

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD

(An ISO 9001:2008 certified Company)

OFFICE OF SUPRETEENDING ENGINEER (400 KV), HEERAPURA

AJMER ROAD, JAIPUR

TELE (0141) 2250441 FAX (0141) 2250440

FOR Website only

ANNEXURE –C

NOTICE INVITING TENDER

Sealed tender as per our specification is invited from the competent & experienced contractor for **Overhauling of 250 MVA 400/220/33KV Power transformer** under TN-4/10-11

S No.	TN No.	Particular of work	Tender Cost	Earnest Money	Date of Opening
1	04/10-11	Overhauling of 250MVA, 400/220/33 KV, TELK make power transformer ILT-1 & its auxiliaries including supply of Gasket, labour & supervision charges, crane with operator, overhauling of fans, valves, oil pups etc. Overhauling of OLTC including supply of material and colouring of transformer and its accessories.	500/-	49000/-	23/3/11

Copy of the specification (Non- transferable) can be obtained from the office of the SE (400KV) Heerapura by remitting the cost (Non- refundable) as specified above either by cash or by DD in favor of ACCOUNTS OFFICER (TCC-I), RVPN, Jaipur. The tender specification will be sold upto 1:00 PM till 22/3/11. The tender duly filled in will be received upto 2:30 PM on date specified above. And will be opened on the same day at 3:00 PM in presence of those tenderer who choose to be present. Purchase of tender specification is essential for participation in the tender.

Sd/-
Superintending Engineer(400 KV)
RVPN, Heerapura, Jaipur

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ANNEXURE –B

NOTICE INVITING TENDER

Sealed tender as per our specification is invited from the competent & experienced contractor for overhauling of 250 MVA 400/220/33KV power transformer under TN-4/10-11. Detail of cost, specification, EMD etc may be obtained from website www.rajenergy.com or www.rvpn.co.in

Sd/-

Superintending Engineer(400 KV)
RVPN, Heerapura, Jaipur

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD

(An ISO 9001:2008 certified Company)

OFFICE OF SUPERINTENDING ENGINEER (400 KV), HEERAPURA

AJMER ROAD, JAIPUR

TELE (0141) 2250441 FAX (0141) 2250440

No RVPN/SE(400KV)/Sec /F / JPR/ D 2678

Dtd 04/03/2011

The Assistant Public Relation Officer
RVPN
Jaipur

SUB: Publication of Notice for Inviting Tender

A notice inviting tender is being sent herewith in six copies against TN04/10-11 for publication in newspaper as indicated below for wide publicity. The publisher may be for insertion of the matter in one issue and single line space in their newspaper.

1. One Regional newspaper being published from that district. If no such Regional Newspaper is not available in the concern district(s) then this term shall not apply.
2. One state level Newspaper (All Edition) by rotation.
3. One National Level Newspaper (All Edition) by rotation.
4. Indian Trade Journal, Kolkata
5. www.rajenergy.com and www.rvpn.co.in

Copies of the cutting of relevant publication of all the papers may please be sent to this office for records and reverence.

Sd/-
Superintending Engineer(400 KV)
RVPN, Heerapura, Jaipur

Copy submitted/ forwarded to the following for kind information & Necessary action please:

The Secretary(Admn.), RVPN, Jaipur

1. The Director(Tech./ Opns./Fin.), RVPN, Jaipur
2. The Chief Engineer (T&C), RVPN, Jaipur
3. Accounts Officer (TCC-I), RVPN, Heerapura.
4. Notice Board.

Sd/-
Superintending Engineer(400 KV)
RVPN, Heerapura, Jaipur

OVERHAULING OF 250 MVA 400KV/220K/33KV**'TELK' MAKE POWER TRANSFORMER ILT-1****AT 400 KV GSS HEERAPURA, JAIPUR****INDEX**

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RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED
OVERHAULING OF 250 MVA 400KV/220KV/33KV TRANSFORMER

SECTION – I

INSTRUCTIONS TO TENDERERS

1.1 INTRODUCTION:

The tenderer, in his own interest, is requested to read very carefully these instructions and the terms and conditions as incorporated in Section-II, Section-II (A) & Section-III before filling the tender form. If he has any doubts as to the meaning of the specification or any portion thereof, he shall before submitting the tender, at once furnish them to the Superintending Engineer (400 KV), Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Heerapura, Jaipur in writing at least 7(Seven)/15(Fifteen) days before the specified date of opening of tenders in order that such doubts may be removed. The Purchase Officer will respond in writing to such request for clarification on tender documents which should have been received not later than 7(Seven) days for short term tender enquiry/15 (Fifteen) days for normal tender enquiry prior to specified date of technical bid opening after which no correspondence shall be entertained. Submission of the tender shall be deemed to be the conclusive proof of the fact that the tenderer has acquainted himself and is in agreement with all the instructions, terms and conditions governing the specification, unless otherwise specifically indicated/commented by him in the prescribed schedule of deviation to be submitted with his tender.

1.2 FILLING OF TENDERS:

1.2.1 Tenders shall be submitted in the forms attached hereto and all blanks in the tender and the schedules of the specification shall be duly filled in. The completed form(s), schedule(s) shall be considered as part of the contract documents in the case of successful tender(s).

1.2.2 No addition/alternation should be made in the form of the tender specification and schedules. The tenderer must comply entirely with the specification. Technical and Commercial deviations, if any, shall be mentioned only in Schedule-IV "Departure from the Specification" attached with this specification. The deviations mentioned elsewhere in the offer will not be considered as deviations. The printed terms and conditions of firms, if any, attached with the tender will not be considered as part of tender and will be summarily rejected. RVPN reserves the right to accept minor deviations in techno-commercial terms & conditions provided in Schedule IV.

- 1.2.3** The tender and all accompanying documents shall be in Hindi/English Language and shall be signed by authorized person. The name, designation and authority of the signatory shall be stated in the tender.
- 1.2.4** Tenders should be filled in only with ink, ball pen or typed. Tender filled in by pencil or likewise, shall not be considered.
- 1.2.5** All additions, alterations and over-writings in the tender must be clearly authenticated and signed by the signatory to the tender. All cutting / over-writing in figures of tendered documents should also be clearly indicated in the words & duly signed by the authorized signatory.
- 1.2.6** The bidders are required to furnish the clarification / confirmation / documents if sought subsequent to opening of bid within specified time failing which the purchase case shall be decided / awarded on the basis of available information only. The entire responsibility of bid being ignored on account of delay in furnishing of desired information / documents shall be of the bidder.
- 1.2.7** The Purchase Officer will not be responsible to accept any cost involved in the preparation or submission of tenders.
- 1.2.8** The tender / offer shall be furnished in single copy only as prescribed in the following manner:-
- a) One small size envelope duly sealed & superscripted **“EARNEST MONEY AGAINST TN - _____ to be opened on _____”** with proof of depositing the earnest money/furnishing exemption certificate.
 - b) Second envelope sealed & superscripted **“TECHNO-COMMERCIAL BID AGAINST TN - _____ (PART-I) to be opened on _____.”** The tendere is required to furnish all relevant documents, except the Price Schedules, as per Specification including documents in support of qualifying requirement and also confirmation of commercial terms and conditions as incorporated in GCC (General Conditions of Contract) and SCC (Special Conditions of Contract) and their addendum/corrigendum, if any, along with details required in various schedules **“EXCEPT THE PRICE SCHEDULE”** so that the Purchase Officer may be able to examine whether the offer submitted is meeting the requirements of the technical and commercial terms and conditions of specification.
 - c) Third envelope sealed & superscripted **“PRICE BID AGAINST TN - _____ (PART-II) ”**. This price bid shall include submission of details of prices as per Schedule-I to Schedule-IC of the specification. The price bid will be opened at a later date in respect of those tenderers whose offers are found/adjudged technically and commercially acceptable. The date of opening of **“PRICE BID”** shall be intimated to successful/qualified tenderers in due course of

time. Deviation of any kind shall not be quoted in price bid. If found quoted, the same shall be ignored.

- d) All the three envelopes containing earnest money, techno-commercial bid and price bid as stated above should be put in the fourth big size envelope and sealed and shall be superscripted **“TENDER OFFER AGAINST TN- _____ TO BE OPENED ON _____”** and shall be sent at the following address:

The Superintending Engineer (400 KV),
Rajasthan Rajya Vidyut Prasaran Nigam Ltd.,
Heerapua ,
JAIPUR – 302006 (Raj.)

- e) The tenderer shall also ensure that his tender is furnished/ submitted strictly in the manner detailed in the specification.

1.2.9 All tenders and accompanying document should be addressed to the Superintending Engineer (400 KV), Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Heerapura, JAIPUR – 302006 (Raj.).

1.2.10 Tenderers shall indicate in their bid the name and complete address of excise authorities under whose jurisdiction their office falls.

1.2.11 Telegraphic tenders/quotations or tender given in the form other than prescribed form will not be considered.

1.3 EARNEST MONEY:

1.3.1 Before submitting the offer, the tenderer shall deposit an amount of Rs. _____ as Earnest Money with the Accounts Officer (TCC I), RVPN, Heerapura, Jaipur either in cash or by crossed Bank Draft Payable in the name of Accounts Officer (TCC I), RVPN, Jaipur and obtain a receipt thereof. No other mode of deposit shall be accepted. Earnest money amount upto Rs. 20,000/- only may be deposited in cash. Earnest money amounts exceeding Rs. 20,000/- shall be accepted through demand draft only.

1.3.2 Any tender not accompanied by a copy of the receipt for depositing Earnest Money in cash/crossed Bank Draft or certificate stating that the tenderer is a Central/State Government Undertaking/ Corporation/Company shall be rejected and the tender will not be opened.

1.3.3 In case of unsuccessful tenderers, the Earnest Money will be refundable on production of the original receipt within a fortnight after finalization of the tender. In case of successful tenderers, the Earnest Money will be adjusted in arriving at the amount of the Security Deposit referred in the General Conditions of Contract on the request of the firm and the remaining security deposit, if any, would have to be furnished either in

cash or in the form of bank guarantee. (If BG is furnished for full amount of Security Deposit, EMD shall be refunded).

1.3.4 Request for adjustments/proposals for acceptance of Earnest Money deposit (if any) already lying with the RVPN in connection with some other tenders/orders shall not be entertained.

1.3.5 No interest shall be payable on such Deposits.

1.3.6 The Purchase Authority reserves the right to forfeit Earnest Money Deposit in circumstances which, according to him, indicate that the tenderer is not earnest in accepting/executing any order placed under the specification.

1.3.7 The following categories of tenderers are exempted from payment of earnest money:

a) Central/State Government Undertaking/Corporation/Company.

1.4 RECEIPT AND OPENING OF TENDERS:

1.4.1 Sealed covers in which the tenders are enclosed shall be delivered in the office of the Superintending Engineer (400 KV), Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Heerapura, JAIPUR – 302006 (Raj.) not later than 2:30 PM Indian Standard Time (unless otherwise specified) on the date specified in the notice inviting the tender. Tenders shall not be accepted after the time and date fixed for receipt of tenders. The tenders (Techno-Commercial bid) will be opened in the office of the Superintending Engineer (400 KV), Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Heerapura, JAIPUR – 302006 (Raj.) at 3:00 PM Indian Standard Time on the prescribed date in the presence of such tenderers or their authorized representative who choose to be present.

1.4.2 Should the date fixed for receipt & opening of the tenders be declared as a public holiday, the tenders shall be received and opened on the day on which office re-opens after such holiday(s) at the time as indicated above.

1.5 VALIDITY OF OFFERS:

Tenders shall be valid for a minimum period of 120 days from the date of opening of Techno-Commercial bids. Tenders mentioning a shorter validity period than specified are likely to be ignored.

1.6 SIGNATURE OF TENDERER:

The tender must contain the name, designation and place of business of the person or persons making the tender and must be signed and sealed by the tenderer with his usual signatures. Tender by a partnership firm must be furnished with the full names of all the partners and should be signed with the partner's name by one of the members of partnership or by an authorized representative indicating the signatures and designations of the person or persons signed with the

legal entity of the Corporation/Companies by the Chairman or by the Secretary or by other person or persons authorized to bind the Corporation/Company in the matter. The tenderer should sign the tender form at the end of each page.

1.7 QUALIFYING REQUIREMENTS:

1.7.1 EXPERIENCE CRITERIA:

- a) Only such bidders should apply who are already registered with the Provident Fund Commissioner. Notarized copy of certificate in this respect is also to be furnished.
- b) The Bidder should have successfully overhauled of 250 MVA 400KV/220KV/33KV or above these rating transformers during last five year.
- c) For meeting this qualifying criteria/requirement, the work done by only one or some of the units/division of a company/firm shall be counted. However, if some units/divisions are transferred/ taken over/ acquired by another company/firm, then the work done by such units/divisions shall not be counted as experience of the acquiring company/firm. Experience of Engineer(s) engaged by the firm (as per sub clause (a) and (b) above) shall be taken into account in determining the bidder's compliance with the qualifying criteria. If two companies are merged together, then the experience of the taken over company will be considered towards qualifying requirement of acquiring company. In case of partnership firms, if complete firm is merged into other firm, then the experience of merged firm may be counted towards experience of acquiring firm. If any partnership is dissolved and one or two partners join another company and remaining partners make a separate company then the experience of acquired or acquiring company will not be considered.

1.7.2 TECHNICAL CRITERIA (EQUIPMENT AND PERSONNEL CAPABILITIES):

- a) The Contractor shall own sufficient testing equipments as per the schedule.
- b) The testing equipments shall be got calibrated from a Govt./ Govt. approved/ NABL accredited laboratory. The calibration certificates shall not be older than one year on the date of testing.
- c) The bidder should have in his employment experienced staff who have adequate knowledge and are well versed in installation, testing and commissioning of transformer.
- d) The bidder shall have sufficient working team(s) comprising of one Engineer and suitable skilled staff in his employment and have sufficient T & P.

1.7.3 QUALIFYING REQUIREMENTS FOR INDIVIDUAL BIDDER:

The Individual bidders must fulfill strictly the Experience and Technical requirements as per Clause No. 1.7.1 and 1.7.2.

1.7.4 QUALIFYING REQUIREMENTS FOR JOINT VENTURE:

Joint venture of two firms (maximum) fulfilling the following minimum qualifying requirements as per Clause No. 1.7.1 and 1.7.2 above can also participate in the bid provided that:

- a) Any one or both the partners taken together must fulfill strictly the Experience and Technical requirements as per Clause No. 1.7.1 and 1.7.2.
- b) Any one of these partners can be the lead partner.
- c) Failure to comply with the above requirements by the joint venture partners as a whole will result in rejection of the joint venture's bid.
- d) Bids submitted by a Joint venture of firms as partners shall comply with following requirements in addition to all information listed above.
 - i) The authorization of the Lead Partner shall be evidenced by submitting a power of attorney signed by legally authorized signatories of both the partners.
 - ii) A copy of the agreement entered into by the Joint Venture partners on the requisite stamp paper shall be submitted with the bid in original or duly attested by a Notary Public.
 - iii) The bid may be signed by the lead partner of the joint venture and in case of successful bid, the Form of J. V. Agreement shall be signed by both the partners so as to be legally binding on the partners.
 - iv) The lead partner shall be authorized to incur liabilities and receive instructions for and on behalf of both partners of the joint venture and the dealing for the entire execution of the contract including payment shall be done exclusively with the lead partner.
 - v) Both partners of the joint venture shall be liable jointly and severally for the execution of the contract in accordance with the contract terms and a statement to this effect shall be included in the authorization mentioned under (d) above as well as in the Bid Form and in the form of agreement (in case of successful bid).
 - vi) EMD, security deposit and performance guarantee of a joint venture shall be in the name of lead partner or in the name of the joint venture firm submitting the bid.

1.7.5 FINANCIAL CRITERIA

- a) For meeting this financial criteria/requirement, the turnover by only one or some of the units/division of a company/firm shall be counted.

However, if some units/divisions are transferred/ taken over/ acquired by another company/firm, then the turnover of such units/divisions shall not be counted as turnover of the acquiring company/firm. If two companies are merged together, then the turnover of the taken over company will be considered towards qualifying requirement of acquiring company. In case of partnership firms, if complete firm is merged into other firm, then the turnover of merged firm may be counted towards turnover of acquiring firm. If any partnership is dissolved and one or two partners join another company and remaining partners make a separate company then the turnover of acquired or acquiring company will not be considered.

- b) Turnover of firm Should not be less than Rs 3.5 crore during last 2 Financial year . Kindly enclosed the last 2 audited balance sheet as proof.

1.7.6 SUPPORTING DOCUMENTS EVIDENCING CAPABILITIES:

- a) To be qualified for award, bidder/joint venture shall provide satisfactory evidence to the owner towards their capacity and adequacy of resources to implement the contract effectively.
- b) The Bidder shall furnish documentary evidence in support of his experience in the form of a certificate issued by User(s)/ Purchaser(s) containing the details of testing and commissioning and/or carrying out work of overhauling of transformer mentioned at clause 1.7.1 and 1.7.2 above with their voltage class. This certificate shall be furnished either in original or copy duly attested by a Notary Public.
- c) In case the Bidder, as a Firm, does not have the above experience but an Engineer employed by him (who will be assigned this task in case an order is placed on the Firm) possesses the above experience, documentary evidence shall be furnished as below.
- i) In the form of a certificate from the earlier employer where the Engineer(s) was/were employed, or
- ii) In case of an employee of a Transmission/Power Utility in which the system voltage exceeds 132 kV, in the form of certificate of above experience in the Utility issued by an Officer of the rank of Chief Engineer/General Manager or equivalent.

In case of retired/Ex-Engineers of RVPN, the requirement of certificate may be waived in case copies of his postings in RVPN are enclosed but they must fulfill the experience criteria as per clause 1.7.1.

- d) Bids shall include the following documents/information:

- i) Notarized copies of Purchase orders, work orders, commissioning certificates, taking over certificates from the user(s)/owner(s) shall also be acceptable for technical criteria.
- ii) Authority to seek reference from the bidder's banks.
- iii) Information regarding any current litigation in which the bidder is involved, the parties concerned and disputed amount.
- iv) The bidder shall required to submitted documentary evidence in support of financial criteria in the form of audited balance sheet with ITR for FY 2008-2009 and 2009-2010 with ITR.
- e) The bidder shall be required to submit the plan/schedule for carrying out the work.

1.7.7 DISQUALIFICATION CRITERIA:

- a) Even though the bidders may meet the above qualifying criteria, they are subject to be disqualified if they have:
 - i) Made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirements, and/or
 - ii) A record of poor performance such as incompleteness/inordinate delays in completing the earlier contract(s) awarded by RVPN, litigation history, etc.
- b) A bidder can submit only one tender in this tender enquiry either individually or as a partner/lead partner of a joint venture. In case any bidder furnishes more than one tender in this tender enquiry either individually or as a partner/lead partner of a joint venture, then all such multiple bids are liable to be rejected.

1.8 PRICES:

1.8.1 Tenderer must quote their prices in the price schedule. These prices shall be firm for the duration of the contract, i.e., till the completion of work . These prices shall also be valid irrespective of nature of location/site of the Sub Stations. Any representation from successful tenderer for enhancement of rates and deviation in terms & conditions once accepted within the validity period of his offer shall not be considered.

1.8.2 The bidder shall quote the prices exclusive of service tax.

1.8.3 The prices quoted should be inclusive of cost of transportation of the Contractor's staff, RVPN Representative and the testing equipments to and from the Sub Station. RVPN shall not make any separate payment to the Contractor on this account.

- 1.8.4** The offer of the bidder quoting Variable Prices for the work are likely to be ignored.
- 1.8.5** The rates/prices shall be quoted in the manner as desired in the Schedule-IA to Schedule-IC (Schedule of prices).
- 1.8.6** Any tender containing prices not quoted in the manner prescribed under the above sub clauses is liable to be ignored.
- 1.8.7** No representation from successful tenderer for enhancement of rates or deviation in terms & conditions once accepted within the validity period of his offer will be considered.
- 1.8.8** If on check, there are differences between the rate quoted by the tenderer, in words and figures, or in the amount worked out by him, the following procedure shall be followed:
- a) Where there is a difference between the rates in figures and words, the lower of the two rates shall be taken as valid and correct rate.
 - b) When the rates quoted by the tenderer in figures and in words tallies, but the amount is not worked out correctly, the rate quoted by the tenderer shall be taken as correct and not the amount worked out.

1.9 TAXES:

1.9.1 Sales Tax, Levies & Duties:

In accordance with the scope of supply and works, hence VAT is leviable on supply part only and is extra. Any statutory variation in service tax will be on Nigam's accounts. Contractor should clearly mention the amount separately where VAT is applicable. However, tax on such labour contracts, if levied, shall be to the Contractor's account.

1.9.2 Service Tax:

The service tax is applicable on the services provided in respect of testing works. The tenderer shall quote the prices exclusive of applicable service tax. Any statutory variation in service tax will be on Nigam's accounts. Contractor should clearly mention the amount separately where Service Tax is applicable.

1.9.3 Works Contract Tax:

The works contract tax will be deducted as per the applicable Laws on the value of testing activities. Any liability arising on account of works contract tax will be to the Contractor's account. Any statutory variation in the works contract tax will be to the Contractor's accounts.

1.9.4 Income Tax:

If any income tax, surcharge on income tax or any other corporate tax is attracted under the law, then the same shall be paid by the Contractor as per Government rules/shall be deducted from his bills/

invoices at the prevailing rate and if such tax is not applicable, then the Contractor can claim reimbursement of the same from the relevant competent authority. For this purpose, necessary TDS certificate(s) shall be issued by Nigam's paying Authority.

1.9.5 Building and other Construction workers Welfare Cess Act 1996:

All Contracts/ Contractors with the Government shall require registration of workers under the Building & Other Construction Workers (Regulation of Employment & Condition of service) Act,1996 and extension of benefit of such workers under the Act. Deduction of CESS at source will be made as per provision of the said Act, inforce from time to time.

1.10 QUANTITIES:

1.10.1 The quantum of work indicated in the accompanied schedule(s) is only provisional and the Purchase Authority reserves the right of revising the same at the time of placing the order. The Purchase Authority also reserves the right to drop the tender enquiry or entrust only part work of a particular Circle.

1.10.2 The NIGAM also reserves the right to split the quantities and to entrust the order for the work to one or more Contractors. The tenderer shall agree to accept part works ordered on him at the rates/prices mentioned in his tender and/or accepted by the Purchase Authority.

1.11 COMPLETION TIME:

1.11.1 The work mentioned in Schedule-I is required to be carried out within a period of 30 Days. This targeted completion period is inclusive of monsoon period.

1.11.2 The commencement of completion period shall be counted after one month from the date of issue of Work order.

1.12 AMENDMENT IN SPECIFICATIONS:

The Superintending Engineer (400 KV), RVPN, Heerapura, Jaipur may revise or amend the specifications and timings for bid opening prior to the date notified for opening of the tenders. Such revision or amendment, if any, will be communicated to all the tenderers as amendment or addenda to this invitation of the tender.

1.13 GENERAL:

1.13.1 Purchase of a copy of the specifications by the tenderer is essential for the consideration of his tender. Only one tender will be accepted against each copy of the specification purchased. This specification is not transferable. The value of tender form once sold will not be refunded under any circumstances.

1.13.2 The tenderer shall treat the details of the specification and other tender documents as private and confidential and these shall not be reproduced without the written authorization of the purchaser.

1.13.3 The Purchaser does not bind himself to accept the lowest or any tender or any part of the tender and shall not assign any reason(s) for the rejection of any tender or a part thereof.

1.13.4 Modification and Withdrawal of Bids:

- a) The fact of submission of tender to the Purchaser shall be deemed to constitute an agreement between the Tenderer & the Purchaser whereby such tender shall remain open for acceptance by the Purchaser and Tenderer shall not have option to withdraw his bid or impair or derogate the same after its submission.
- b) The bidder may modify his price bid on lower side after the bid's submission provided that written notice of the modification is received by the Purchase Officer prior to the deadline prescribed for submission/opening of techno-commercial bid.
- c) In case bidder modifies the price bid after bid submission and prior to the dead line prescribed for bid submission/opening of techno-commercial bid, then the original bid shall not be returned and both the price bids (original & modified) of the qualified bidder shall be opened. The bidder is allowed only to reduce as lump sum amount or percentage below originally quoted rates.
- d) The bidder's modification notice shall be prepared, sealed, duly marked as **"Modified Bid"** and dispatched in accordance with the provisions of Clause 1.2.
- e) No price bid may be modified subsequent to the dead line for submission/opening of techno-commercial bid.
- f) Withdrawal of bid after its submission and modification of a price bid after opening of the techno-commercial bid & during validity period of the bid may result in the rejection of the bid and bidder may also be debarred from submission of tenders to RVPN at least for one year besides forfeiting his earnest money deposit.
- g) If the tenderer is notified during the period of validity of tender that his bid/tender is accepted by the Purchaser, he shall be bound by the terms of agreement constituted by his tender and such acceptance thereof by the Purchaser until formal contract of the same tender has been executed between him and Purchaser in replacement of such agreement.

1.13.5 The tenders not containing the documents in support of qualifying requirement, confirmation on commercial terms & conditions, guaranteed technical particulars & drawings (if required) as per Section-III in terms of above clauses are liable to be rejected.

1.14 Contract Agreement:

1.14.1 The successful tenderer shall have to execute the contract documents/ agreement for the proper fulfillment of the contract. He shall furnish such executed stamped agreement (in triplicate) free of charge at his cost to the purchaser as per Clause No. 22 of GCC.

1.14.2 The payment shall be made on completion of contractual formalities and no Running Account Bills will be acceptable.

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD.
OVERHAULING OF 250 MVA 400KV/220KV/33KV TRANSFORMER

SECTION – II

GENERAL CONDITIONS OF CONTRACT (GCC)

Notwithstanding anything contained to the contrary in the specification or tender or any subsequent exchange of correspondences, these General Conditions of Contract shall prevail and shall be binding on the Contractor and any change or variation expressed or impressed howsoever made shall be inoperative, unless expressly sanctioned by the NIGAM. The Contractor shall be deemed to have fully informed himself and to have specific knowledge of the provisions of the General Conditions of Contract mentioned hereunder.

1. DEFINITION OF TERMS:

In constructing these general conditions and the annexed specification, the following words shall have the meaning herein assigned to them unless there is anything in the subject or context inconsistent with such construction.

- a) The "NIGAM" shall mean the RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD. represented by Chairman & Managing Director and shall include their legal personal, representative, successors and assignees. The words "NIGAM", Owner or Customer shall mean the "NIGAM".
- b) The "Tenderer" shall mean and include one or more persons or any firm or any Company or Body incorporate who has submitted the Tender in response to "Invitation of Tender".
- c) The "Contractor" shall mean the Tenderer whose tender has been accepted by the NIGAM and shall include the Tenderer's heirs, legal representative, successors and assignees approved by the NIGAM.
- d) The "CMD" shall mean the Chairman & Managing Director, RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD., JAIPUR.
- e) The "Engineer" shall mean the Chief Engineer, RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD. or other Engineer or officer for the time being or from time to time duly authorised and appointed in writing by the NIGAM to act as Engineer or Inspector for the purpose of the contract. In case where such Engineer has been so appointed, the word "Engineer" shall mean the NIGAM or his duly authorised representative.
- f) "Plant", "Equipment", "Materials", "Stores", "Works", mean to include the plant and materials to be provided and work or works to be done by the Contractor under the Contract.
- g) The "CONTRACT" SHALL MEAN AND INCLUDE THE FOLLOWING:
 1. Invitation of Tender.

2. Instructions to tenders.
 3. Tender Form including schedule of prices.
 4. Earnest money receipt/Security bank guarantee.
 5. Letter of Intent and its acknowledgement.
 6. Performance Guarantee.
 7. Formal work order.
 8. Guaranteed test performance and penalty.
 9. General Conditions of Contract (GCC).
 10. Special Conditions of Contract (SCC)/Special instructions.
 11. Site conditions.
 12. Specification, specific conditions, schedules and drawings.
 13. Addenda which may hereafter be issued by the NIGAM to the Contractor in the form of letter and covering letters and schedule of prices as agreed between the Contractor and the NIGAM.
 14. The Agreement to be entered into under Clause 2 of these General Conditions.
- h) The "Specification" shall mean the specification, specific conditions annexed to the General Conditions of the Contract and the schedule thereto, if any.
- i) The month shall mean English calendar month, i.e., a period of 30 days, and week shall mean a period of 7 days.
- j) The "Site" shall mean the Sub Station or place or places named in the Contract and include, where applicable, the lands and buildings upon or in which the works are to be executed.
- k) The "Place of Work" shall mean the Sub Station at which the Contractor is responsible for carry out work.
- l) The "Test of completion" shall mean such tests as are prescribed in the contract to be made by the Contractor before the work is considered as completed by the NIGAM as per the General Conditions of Contract.
- m) "Letter of Intent" shall mean the NIGAM's letter conveying his acceptance of the tender subject to such reservations as may have been stated therein.
- n) The "Contract price" shall mean the sum named in or calculated in accordance with the provisions of the Contract/work order or any amendments thereto.
- o) The "Engineer in Charge" shall mean and include the Assistant Engineer (Protection) and or any other officer/official of the RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD. all over Rajasthan, performing the duties of the Engineer in Charge.
- p) The "Work in Charge" shall mean and include the Executive Engineer (Protection) and or any other officer/official of the RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD. all over Rajasthan, performing the duties of the Work in Charge.

- q) "Writing" shall include any manuscript, type written or printed statement under or over signature or seal as the case may be.
- r) The Word "Codes" shall mean and include the Indian Electricity Rules, IS Code of Practice and Factory Rules and Regulations applicable in the State of Rajasthan on the date of issue of the letter of intent of such modifications thereof as may be specially stipulated by competent State authorities, i.e., Electrical Inspector and Chief Inspector of Factories, Rajasthan.
- s) Words imparting the singular only shall also include the plural and vice versa where the context requires.

2. CONTRACT:

The Contractor and NIGAM shall as soon as possible, unless otherwise agreed upon, enter into a sealed agreement for the proper fulfillment of the contract. The expenses of completing and stamping the agreement shall be paid by the Contractor, and the NIGAM shall be furnished free of charge with an executed stamped counter part of the agreement after the tender has been accepted by the NIGAM. All orders/ instructions to the Contractor shall, except as herein otherwise provided, be given by the Engineer on behalf of the NIGAM.

3. SUBLETTING AND ASSIGNMENT:

The Contractor shall not sublet, transfer or assign the contract, or any part thereof, interest therein or benefit or advantage whatsoever.

4. SECURITY DEPOSIT:

- a) In order to secure/assure the fulfillment of the contract, the successful tenderer(s), upon receipt of preliminary acceptance letter/detailed purchase order, as the case may be, shall furnish within a period of 15 days a security deposit amount equivalent to 5% (Five percent) of the contract value in cash or by crossed Bank Draft or by way of Bank Guarantee from the scheduled Bank, in the prescribed proforma to be obtained from the NIGAM, on a Non judicial stamp paper of Rs. 100.00 of Rajasthan State duly authenticated by a 1st Class Magistrate or notary public or directly confirmed by the issuing Banker. Such Bank Guarantee shall be valid equal to a period of 12 months from the date of completion of the overhauling work (i.e., upto the last day of the calendar month) and, if required by the NIGAM, the validity of the Bank guarantee shall be further extended for such period as desired. The B.G. is to be furnished in whole Rupees.
- b) Unless otherwise specifically required to be retained/forfeited by the NIGAM, the Security deposit shall be refunded on request of the Contractor after three months on completion of the entire work to the satisfaction of the NIGAM.
- c) If the Contractor fails or neglects to observe or perform any of his obligation under the contract, it will be lawful for the NIGAM to forfeit

either in whole or in part at his absolute discretion, the Security deposit furnished by the Contractor.

- d) No interest shall be payable on such deposits. Bank charges or any other charges, if any, shall be to the Contractor's account. If the Contractor fails to provide the Security within the period specified, such failure shall constitute a breach of the Contract and the NIGAM shall be entitled to make other arrangements at the risk and expenses of the Contractor and the Earnest money deposited by the Contractor shall stand forfeited to the NIGAM.

5. SALES TAX, LEVIES & DUTIES:

a) **Sales Tax:**

In accordance with the scope of supply and works, hence VAT is leviable on supply part only and is extra. Any statutory variation in service tax will be on Nigam's accounts. Contractor should clearly mention the amount separately where VAT is applicable. However, tax on such labour contracts, if levied, shall be to the Contractor's account

b) **Service Tax:**

The service tax is applicable on the services provided in respect of testing works. The tenderer shall quote the prices exclusive of applicable service tax. Any statutory variation in service tax will be on Nigam's accounts. Contractor should clearly mention the amount separately where Service Tax is applicable.

c) **Works Contract Tax:**

The works contract tax will be deducted at the applicable Laws on the value of testing activities. Any liability arising on account of works contract tax will be to the Contractor's account. Any statutory variation in the work contract tax will be to the Contractor's accounts.

d) **Income Tax:**

If any income tax, surcharge on income tax or any other corporate tax is attracted under the law then the same shall be paid by the contractor as per Government rules/deducted from his bills/ invoices at the prevailing rate and if such tax is not applicable, then the Contractor can claim reimbursement of the same from the relevant competent authority. For this purpose, necessary TDS certificate(s) shall be issued by Nigam's paying Authority.

e) **Building and other Construction workers Welfare Cess Act 1996:**

All Contracts/ Contractors with the Government shall require registration of workers under the Building & Other Construction Workers (Regulation of Employment & Condition of service) Act,1996 and extension of benefit of such workers under the Act. Deduction of CESS at source will be made as per provision of the said Act, in force from time to time.

6. COMPLETION TIME:

- a) The completion time shall be governed by clause No. 1.11 of Section-I.
- b) The NIGAM reserves the right to defer the completion period as indicated in the work order. The period during which the works have been so deferred shall not be reckoned as delay in completion in terms of clause "Delay in completion".

7. DELAY IN COMPLETION:

- a) The time for and the date of completion specified in the work order shall be deemed to be essence of the contract and the work shall have to be completed not later than the period specified therein. Should the Contractor fail to complete the work or any part thereof within the specified completion period, the NIGAM shall be entitled at his option,
 - (i) To recover from the Contractor, 1% (one percent) per week for the first week and 1.5% (one and half percent) per week and part there of, for the remaining period of delay (for unexecuted works) subject to a maximum of 15% (fifteen percent).
 - (ii) To cancel the contract and if so desired to get completed the testing works by other agencies at the risk & cost of the Contractor.
 - (iii) After completion of the work the Assistant Engineer (Maintenance) in charge of the works shall submit to the XEN (400 KV), Jaipur the detailed report indicating the delay in execution of the work activity-wise on weekly basis Which shall further be decided by the SE (400KV), Heerapura, Jaipur

8. TERMS OF PAYMENT:

Payment for the work will be made to the Contractor on submission of bills in accordance with the procedure as detailed below.

- a) 90% (Ninety percent) payment of the total value of the works will be paid against bills to be submitted to the Executive Engineer (400KV) in charge of the work.
- b) Balance 10% payment will be made within 3 months after the work is completed and accepted by the Engineer in charge. The payment will be made only after a material account statement of items received and used or returned to stores is settled. Any discrepancy in the quantity will have to be made good by the Contractor or deduction of its cost at double the issue rate applicable at the time of issue of material will be made while settling the balance payment.
- c) If a firm executing any work for RVPN obtains finance from bank by way of discounting of the bills, in such cases RVPN shall not at all be responsible for arranging payments to banks nor shall RVPN bear any

liability towards the bank in such cases. This is to safeguard interest of the NIGAM against the firms taking advantage of bank finance.

- d) The payment of the running bills up to the work order value will be released without limiting to the individual item quantity.
- e) Deductions in respect of deficiencies, etc. will be made by the Executive Engineer (400KV) in charge while passing/verifying the bills and this shall be simultaneously conveyed to the Contractor.

9. MODE OF PAYMENT:

- a) Bills for 90% value of the work be submitted to the XEN (400 KV) in charge of the works at the end of work , who will in turn process the same and forward it to the SE (400KV) in charge of the works for countersignatures and finally to the Accounts Officer (TCC I) for payment. These bills shall be serially numbered with the suffix T-1.
- b) Security Refund Bill for 10% value of the work done as per clause 8 shall be prepared by the XEN (400 KV) in charge of the works 12 months after completion of the work under the contract. This bill shall be forwarded to the SE (400 KV) in charge of the works for countersignatures and finally to the Accounts Officer (TCC I) for payment.
- c) The payment shall be made by the Accounts Officer (TCC -) as per prevailing payment policy of RVPN after receipt of the complete document and completion of all contractual formalities as per requirement of the work order.
- e) The payment shall be made up to order value irrespective of individual item quantities appearing in the price schedules.

10. INSPECTION BY NIGAM'S REPRESENTATIVE:

- a) The Executive Engineer (400KV) in charge of the works or his representative will always be present during the work as and when required as per the pre-determined testing schedule. The representative will give the clearance for carrying out the work.
- b) In case of work involving shutdown, the RVPN representative shall apply for the shutdown and obtain the Permit to Work (PTW). The work shall be started only after clearance is given by the RVPN representative.

11. GUARANTEE:

The testing work will be covered under a guarantee against any defect in or damage to the equipment caused due to error or mishandling or bad workmanship on the part of the Contractor. The cost, as decided by the Chief Engineer (T&C), RVPN, Jaipur, of repair/replacement as a result of any defect or damage to the equipment caused due to error or mishandling or bad workmanship on the part of the Contractor shall be

made good by the Contractor. In case of default in such payment by the Contractor, the cost shall be recovered from this guarantee.

12. MODE OF GUARANTEE:

- a) In order to ensure compliance of the provisions contained in Clause No. 11 above, the successful Contractor shall be required to furnish a guarantee, after issue of work order and before claiming any payment, from any scheduled bank for an amount equivalent to 10% of the contract value on Non judicial stamp paper of Rs. 100.00 either duly authenticated by a first class Magistrate or Notary Public or directly confirmed by the Issuing Bankers.
- b) Such guarantee shall be valid initially for a period of 15 months and shall be extended for the period of 3 months from the date of expected completion of the work in the contract. The Contractor shall have to extend the validity period of the Bank guarantee, if required on intimation from the purchaser. Such Bank guarantee should remain valid upto the last day of the calendar month and shall be furnished in whole rupees.

13. METHOD OF MEASUREMENT:

- a) As order for single work is placed hence completion of this will be measurement of the work.

14. LABOUR LAWS:

a) **LABOUR LICENSE:**

The Contractor shall maintain a valid labour license under the Contract Labour (Regulation & Abolition Act) for employing necessary manpower required by him. In the absence of such license, the contract shall be liable to be terminated without assigning any reasons thereof.

b) **EMPLOYEES PROVIDENT FUNDS:**

The Contractor shall have to submit a certificate every month that his is an establishment covered under the Employees Provident Fund and Miscellaneous Provisions Act, 1952 and is having a separate code number with the Provident Fund Commissioner and also that the Provident Fund contribution in respect of all the employees employed by him alongwith employer's share of contribution, etc. is being deposited with the Provident Fund authorities and shall also submit certified photo copies of the challans of deposits for the previous month alongwith each running account bill. In the absence of the above, the Contractor shall be liable to deposit with RVPN the employees' as well as Employer's contribution and other charges in respect of all the employees engaged by him for the said work alongwith details of the employees, their wages and the amount of contribution as per RVPN CPF Rules every month. In case of failure to

do so, RVPN shall be entitled to deduct 16% of the amount of work done from his bills.

c) **CONTRACTOR TO INDEMNIFY THE NIGAM:**

The Contractor shall indemnify the NIGAM and every member, officer and employee of the NIGAM, also Engineer in charge and his staff against all actions proceedings, claims, demands, costs and expenses whatsoever, arising out of or in connection with the matters referred herein above or elsewhere and against all actions, proceedings, claims, demands, costs and expenses which may be made against the NIGAM or Govt. for or in respect of performance of his obligation under the contract documents. The NIGAM shall not be liable for or in respect of or in consequence of any accident or injury to any workman or any other person in the employment of the Contractor, and the Contractor shall indemnify and keep indemnified the NIGAM against all claims, demands, proceedings, cost, charge and expenses whatsoever in respect thereof or in relation thereto.

15. CLIMATIC AND ISOCERINIC CONDITIONS:

The Contractor shall be required to execute the work in the tropical conditions such as high temperature, excessive humidity, dust and salt-laden atmosphere as detailed below.

- | | |
|---|--------------------|
| a) Maximum ambient air temperature in shade | 50 deg.C |
| b) Minimum temperature of air in shade | 0 deg.C |
| c) Maximum relative humidity | 90% |
| d) Minimum relative humidity | 10% |
| e) Height above Mean sea level | Upto 530 meters |
| f) Dust storms are liable to occur during the period | from March to July |
| g) Average no. of thunder storm days per annum | 25 |
| h) Average no. of tropical monsoon(condition) per annum | 4 months |
| i) Average Rainfall | 10 cm to 100 cm |

16. WORKMANSHIP:

All the work executed shall be of best quality and technical expertise. The entire work shall be in accordance with the best modern Engineering practices.

17. INDIAN ELECTRICITY ACT:

All the works covered by the Contract shall be in accordance with the Electricity Act, 2003 with the latest amendments and the Electricity Rules made thereunder.

18. OTHER TESTS:

The NIGAM reserves the right to carry out any other tests he may decide upon at his own expenses in case the results of the testing work by the

Contractor are not found satisfactory. All expenses incurred during such testing will be to the Contractor's account.

19. CHANGE OF NAME OF THE TENDERER/CONTRACTOR:

- a) At any stage after tendering, the NIGAM shall deal with the Contractor only in the name and at the address under which he has submitted the tender. All the liabilities/responsibilities for due execution of the Contract shall be that of the Contractor and in no circumstances, he shall be relieved of any obligations under the Contract. The NIGAM may, however, at his discretion deal with the Agents/ Representatives/ Distributors/ Manufacturers/Associates/ Principals/Sister concerns and such dealings shall not absolve the Contractor from his responsibilities/obligations/liabilities to the NIGAM under the contract.
- b) Any change/alteration of name/Constitution/Organisation of the Contractor shall be duly notified to the NIGAM and the NIGAM reserves the right to determine the Contract, in case of any such Notification. In the event of such determination, the Nigam may get the work executed from elsewhere at the risk and cost of the Contractor.

20. DEDUCTION FROM CONTRACT PRICES:

The amount of all costs, damages or expenses or other sums which under a particular Contract shall be payable by the Contractor to the NIGAM shall be deducted by the NIGAM from the amount due or becoming due by him to the Contractor under the state or any other Contract without prejudice to the NIGAM's right to recover the same by ordinary process of law.

21. BANKRUPTCY:

If the Contractor shall commit any act of bankruptcy or being a Corporation commence to be wound up except for reconstruction purpose of carrying on its business under a Receiver, the Executors, Successors or other representatives in law of the Contractor or any such Receiver, Liquidator or any person in whom the Contract may become vested, shall forthwith give notice thereof in writing to the NIGAM and shall for one month during which he shall take all reasonable steps responsible to prevent stoppage of the works, have the option of carrying out the Contract subject to his or their providing such guarantee as may be required by the NIGAM but not exceeding the value of the work for the time being remaining executed. In the event of stoppage of the works, the period of the option under this clause shall be fourteen days only. Provided that should the above option not be exercised, the Contract may be determined by the NIGAM by notice in writing to the Contractor and it shall be lawful for the NIGAM to take the work full or in part out of the Contractor's hands and re-contract at reasonable prices with any

other person(s) and the NIGAM shall be entitled to retain and apply any balance which may be otherwise due on the Contract by him to the Contractor, or such part there of as may be necessary to the payment of the cost of executing such work as aforesaid.

22. CONTRACT DOCUMENTS:

- a) The Contractor shall have to execute the contract agreement within 15 days from the date of receipt of detailed work order in triplicate in the prescribed proforma (Form-VII) on non judicial stamp paper worth Rs. 100 (for contract amount up to Rs. 10.00 Lacs), Rs. 200 (for contract amount exceeding Rs. 10.00 Lacs & up to Rs. 50.00 Lacs) & Rs. 1000 (for contract amount exceeding Rs. 50.00 Lacs) as per stamp duty applicable in Govt. of Rajasthan alongwith copy of work order, copy of "General Conditions of Contract", "Instructions to Tenderers" and "Specification". It is advised that each and every page of relevant documents are to be signed by authorised person with stamp.
- b) It may however be ensured that the one copy of the work order and other Documents as above, are signed by an authorised person holding valid power of attorney. The power of attorney on non judicial stamp paper worth Rs.100/- should be attested by the notary public. For this, a copy of the power of attorney in favour of the person signing these documents, duly notarized in original be also submitted alongwith the above documents.
- c) The acceptance of above documents in order shall be notified by the Chief Accounts Officer (MM), RVPN, Jaipur in due course of time under intimation to this office. No any payment shall be released without acceptance of the contract agreement.

23. FURTHER CORRESPONDENCE:

All correspondence pertaining to the work order in respect of any clarification required on the terms and conditions, etc. should be addressed to the Superintending Engineer (400 KV), RVPN, Heerapura, Jaipur-302006.

24. DISPUTES:

- a) All disputes, differences, questions whatsoever arising between the NIGAM and the Contractor upon or in relation to or in connection with the contract shall be deemed to have arisen at JAIPUR (RAJASTHAN) only and no courts other than courts in Jaipur shall have jurisdiction to entertain the same.
- b) The NIGAM has constituted settlement committees to settle the disputed cases. For the disputed amount upto Rs. 2.5 lacs, the case may be referred to the CE level settlement committee and if the disputed amount is more than Rs. 2.5 lacs, the case shall be referred to the CMD level settlement committee. The non refundable fees for referring the case to the settlement committees is as given below:

- | | |
|--|------------|
| i) Reference fee for CE level settlement committee | Rs. 300/- |
| ii) Reference fee for CMD level settlement committee | Rs. 3000/- |
| iii) Fee for review of cases by CMD level settlement committee | Rs. 5000/- |
- c) The settlement committee fees as shown above shall be deposited in cash/demand draft/pay order with the Accounts Officer (TCC I), RVPN, Jaipur and the contractor shall furnish receipt thereof with a request for referring their disputes to the settlement committee for decision.
- d) For settlement, the firm shall furnish in writing their representation indicating the details of dispute/grievances alongwith requisite settlement fee within a period of six months after receiving communication from the Purchaser giving rise to cause of dispute/grievances.
- e) If the firm wishes to apply for review of the decision of the CE level/ CMD level settlement committee, then such request shall be entertained only if it is made within three months from the date of conveying such decision to the firm. Any request received after the period of three months from the date of conveying decision shall not be entertained.

25. ACCEPTANCE OF THE ORDER:

The acceptance of the order shall be conveyed to the Superintending Engineer (400 KV), RVPN, Heerapura, Jaipur-302006 within ten days of the receipt of order in the prescribed proforma failing which it will be presumed that the terms and conditions incorporated in the order are acceptable to the Contractor.

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD.
OVERHAULING OF 250 MVA 400KV/220KV/33KV TRANSFORMER

SECTION – II (A)

SPECIAL CONDITIONS OF CONTRACT (SCC)

1. The Special Conditions of Contract shall be read in conjunction with the General Conditions of Contract (GCC), Technical Specifications, Scope of Work, Schedule of Rates and any other document forming part of this contract wherever the context so requires.
2. Where any portion of the SCC is repugnant to or at variance with any provision of the GCC, then, unless a different intention is meant, the provisions of the SCC be deemed to override the provisions of the GCC only to the extent such repugnancies or variations of the SCC as are not possible of being reconciled with the provisions of the GCC.
3. In case of contradictions, the decision of the Chief Engineer (T&C) will be final and binding on the Contractor.
4. No part of this contract or any share of interest therein shall in any manner or extent be transferred or assigned or sublet directly or indirectly to any person/firm or organization whatsoever.
5. The rates shall be quoted inclusive of the transportation, boarding and lodging charges of his testing staff and equipments as well as the night halt charges, etc.
6. RVPN Engineer shall be available for witnessing and authentication of the work carried out by the Contractor.
7. The Contractor shall have one experienced Engineer present at work place . The Engineer should be able to manage site activities while executing the work and guide the Contractor's personnel in carrying out the work as and when required as per the instructions of the RVPN Engineer.
8. Work shall be carried out from Monday to Saturday except holidays. Working hours shall be from 9.00 AM to 6.00 PM with a one hour break for lunch.
9. Program/schedule shall be prepared at least 15 days before the starting date of the program/schedule and the same may be got approved from Engineer Incharge.

10. Technical documents, drawings and manuals of the transformer shall be made available to the Contractor. Also, the testing procedures and test report formats as adopted/required by RVPN shall be made available to the Contractor.
11. The Contractor's Engineer will take all precautions and follow the instructions of the RVPN Engineer during work so that no damage is caused to the equipment . In case of damage to equipment due to negligence in work the Contractor shall be liable to compensate RVPN for the loss. The decision of the Chief Engineer (T&C), RVPN, Jaipur in respect of the compensation payable shall be final and binding on the Contractor.
12. The Contractor shall be responsible for any damage to his T & P , equipments, etc. for whatsoever reason and RVPN shall not be liable to compensate the Contractor. In the event that any equipment becomes defective or is damaged or does not function, the Contractor shall immediately arrange for its replacement so that the schedule of work is not adversely affected.
13. The quantity of the work can be increased/decreased by +/- 10%.
14. At the end of the day, the Contractor shall prepare the Work Sheet indicating the work done and get this signed / verified by the RVPN Engineer not below the level of Junior Engineer who has witnessed the work.

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LTD.
OVERHAULING OF 250 MVA 400KV/220KV/33KV TRANSFORMER

SECTION – III
TECHNICAL SPECIFICATIONS

1.0 INTRODUCTION

- 1.1** Rajasthan Rajya Vidyut Prasaran Nigam Ltd. (RVPN) Is the State Transmission Utility in Rajasthan. RVPN is responsible for the construction, operation and maintenance of 400 kV, 220 kV and 132 kV Sub Stations in the State.
- 1.2** As part of the maintenance work of the EHV Sub Stations, RVPN is carrying out overhauling of power transformer.

2.0 SCOPE OF WORK

- 2.1** The overhauling of 1 No 250 MVA 400/220/33 KV 'TELK' Make transformer located at 400KV GSS, Heerapura, Jaipur.

3.0 PRICES :

The bidder shall quote separately for the activities indicated hereunder :

S.No.	Particular of work	Rates
1.	Overhauling of 250 MVA, 400/220/33 KV 'TELK' make power transformer ILT-1 & its auxiliaries including supply of Gaskets, labour & supervision charges, Crane with Operator, Overhauling of Fans, Valves, Oil Pumps etc., overhauling of OLTC including supply of material and colouring of transformer and its accessories .	
2.	Discount if Filter Machine is provided by the RVPN.	
3.	Total :	

4.0 Gasket

All joints between flange and made leak proof using gasket. The gasket material should be of Neoprene based rubberized cork type RC-70C as per IS:4253(Part-II)–1968. The thickness of gasket used are either 6.2 mm or 9.6 mm as per requirement. Gasket must be compressed to 60% of his original thickness only.

The properties of gasket are as under (IS:4253(Part-II)-1968) :

- | | |
|--|---------------|
| 1) Specific gravity | : 0.8(approx) |
| 2) Hardness/RHD | : -70 + 10 |
| 3) Compressibility at (28kgf/cm ²) | : 30% |
| 4) Compressibility at (60kgf/cm ²) | : 40% |
| 5) Recovery (min.) | : 80% |
| 6) Compression set | : 85% |

Gasket should have very good resistance to transformer oil at 100° C and used one should not be used again. After blanking inspection of internal part use new gasket. Gasket of same thickness should be used while replacing as original.

5.0 Testing of the Transformer

The testing should be done before and after by the RVPN in presence of Contractor.

5.1 Tests :

- 1) Measurement of IR value.
- 2) Measurement of PI & Dielectric absorption ratio.
- 3) Magnetic balance and magnetizing current at low voltage.
- 4) TTR at all tap position.
- 5) Winding resistance of transformer.
- 6) Capacitance and tan delta value.
- 7) BDV, PPM, tan delta & DGA etc. tests of oil.

NOTE :

Looking to the above results, if any future requirement of material will have to submit to the RVPN in advance.

- 5.2 Marking of all leakage points :
- 5.3 Disconnecting of all control cables, power cable / wire, on-line DGA cable, disconnection of all fire fighting pipes etc..

6.0 General works :

- 6.1 Filtering of oil in the transformer by a separate hot oil circulator so that when total oil is drained out, the temperature of core winding remains above ambient for quite long time and the atmospheric moisture does not condense over it.
- 6.2 Drawing out total oil. Storage tank / blank drums will be provided by RVPN at 400 KV GSS, Heerapura.

- 6.3 Dismantling of all removable external fittings by manual arrangement.
- 6.4 Replacement of complete oil sealing gaskets made of appropriate grade as mentioned at serial No. 4.0 for use in transformer oil such as main cover, Conservator, Radiator, Valve, Air release plug, Explosion vent, Buchholz relay, Bushings, Conservator pipe etc.. Replacements of hardware like nuts & bolts and washers etc. wherever requirement of proper size.
- 6.5 Cleaning and removal of core sediments sludge from tank core, windings, radiators etc. with hot transformer oil. Flushing of radiators for removal of sludge.
- 6.6 Degreasing, derusting and cleaning of all external surface of tank and fitting.
- 6.7 Inspection of core and winding after lifting the dome and attending the abnormalities like applying epoxy glass fiber tape on winding leads, tap joints wherever necessary.
- 6.8 Checking of axial tightness of coil and tightening the same as per requirement with spacers.
- 6.9 Washing of core and winding by hot oil jet.
- 6.10 Check and tightening of terminals of OLTC and servicing.
- 6.11 Refitting the dome and other necessary accessories.
- 6.12 Servicing of Buchholz relay, WTI, OTI, Valves etc..
- 6.13 Calibration and testing of WTI & OTI Meters.
- 6.14 Checking and servicing of all Fan & Pump for bushes, winding, oil flow indicator, bearing, capacitor etc for proper operation.
- 6.15 Supply and replacement of silica gel & breather, if required.

7.0 Oil Filtration :

The contractor should filter oil at site for refilling. The BDV of oil must be above 60 KV. The RVPN will test , in presence of contractor, for the appearance, density at 29.5⁰ C, Kinematic viscosity at 27⁰ C, Interphasial tension, flash point, pour point, neutralization value (Total acidity), BDV, Ten delta at 90⁰C, resistivity at 90⁰ C, water content and DGA. However, requirement of fresh oil, if found necessary is to be provided by RVPN.

8.0 OLTC (On Load Tap Changer) :

The contractor should service the OLTC at site. The following works should be carried out while servicing the OLTC

- 1) Tightening of all loosing Nut, Bolt and connecting parts.

- 2) Checking, attending and replacing the wear and tear parts.
- 3) Checking, attending and interchanging of uneven wear of arcing contacts.
- 4) Checking and attending damage of braided contact leads.
- 5) Cleaning of carbonization of oil and deposition of carbon on diverter switch.
- 6) Filling of treated oil in diverter switch.

9.0 DRYING OUT PROCESS OF POWER TRANSFORMERS

By the process of Transformer oil filtration we remove the sludge and moisture in the transformer oil, but we can not remove the moisture present in the transformer winding. For removing the moisture in the transformer winding transformer drying out is necessary

For carrying out the drying out process at site, following procedure is adopted

- 1) Test the oil in transformer prior to drying out and record for
 - a) Moisture content (ppm)
 - b) Break Down Voltage in KV
- 2) Take the Insulation Resistance (IR Values), LV Winding to Earth, HV Winding to Earth and HV winding to LV winding with oil prior to dry out.
- 3) Measure the dew point of N2 in cylinders.
- 4) Drain oil from transformer under N2 cushion.
- 5) Measure the insulation resistance (IR Values) without oil.
- 6) Place the space heaters around the transformer body and lag the same with glass wool to prevent thermal transfer/loss.

FIRST CYCLE

7) Fill N2 in main tank and pressurize the same up to 3 PSI, hold the pressure for three to four hrs and observe the dropping of pressure, if there is drop in pressure check and attend the leakages, then measure dew point. Switch on the space heaters and measure dew point after 24 hrs.

8) When wall temperature reaches 60 Deg Centigrade and OTI at 45 Degree Centigrade, pull vacuum to 3 Torr and hold for 24 hrs.

SECOND CYCLE

9) Start N2 filling with the heaters ON. Pressurize transformer to 3 PSI and hold for 24 hrs. Measure dew point after 24 hrs.

10) When tank wall temperature reaches 80 Degree Centigrade and OTC at 50 Degree Centigrade, pull vacuum to 3 Torr and hold for 24 hrs.

THIRD CYCLE:

11) Start N2 filling and when tank wall temperature is 43 Degree Centigrade, OTI at 35 Degree Centigrade Minimum, switch ON the heaters. Pressurize the transformer to 3 PSI and hold for 24 hrs. Measure the dew point after 24 hrs. If the dew point attained is -25 Degree Centigrade or lower, discontinue further N2 purging cycles, evacuate the transformer and complete further processing as per Erection and Maintenance Manual. If the dew point is not attained -25 Degree Centigrade, continue N2 purging and evacuation cycles for further repetitions till the dew point is achieved. Then evacuation and processing should be carried out as per Erection and Maintenance Manual.

12) Note down the insulation resistance (IR Values) at the end of each cycle.

Observations :- After end of each cycle IR values of winding increases and at end of drying out the IR values of Transformer winding are considerably increased.

10.0 CLEANING AND PAINTING :

10.1 Before applying anti rust primary coats all un-galvanized parts shall be completely cleaned and shall be free from rust, scale and grease and all external rough surfaces on castings shall be filled by metal deposition. Unexposed welds need not be painted.

10.2 The interior of all transformer tanks and other oil filled chambers and internal structural steel works shall be inspected and if needed cleaning of all scales and rust by shot or sand blasting and given anticorrosion

treatment against any chances of rust. Painting material shall be heat resistant and insoluble in oil.

- 10.3 Except for nuts, bolts and washers which shall be galvanized, all steel surfaces exposed to weather shall receive minimum of three coats of paints.
- 10.4 The primary coats of zinc chromate shall be applied immediately after cleaning. The second coat shall be of oil and weather resisting nature and of a shade be of color easily distinguishable from the primary and final coats and shall be applied after the primary coats have been touched up where necessary. The final two coats shall be of glossy and oil and weather resisting non-fading battle ship grey paint of exterior and light yellow cream paint on the interior surfaces having shades as per IS:5 .
- 10.5 The minimum thickness of outside painting of tank shall be 20 microns and the total thickness shall be minimum 80 microns.
- 10.6 Any damage to paint work incurred during transport, storing and erection shall be made good by thoroughly cleaning the damaged portion and applying the full number of coats of paint that had been applied before damage was caused.

11.0 GENERAL REQUIRMENT :

- 11.1 The contractor has to prepare to protect the job from water and dust while carrying out the job around the transformer so that no dust particles enter during overhauling.
- 11.2 The Contractor shall arrange his own T & P and equipments.
- 11.3 The Contractor shall make necessary arrangements for storage, handling and transportation of the equipments.
- 11.4 The transport vehicle shall be arranged by the Contractor.
- 11.5 The work will be witnessed/authenticated by the representative of RVPN.

12.0 SPECIAL REQUIRMENT :

- i) The overhauled transformer should be guaranteed against any defective material used and faulty workmanship for the period of 12 months from the date of completion of overhauling. In case of failure due to the aforesaid reasons under normal working conditions, the contractor will have to repair the transformer free of cost immediately.
- ii) The test results after the overhauling of the transformer should be compared with the previous one which should be almost equivalent to the initial commissioning report of the transformer.

SECTION – IV**'SCHEDULE – I A'****SCHEDULE OF RATES FOR OVERHAULING OF 1 No. 250 MVA 400/220/33 KV POWER TRANSFORMER INSTALLED AT HEERAPURA, JAIPUR**

S No	Job Description	Qty	Unit Rate	Amount
1	Overhauling of 250 MVA, 400/220/33 KV 'TELK' make power transformer ILT-1 & its auxiliaries including supply of Gaskets, labour & supervision charges, Crane with Operator, Overhauling of Fans, Valves, Oil Pumps etc., overhauling of OLTC including supply of material and colouring of transformer and its accessories .	1		
2.	Discount, if Filter Machine is provided by the RVPN.			
3.	Total :			
4	VAT @__ % on Rs _____			
5	Service Tax @____ % on Rs _____			
6	Grand Total :			

Amount In words Rs _____

SECTION – IV

SCHEDULE – IV

DEPARTURE FROM SPECIFICATIONS

The tenderer shall state under this schedule the departure from the Purchaser's specification in respect of both technical and commercial terms & conditions.

S.No.	Main Deviations from Specification
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1) **Technical Deviations:**

2) **Commercial Deviations:**

Certified that we agree to all Technical Specification and Commercial Terms and Conditions as laid down in the "General Conditions of Contract" except for the deviations to the extent indicated above.

Signature
(Name)
Designation
Seal of the firm