be operated continuously without danger on any particular tapping at the rated MVA ± 12.5% of the voltage corresponding to the tapping.

v. The thermal ability to withstand short circuit shall be demonstrated by calculation.

vi. Transformer shall be capable of withstanding thermal and mechanical stress caused by any symmetrical and asymmetrical faults on any winding. The Bidder shall submit the necessary Short Circuit Force Calculation with the offer.

4.6Erection, Testing & Commissioning:

The Erection, Testing & Commissioning of 4 MVA transformers shall be supervised by trained personnel (engineer) of the tenderer at UKHEP Site. The engineer shall direct the sequence of commissioning tests during carry out of installation & commissioning work.

4.7GENERAL PARAMETERS:

a.Design and Standardization:

(i) The transformer and accessories shall be designed to facilitate operation, inspection, maintenance and repairs. All apparatus shall also be designed to ensure satisfactory operation under sudden variations of the load and voltage as may be met with under working conditions on the system, including those due to short circuit.

(ii) The design shall incorporate every reasonable precaution and provision for the safety of all those concerned in the operation and maintenance of the equipment keeping in view the requirements of Indian Electricity Rules.

(iii) All materials used shall be conforming to specified standard and of the class most suitable for working under the conditions specified and shall withstand the variations of temperature, and atmospheric conditions arising under working conditions without undue distortion or deterioration or the setting up of undue stresses in any part, and also without affecting the strength and suitability of various parts for the work for which they have to perform.

(iv) Cast iron shall not be used for chambers of oil filled apparatus or for any part of the equipment which is in tension or subject to impact stresses. This clause is not intended to prohibit the use of suitable grades of cast iron for parts where service experience has shown it to be satisfactory i.e. large valve bodies, unless otherwise specified.

(v) All out-door apparatus, including bushing insulators with their mountings, shall be designed so as to avoid pockets in which water can collect.

(vi) Means shall be provided for easy lubrication of all bearings and where necessary of any mechanism or moving parts that are not oil immersed.

(vii) All mechanism where necessary shall be constructed of stainless steel, brass or gun metal to prevent sticking due to rust or corrosion.

(viii) All taper pins used in any mechanism shall be of the split type complying with IS No. 2393 (latest version) for these items.

(ix) All connections and contacts shall be of sample section and surface for carrying continuously the specified currents without undue heating and fixed connections shall be secured with bolts or set screws of ample size, adequately locked. Lock nuts shall be used on stud connections carrying current.

(x) All apparatus shall be designed to minimize the risk or accidental short circuit caused by animals, birds or vermin.

4.8GALVANISING:

(i) Galvanizing shall be applied by hot-dip process or by electro galvanizing process for all parts other than steel wires and shall consist of a thickness of zinc coating equivalent to not less than 610 gm zinc per square meter of surface. The zinc coating shall be smooth clean and of uniform thickness and free from defects. The preparation for galvanizing and the galvanizing itself shall not adversely affect the mechanical properties of the coated material. The quality will be established by tests as per IS: 2630 (latest version). (Alternatively to galvanizing, aluminizing may also be considered).

(ii) All drilling, punching, cutting, bending and welding of parts shall be completed and all burrs shall be removed before the galvanizing process is applied.

(iii) Galvanizing of wires shall be applied by the hot-dip process and shall meet the requirements of the relevant IS. The zinc coating shall be smooth, clean and uniform thickness and free from defects. The preparation for galvanizing and the galvanizing itself shall not adversely affect the mechanical properties of wire.

(iv) Surfaces which are in contact with oil shall not be galvanized or cadmium plated to avoid acid formation.

4.9LABELS:

(i) Labels shall be provided for all apparatus such as relays, switches, fuses contained in any cubicle or marshaling kiosk.

(ii) Descriptive labels for mounting indoors or inside cubicles and kiosks shall be of material that will ensure permanence of lettering. A matt or satin finish shall be provided to avoid dazzle from reflected light. Labels mounted on dark surface shall have white lettering on a black background. Danger notices shall have red lettering on a white back ground.

(iii) All plates shall be of noncorrosive material.

(iv) Labels shall be attached to panels with brass screws or with stool screws which have received rust preventive treatment or those can be stuck with araldite also.

4.10BOLTS & NUTS:

(i) Steel bolts and nuts exposed to atmosphere with suitable finishes like cadmium plated or zinc plated passivity shall be used.

(ii) All nuts and pins shall be locked in position with the exception of those external to the transformer. Bolts and nuts external to the transformers shall be provided with double flat washer and one spring washer.

(iii) On out-door equipment, all bolts, nuts and washers in contact with non-ferrous parts which carry current shall be of phosphor bronze where the transfer of current is through the bolt.

(iv) If bolts and nuts are placed so that they are in accessible by means of ordinary spanners, suitable special spanners shall be provided by the supplier.

4.11CLEANING AND PAINTING (Polyurethane Painting As Per Relevant IS Standard):

(i) Before painting or filling with oil in case of Transformer, all un-galvanized parts shall be completely clean and free from rust, scale and grease and all external rough surface cavities on castings shall be filled by metal deposition.

(ii) The interior of all transformer tanks and other oil filled chambers and internal structural steel work shall be cleaned of all scale and rust by shot-blasting or other approved method. These surfaces shall be painted with hot oil resisting epoxy paint. Minimum paint thickness shall be 40 microns.

(iii) Except for nuts, bolts and washers, which may have to be removed for maintenance purposes, all external surfaces shall receive a minimum of three coats of paint.

(iv) The primary coat shall be applied immediately after cleaning. The second coat shall be of oil and weather resisting nature and preferably of a shade or colour easily distinguishable from the primary and final coats shall be applied after the second coat has been touched

up where necessary. **The final coat shall be of glossy, oil and weather resisting non-fading paint of shade No. 631 of IS.5. Primer paint shall be readymade zinc chrome as per IS-104 intermediate and final coats of paint shall be as per IS-2932.**

(v) All interior surfaces of mechanism chambers and kiosks except those which have received anti-corrosion treatment shall receive three coats of paint applied to the thoroughly cleaned metal surface. The final coat shall be of a light coloured anti condensation mixture.

(vi) Any damage to paint work incurred during transport and erection shall be made good by the supplier by thoroughly cleaning the damaged portion and applying the full number of coats of paint that had been applied before the damage was occurred.

(vii) The paint work shall be guaranteed for a minimum period of 5 years from the date of receipt of the equipment.

4.12 TECHNICAL REQUIREMENTS

A. CORE:

The core shall be constructed with prime quality, non-ageing, cold rolled, grain oriented (CRGO), silicon steel laminations to meet specific no-load losses at rated voltage operation. No load current shall not exceed 2% of full load current by energizing the transformer at rated voltage and rated frequency. The flux density of the core and yoke at rated voltage and frequency shall comply with the limits specified by IS or IEC standards. The Over fluxing shall be limited to 12.5% of rated value and flux density at 112.5% of rated voltage does not exceeds by 1.9 Tesla. The design of the magnetic circuit shall be such as to avoid static discharges, development of short circuit paths within itself or to the earthed clamping structure and production of flux component at right angles to the plane of laminations which may cause local heating. The supporting framework of the core shall be designed to avoid presence of pockets which would prevent complete emptying of tank through drain valve or cause trapping of air during oil filling. Adequate lifting lugs will be provided to enable the core and windings to be lifted.

In case core laminations are divided into sections by insulating barriers or cooling ducts parallel to the plane of the lamination, tinned copper bridging strips shall be inserted to maintain electrical continuity between sections. A drawing including the details of the internal earthing design shall be included in the user manual.

The bidder should offer the core for inspection and approval by the purchaser during manufacturing stage.

B. WINDINGS:

Material:

i) HV and LV windings shall be wound from Double Paper covered copper conductor.

ii) LV winding shall be such that neutral formation will be at top.

iii) Inter layer insulation shall be Nomex /Epoxy dotted Kraft Paper.

iv) Proper bonding of inter layer insulation with the conductor shall be ensured.

v) Test for bonding strength shall be conducted and report to be submitted.

vi) Dimensions of winding coils are very critical. Dimensional tolerances for winding coils shall be within limits **as specified in Guaranteed Technical Particulars.**

vii) Current density for HV and LV winding should be as per Guaranteed Technical Particulars.

viii) The core/coil assembly shall be securely held in position to avoid any movement under short circuit conditions.

ix) Joints in the winding shall be avoided. However, if jointing is necessary the joints shall be properly brazed and the resistance of the joints shall be less than that of parent conductor. In case of foil windings, welding of leads to foil can be done within the winding.

x) All Reports to be submitted.

C. TAPS:

i) Tapping shall be provided on the high voltage winding for variation of HV voltage within range of - 5.0 % to (+) 10.0 % in steps of 2.5% with 07 nos. of tap switch position.

ii) Tap changing shall be carried out by means of an externally operated self position switch and when the transformer is in de-energised condition. Switch position No.1 shall correspond to the maximum plus tapping. Each tap change shall result in variation of 2.5% in voltage. Provision shall be made for locking the taping switch handle in position. Suitable aluminium anodised plate shall be fixed for tap changing switch to know the position number of tap.

D. INSULATING OIL:

i) The transformer must be supplied with first filling new transformer oil plus extra 10% oil on non-returnable basis conforming to relevant IS Standard.

ii) The insulating oil shall comply with the requirements of IS 335 or BS 148.

iii) Oil shall be filtered and tested for break down voltage (BDV) and moisture content to be analysed by DGA or any approved laboratory before filling.

iv) The design and all materials and processes used in the manufacture of the transformer, shall be such as to reduce to a minimum the risk of the development of acidity in the oil.

v) All Reports to be submitted.

E. LOSSES: The bidder shall guarantee individually the no-load loss and load loss without any positive tolerance. The bidder shall also guarantee the total losses at 50% and 100% load condition (at rated voltage and frequency).

F. TANK:

i) The internal clearance of tank shall be such that it shall facilitate easy lifting of core with coils from the tank without dismantling LV bushings. All joints of tank and fittings shall be oil tight and no bulging should occur during service.

ii) Inside of tank shall be painted with varnish/hot oil resistant paint.

iii) The top cover of the tank shall be slightly sloping to drain rain water.

iv) The tank plate and the lifting lugs shall be of such strength that the complete transformer filled with oil may be lifted by means of lifting shackle.

G. **<u>FITTINGS & ACCESSORIES</u>:** The following standard Fittings & Accessories shall be provided for the Transformer:

i) Rating and terminal marking plates, non-detachable-01 No.
ii) Earthing terminals with lugs - 2 Nos.
iii) Lifting lugs for main tank (04 Nos.) and top cover (02 Nos.)
iv) Terminal connectors on the HV/LV bushings (For bare terminations only).
v) Thermometer pocket with cap - 1 No.
vi) Air release device
vii) HV bushings - 3 Nos.
viii) LV bushings - 4 Nos.
ix) Pulling lugs
x) Stiffener
xi) Radiators (ONAN) - No. and length may be mentioned (as per heat dissipation calculations)/ corrugations.
xii) Prismatic oil level gauge.
xiii) Drain cum sampling valve.
xiv) Top filter valve
xv) Oil filling hole having thread with plug and drain plug on the conservator.
xvi) Silica gel breather.
xvii) The dimension of Base channel along with holes should be provided to match existing platform.
xviii) 4 No. rollers
xix) Pressure relief device or explosion vent.
xx) Inspection covers
xxi) Jacking pads

H. **<u>Protection & Measuring Device</u>: The following standard devices shall be provided for the Transformer:**

i) Oil conservator tank
ii) Pressure relief device
iii) Buchholz relay
iv) Temperature indicator
v) Marshalling box

I. **<u>OVERLOAD CAPACITY</u>:** The transformers shall be suitable for loading as per IS 6600.

J. **<u>TESTS</u>**:

i) All the equipment offered shall be fully type tested by the bidder or his collaborator as per the relevant standards including the additional/special type tests. The type test must have been conducted on a transformer of same rating **during the last five years** at the time of bidding. The bidder shall furnish four sets of type test reports along with the offer. Offers without type test reports will be treated as non-responsive.

ii) The test certificates for all routine and type tests for the transformers and also for the bushings and transformer oil shall be submitted with the bid.

iii) The procedure for testing shall be in accordance with IS1180/2026.

iv) Before despatch each of the completely assembled transformers shall be subjected to the routine tests including additional/special type test at the manufacturer's works in presence of inspecting engineer deputed for the purpose.

K. <u>ROUTINE TESTS (IEC 60076-I)</u>:

i) Ratio, polarity, phase sequence and vector group

ii) Measurement of no Load current and losses at service voltage and normal frequency

iii) Load losses at rated current and normal frequency

iv) Measurement of Impedance voltage /short circuit impedance (principal tap) and load loss (S.C Test)

v) Resistance of windings at each tap

vi) Insulation resistance

vii) Induced over voltage withstand test

viii) Separate source A.C voltage withstand test.

ix) Oil samples (one sample per lot) to comply with IS 1866.

x) Measurement of no load losses and magnetizing current at rated frequency and 90%, 100% and 110% rated voltage.

xi) Oil Leakage & Pressure test.

xii) Dielectric routine test (IEC 60076-3)

xiii) Relevant test reports are to be submitted. The tests which are not mentioned but required for overall performance of the transformer must be carried out.

xiv) Test on bought out component /accessories such as buchholz relay, temp indicator, pressure relief device, oil pressure system etc.

xv) Operational test of all devices.

L. Type test & special tests to be conducted as per relevant IS:

a) After erection at site, the transformer shall be subjected to the following pre-commissioning tests.

1. **Insulation resistance**
2. **Turn ratio measurement**
3. **Vector group test**
4. **Polarity test**
5. **Winding resistance test**
6. **Oil BDV Test**
7. **Magnetizing Current**
8. **Floating neutral test**

The transformer shall be completely assembled and tested at the factory. Test shall be performed in compliance with IS: 2026-201 & the type test including some special tests shall be carried out at purchaser's place:

b) <u>Type Tests:</u>

1. **Temperature Rise Test (IEC-60076-2)**
2. **Die-Electric Test (IEC-60076-3)**

3. **Lighting Impulse Test (relevant IS)**
4. **Determination of Noise/Vibration(IEC-60076-10)**

M. INSPECTION:

i. The purchaser shall have access at all times to the works and all other places of manufacture, where the Transformer is being manufactured and the supplier shall provide all facilities for unrestricted inspection of the supplier's works, raw materials, manufacture of all the accessories and for conducting the necessary tests.

ii. The supplier shall keep the purchaser informed in advance of the time of starting and of the progress of manufacture of equipment in its various stages so that arrangement could be made for inspection.

iii. No material shall be dispatched from its point of manufacture unless the material has been satisfactorily inspected, tested and dispatch clearance issued. However, the purchaser reserves the right to alter the dispatch schedule, attached to this specification without any extra financial liability to OHPC.

iv. The acceptance of any quantity of equipment shall in no way relieve the supplier of his responsibility for meeting all the requirements of this specification and shall not prevent subsequent rejection, if such equipment is found to be defective.

N. Terminal Arrangement:

1. 33 KV & 11 KV Terminal Arrangement

33 KV & 11 KV side of the power Transformer bushings shall have appropriate terminal arrangement to fit in the existing Bus Ducts.

O. Terminal Marking Plates and Rating Plates:

i) All Transformer HV & LV terminals shall be provided terminal marking plated to Tank. Each terminal, including with neutral, shall be distinctly marked on both primary & secondary in accordance with the connection diagram fixed upon the transformer which shall conformed to latest 1S-2026 (part- IV).

ii) Each Transformer shall be provided with rating plate having marking as per IS 1180 (part-l):2014 clearly indicating max. total losses at 50% rated load in watts and maximum total losses at 100% rated load in watts.

iii) Rating & terminal marking plates shall be combined into one plate and shall be mark with standard mark.

iv) The name of the company, order No., capacity, month and year of manufacturing shall be engraved on separate plate which shall be firmly welded to main tank and shall form integral part of the tank.

v) Besides other particulars, following details shall also be given on the name plate.

a) ISI Mark

b) BEE Energy Efficiency level

c) Order No. – Month & year

d) Sr. No. of transformer

e) Date of manufacturing – Month & year

f) Date of expiry of guarantee period – month & year
g) Maximum guaranteed 50% load loss & 100 % load loss figures
h) Name and full address of the manufacturer
- Capacity.
- Rating.

(All details on the rating and diagram plate shall be indelibly marked i.e. by engraving or stamping or etching).

THE GUARANTEED TECHNICAL PARTICULARS as per the Porforma at **Annexure-6** shall be furnished along with the tender failing which the tender shall be out rightly rejected.

C & P Head
UKHEP, Bariniput.

Technical Particulars of existing 4 MVA, 33/11 KV Power Transformer

The existing 4 MVA, 33/11 KV Generator Transformers of GEC make of UKHEP, Bariniput have the following technical parameters.

Sl. No.	Description	Details
1	Name of the manufacturer	The General Electric Co. of India Limited

2	Service	Outdoor, step down
3	Standard of manufacture	IS:2026 / relevant IEC standard
4	Rating:	
	a) Rated KVA	4000 KVA
	b) Rated Voltage of HV winding	33 kV
	c) Rated Voltage of LV winding	11 kV
	d) Rated Current of HV winding	70 Amp
	e) Rated Current of LV winding	210.2 Amp
	f) Insulation Level HV / LV	170 / 75 KVP
	g) Rated Frequency	50 Hz
5	No of Phases	3
6	Type of Cooling	ONAN with radiators
7	Connections:	
	a) HV winding	Delta
	b) LV winding	Star
	c) Vector Group reference	Dyn11
8	Tapings:	Off Circuit
	a) HV winding	-5% to +10%
	b) Location	On HV side
	c) No of Tap switch position	07
9	Maximum temperature rise:	
	a) Oil	Over ambient temp (50°C)
	b) Winding	Over ambient temp (50°C)
10	Ambient temperature	20-45°C (Approx.)
11	Net Core area (Approx.)	682 sq cm.
12	Maximum current density:	
	a) HV winding	330 Amps/sq cm.
	b) LV winding	330 Amps/sq cm.
13	Component Losses:	
	a) No load loss at 100% rated voltage on principal tapping at rated frequency	As per IS Standard
	b) Copper Loss at principal tapping	As per IS Standard
14	Total losses at rated voltage on principal tapping and rated frequency	As per IS Standard
15	Impedance voltage at rated current for principal tapping	7.64%
16	No load current at rated voltage and rated frequency	As per IS Standard
17	Efficiency at normal ratio rated voltage, frequency and 75°C average winding temperature:	At Unity Power Factor

	a) At full load			99.213%
	b) At ¾ full load			99.341%
	c) At ½ full load			99.43%
	d) At ¼ full load			99.365 %
18	Maximum efficiency			99.439%
19	Load at which maximum efficiency occurs			41.7 %
20	Buchholz relay			As per relevant IS / IEC standard
21	Rail track gauge			1.32 Mtr.
22	Core:			
	a) Material of Core lamination			High Permeability CRGO Silicon Steel
	b) Insulating of core laminations & Internal fixtures			Materials used & class of Insulation should be as per Relevant IS / IEC standards
23	Windings:			
	a) Material		Copper	
	b) Insulation		Materials used & class of Insulation should be as per Relevant IS/ IEC standards	
24	Bushings & Terminals:	HV Bushings	LV Bushings	Neutral Bushing
	Type	Overhead & outdoor type bushing with terminals suitable for connection with overhead aluminum conductors using clamps	Bushings with terminals enclosed inside closed box. Terminals be suitable for connection with 150-165 sq mm, 3Φ XLPE power cable using termination kit/ sockets	Overhead and outdoor type. Terminal connected to neutral cable through clamping.
25	Approximate masses:			
	a) Core and winding	4600 kg. (Approx.)		
	b) Oil	2100 kg (Approx.)		
	c) Tank, fittings and accessories	2400 kg (Approx.)		
	d) Un tanking mass	5800 kg (Approx.)		
	e) Transport mass	8500 kg (Approx.)		
	f) Total mass	10500 kg (Approx.)		
26	Volume of oil (IS:335 -1983 with latest revision)	2400 liters (Approx.)		

27	Approximate overall dimensions:	
	a) Length	4400 mm (Approx.)
	b) Width	2800 mm (Approx.)
	c) Height	3100 mm (Approx.)
	d) Height over core	Not Available
28	Paint	Polyurethane Painting as per CEA guidelines / relevant IS
29	Fire Walls	Not Available

N.B.:

1. Prospective Bidders are encouraged to offer improved version transformer confirming to latest IS/ IEC standards and CEA guidelines, if any.
2. Full load efficiency at Unity & other Power Factor of the offered transformer by prospective bidder shall have to meet electricity regulatory requirements / standards.
3. Prospective bidders should visit the site to ascertain site condition and compatibility of the new transformer with the existing system and space.

C & P Head
UKHEP, Bariniput

SECTION-V

Annexure - 1

BANK GUARANTEE
(Security for Performance)

In consideration of the Odisha Hydro Power Corporation Limited, a Company incorporated under the laws of India and having its registered office at Bhubaneswar, Odisha –751001.India (hereinafter called OHPC) having agreed to exempt M/s…… (Hereinafter called "the said Contractor") from

the demand, under the terms and conditions of an agreement No……..dated…….made between and……. for. ……. (Hereinafter called" the said agreement"), of security deposit for satisfactory performances of materials and works (as detailed in the said agreement) during the guarantee period (as detailed in the said agreement) and for the fulfilment by the Contractor(s) of the terms and conditions contained in the said agreement, on production of bank Guarantee for Rs……(Rupees ……..……Only) against any loss or damage caused to or suffered or would be caused to or suffered by OHPC by reason of any breach by the said Contractor (s) of any terms and conditions contained in the said agreement.

We, ……Bank Limited (hereinafter referred to as "the Bank") at the request of the said Contractor do hereby undertake to pay to OHPC an amount not exceeding ……against any loss or damage caused to or suffered or would be caused to or suffered by OHPC by reason for any breach by the said contractor of any of the terms and conditions contained in the said contract.

1. We,……. Bank Limited do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from OHPC stating that the amount claimed is
   due by way of loss or damage caused to or would be caused to or suffered by OHPC by reason of breach by the said contractor of any of the terms and conditions contained in the said contract or by reason of the said Contractors failure to perform the said contract. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.

2. We, the……Bank Limited to pay OHPC any money so demanded notwithstanding any dispute or disputes raised by the said Contractor in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

   The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) /Supplier(s) shall have no claim against us for making such payment.

3. We, the……Bank Limited further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said contract and that it shall continue to be so enforceable till all the dues of the OHPC under or by virtue or the said agreement, have been fully paid and its claims satisfied or discharged until **(Divisional Head), P& C Division, UKHEP, Bariniput**, Odisha Hydro Power Corporation certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractors and accordingly , discharges this guarantee. Unless a demand or claim under this guarantee is made on us in witting on or before the expiry of…….Months from the last delivery of materials or …… months from its use whichever is earlier we shall be discharged from all liability under this guarantee thereafter.
4. We, the……. Bank Limited further agree with OHPC that OHPC shall have the fullest liberty, without our consent and without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said agreement to extend time of performance by the said Contractor(s) and to forbear or enforce any of the

terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, postponement, or extension being granted to the said Contractor(s) or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

5. This guarantee will not be discharged due to the change in the name, style and constitution of the Bank or the Contractors(s) /supplier(s).

6. We, the…….Bank Limited lastly undertake not to revoke this guarantee during its currency except with the previous consent of OHPC in writing.

Dated the ……day of…….25

Witness with Address

1.

2.

For…….. Bank Limited.

Annexure - 2

NO RELATION C E R T I I C A T E

THIS IS TO CERTIFY THAT I HAVE NO RELATIONSHIP WITH ANY EMPLOYEE SERVING UNDER OHPC LTD, ODISHA. IN CASE THE ABOVE STATEMENT IS FOUND TO BE FALSE, I MAY BE DEBARRED FROM ANY PAYMENT DUE ON ACCOUNT OF THIS CONTRACT.

SIGNATURE OF THE TENDERER

Place:

Annexure - 3

EXPERIENCE CERTIFICATE

PAST HISTORY OF EXECUTION OF SIMILAR TYPE OF WORKS/ ORDERS

(To be filled by the Bidder)

SI. No.	Name of the Customer with Address	Order No. /Dt. with certified copies	Month/Year of Supply.

Signature of the Tenderer With seal

Annexure - 4

(This Proforma should be filled in with all information and should be furnished with tender)

1	Cost of Tender paper	Yes/No
2	Copy of manufacturer's registration certificate in case of manufacturers/Authorized dealership certificate in case of authorized dealers	Yes/ No

3	Earnest Money furnished: Bank draft (details to be mentioned)/BID security declaration form	Yes/No
4	Copies of PAN, GSTIN Registration	Yes/No
5	Proof of eligibility/Order copy	Yes/No
6	Validity 120 days:	Yes/No
7	Nature of Price quoted: "FIRM":	Yes/No
8	Agreeable to terms of payment as mentioned in tender specification	Yes/ No
9	Whether agreeable to furnish security deposit/ composite Bank Guarantee	Yes/No
10	Guarantee/ Warranty as per specification	Yes/No
11	Price bid in separate envelope	Yes/No
12	Whether agreed to all the terms and conditions of the specification:	Yes/No
13	Whether copy of earlier order/ supply to reputed customers attached	Yes/ No
14	Cost of tender through DD/Banker's Cheque submitted	Yes/No
15	Copy of the tender document signed on each page	Yes/No
16	An affidavit by the tenderer that the firm is not blacklisted.	Yes/No
17	Guaranteed technical particulars submitted	Yes/No
18	Deviation(If Any) submitted	Yes/No
19	Type Test results as per relevant IEC/IS of the same rated transformers conducted at Govt./ Govt. recognized labs during last 5 years	Yes/No
20	Whether materials are ISI/ISO marked	Yes/No

SIGNATURE OF TENDERER:

NAME:

DESIGNATION (SEAL):

Annexure-5

A F F I D A V I T

(To be sworn before the Notary Non-Judicial Stamp Paper of Rs. 20/-)

I/We, -(Name of the bidder) a Company incorporated under the provisions of the Indian Companies Act *I* Proprietorship/ Firm registered under Indian Partnership Act/Sole Proprietor having its Registered office/ Corporate Office *I* at _____ and represented through Shree _____ _____ duly authorized person (_____ Designation) hereby solemnly declare & affirm as under:-

1. That we,_____(Name of the bidder) have not been blacklisted/ debarred/ disqualified by any Govt. or any of its agencies or PSUs etc. last three years upto the date of submission of the bid.

DEPONENT

Place:
Date:

VERIFICATION

I/We ,_____(Name of the bidder), the above-named deponent, do hereby verify that the contents of Paragraph -1 of this affidavit is true to my personal knowledge and nothing has been concealed

Verified at _____ this _____ day of _____

DEPONENT

Annexure-6

GUARANTEED TECHNICAL PARTICULARS OF 4MVA 33/11 KV TRANSFORMER
(To be furnished by the Tenderer**)**

Sl. No.	Particulars	Minimum Requirement	Bidders data
1	Name and address of the manufacturer	To be mentioned by the eligible OEM	

2	Service	Outdoor, step down	
3	Applicable standard	IS: 2026 with latest amendments	
4	Rating:		
	a) Rated MVA	4 MVA	
	b) Rated Voltage of HV winding	33 kV	
	c) Rated Voltage of LV winding	11 kV	
	d) Rated Current of HV winding	70 Amp	
	e) Rated Current of LV winding	210.2 Amp	
	f) Insulation Level HV / LV	170 / 75 KVP	
	g) Rated Frequency	50 Hz	
5	Number of phases	3(three)	
6	Type of Cooling	ONAN with radiators	
7	Connections		
	(i) H.V. Winding	Delta	
	(ii) L.V. Winding	Star	
8	Vector Symbol	Dyn11	
9	Tappings		
	(a) Range	-5% to +10% (as per existing TFR) or better	
	(b) Number of steps	Min. 07	
	(c) Variation of voltage in each step (in KV)	0.825 kV (Basing on 07 No taps)	
10	(i) Maximum Temperature rise under normal operating Condition		
	(a) oil (in Degree C)	45^0 C	
	(b) Windings (in Degree C)	50^0 C	
	(ii) Maximum hot spot temperature of Copper windings (in Degree C)	55^0 C	
	(iii) Ambient temperature at Site	20-45° C (Approx.)	

11	(i) Efficiency at normal ratio rated voltage, frequency and 75°C average winding temperature: (a) At full load		
	(i) At unity power factor	> 99.213% or latest IS / IEC standards (i)	
	(ii) At 0.8 factor lagging	(ii)	
	(b) At 3/4 full load (i) At unity power factor	> 99.341% or latest IS / IEC standards	
	(ii) At 0.8 factor lagging	(iii)	
	(c) At 1/2 full load	> 99.43% or latest IS / IEC standards (iv) A	
	(d) At 1/4 full load	> 99.43% or latest IS / IEC standards	
	(ii) Maximum efficiency	> 99.43% or latest IS / IEC standards	
	(iii) Load at which maximum efficiency occurs		
12	No load current at rated voltage and Rated Frequency (in Amps)		
13	No load loss in KW at rated frequency and voltage		
	(a) at Lowest tap		
	(b) at principal tap		
	(c) at highest tap		
14	Load loss in KW at 75 Deg. C. at Rated output and frequency		
	(a) at Lowest tap		
	(b) at principal tap		
	(c) at highest tap		

15	Percentage Regulation at full load at 75 Deg. C.		
	(a) at unity power factor		
	(b) at 0.8 power factor lagging		
16	Impendence volts at rated current for principal tapping	7.64% or better	
17	Maximum current density:		
	a) HV winding	330 Amps/sq cm	
	b) LV winding	330 Amps/sq cm.	
18	With stand time without injury for three phase dead Short circuit at terminal (in seconds)		
19	Short time current rating for short circuit with Duration		
	a) H.V winding (in K Amps)		
	b) L.V winding (in K Amps)		
	c) Duration (in seconds)		
20	Permissible overloading with time		
21	Buchholz relay	As per relevant IS / IEC standard featuring Alarm & Trip contacts.	
22	Temperature Indicators	Calibrated WTI & OTI with Alarm & Trip features / contacts be provided	
23	Oil Level Indicator	To be provided	
24	Core:		
	a) Material of Core lamination	High Permeability CRGO Silicon Steel	
	b) Core Cross Section		
	c) Thickness of core lamination		

	d) Flux Density of core at 100% & 110% of rated voltage		
	e) Location / Method of core grounding		
	e) Insulating of core laminations	Insulation should be as per Relevant IS / IEC standards	
25	Windings:		
	a) Material	Copper	
	b) Insulation	Materials used & class of Insulation should be as per Relevant IS/ IEC standards	
26	Bushings & Terminals type:		
	a) HV Bushings	Overhead & outdoor type bushing with terminals suitable for connection with overhead aluminum conductors using clamps, to be provided on top of the Transformer having minimum distance between bushings as per relevant IS / IEC standards.	
	b) LV Bushings	Bushings with terminals in horizontal position be provided inside a waterproof metalic enclosure attched to the Transformer and having facility for entry of 02 nos. 3Φ XLPE cables (165-185 sq mm each) from the bottom plate of the enclosure. Extended copper Bus bars suitable to hold power cable termination be provided with the LV terminals.	

	c) Neutral Bushing	Overhead and outdoor type bushing with neutral terminal of LV side be provided on top of the Transformer suitable for neutral earthing.	
27	Approximate masses:		
	a) Core and winding		
	b) Oil		
	c) Tank, fittings and accessories		
	d) Un tanking mass		
	e) Transport mass		
	f) Total mass		
28	Transformer oil standard	IS:335 -1983 with latest revision	
29	Approximate overall dimensions:	Should be suitable for mounting on existing RCC foundation base area of 1.9 Mtr (LT & HT side of TFR) x 2.0 Mtr (Other two sides of TFR) & Height: 2.0 Mtr.	
	Existing old Transformer dimensions: a) Length	4400 mm (Approx.)	
	b) Width	2800 mm (Approx.)	
	c) Height	3100 mm (Approx.)	
	d) Rail track gauge	1.32 Mtr.	
30	Foundation bolts / mechanism for wheel locking		
31	Marshalling Box / Terminal Box	Should be provided complete with all features including TBs, connectors, internal wiring, duplicate keys etc.	
32	Paint	Internal and external	

		paintings should be as per relevant CEA guidelines / IS. External shade should be Grey- RAL 7035.	

1. GTP of 4 MVA, 33/11 kV Transformer to be procured is based on existing similar Transformer in service and relevant IS Standards. However, Prospective Bidders be encouraged to Offer improved version Transformer confirming to latest IS/ IEC standards, CEA guidelines and latest industry practices.
2. Design & manufacturing of Tank, Core & Windings, deriving and achieving Regulation and Efficiency at Unity & other Power Factors, Factory & Site level Inspection & Tests of the offered 4 MVA, 33/11 kV Transformer by prospective bidder shall have to be in line with Electricity Regulatory requirements / IS standards and suitable for site usage.
3. Existing area & structure of 33kV Bay including earth pits, oil sump, VCB, CTs, PTs and Overhead 33 kV aluminum conductors are fixed and unalterable. However, minor modification of existing RCC base may be done by OHPC through eligible erection Contractor/ Agency.
4. Prospective bidders, upon award of W.O. should supervise and ensure proper erection, testing & commissioning of the new Transformer for which advance intimation by the OEM Authorized Dealer shall be required to facilitate inspection by OHPC at OEM's factory and at Site in time to avoid any delay.
5. The OEM/ their Authorized Dealer shall provide necessary Drawings, QAP for approval by OHPC and also recommend list of materials and workmanship required for successful Erection, Testing & Commissioning of the new 4 MVA, 33/11 kV Transformer well in advance.
6. Any special tools and testing kits (except Multimeter, IR tester, Ratio Tester, Tan Delta Kit & general working tools) that are required for completion of Testing & Commissioning of the new 4 MVA, 33/11 kV Transformer shall have to be provided by the OEM/ their Authorized Agency at the time of Commissioning.
7. Bidders must ensure compliance with the **Guaranteed Technical Particulars (GTP)**, which shall be considered fina**l** for bid submission. In case of any confusion, bidders are advised to refer to the GTP as the definitive reference while preparing their bids.
8. The new Transformer shall be placed on the existing RCC foundation, ensuring its dimensions match those of the old Transformer.
9. The orientation of the bushings must align with the existing setup to maintain compatibility with the current Bus Bar Position.

SIGNATURE OF THE TENDERER WITH SEAL & DATE

Annexure-7

TENDER CALL NOTICE NO.35/24-25, dated 19/03/2025

DEVIATION FROM SPECIFICATION (TECHNICAL)

Tenderer shall enter below particulars of his alternative proposals for deviations from the specification if any.

Sl. No.	Clause No of Specification	Particulars of Deviations with sufficient justification

SIGNATURE OF THE TENDERER WITH SEAL & DATE

PART-II

PRICE BID

TENDER CALL NOTICE NO. UKHEP: 06/2025-26, dt. 26/05/2025

TENDER SPECIFICATION FOR: -

FOR DESIGN, MANUFACTURING, SUPPLY INCLUDING SUPERVISION OF INSTALLATION, TESTING & COMMISSIONING OF 01 NO 33/11 KV, 4 MVA POWER TRANSFORMER FOR UPPER KOLAB HYDRO ELECTRIC PROJECT, BARINIPUT

C & P Head
UKHEP, Bariniput

SECTION – VI (PRICE BID)

TENDER CALL NOTICE NO.06/25-26, Dated. 26/05/2025

Sl. No.	Description of Item	Specification	Unit	Qty.	Rate per Unit/Basic Rate. in Rs. Including packing, forwarding ,insurance & transport	GST			Rate per Unit including GST & all charges in Rs.	Total Amount including all charges & GST in Rs.
						HSN Code	% age	In Rs.		
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10= (6+9)**	**11=(10X5)**
01	"Design, Manufacturing , Supply of one no of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput with all accessories including transformer oil for 1st filling & 10% extra oil "	as per specification under Section -IV	Nos.	01						
02	Supervision of Installation, Site Testing & Commissioning Charges		Nos.	01						

Total in Rs.

(Rupees.....) only

N.B: The price of the Transformer must include the cost of required quantity of first filling of oil plus 10% extra oil and all accessories as per specification and should not be quoted separately to have uniform price evaluation. The price bid of techno-commercially qualified bidders shall only be evaluated as per the norms applicable in terms of the specification

Declaration; I/We have read and understand the terms & conditions of specification of "Design, Manufacturing, Supply including Supervision of Installation, Testing & Commissioning of one no. of new 4 MVA, 33/11 KV Power Transformer for UKHEP, Bariniput".

SIGNATURE OF THE BIDDER

WITH SEAL