



NATIONAL INSTITUTE OF SOLAR ENERGY
(An autonomous Institute of Ministry of New & Renewable Energy)
GURGAON

**NOTICE INVITING QUOTATION FOR ERECTION OF 2 NOS. OF 630 KVA
TRANSFORMERS WITH HT PANELS AT NISE, GURGAON**

Quotations are invited from reputed suppliers for major electrical items and their authorized dealers for erection, installation, commissioning & testing etc. of 2 nos. of 630 KVA transformers with HT Panels. The bidders must have past experience in the same or identical job.

The interested bidders may visit NISE Campus, Gurgaon on any working day between 10.00AM to 4.00 PM to assess & inspect the site before submitting the quotations. Tender document may be downloaded from the website of NISE: www.nise.res.in.

Quotations shall be submitted in sealed envelope super scribed as Tender for "Erection of Transformers" addressed to: The Director General, National Institute of Solar Energy, Faridabad- Gurgaon Road, Gwal Pahari, Gurgaon 122003, Haryana, India. The bidders may submit their quotation by post or by dropping it in the tender drop box located at the reception counter of NISE Gurgaon. Last date for receipt of bids will be 1.00 P.M. 20th May, 2016.

No.A/02/002/2016-NISE (Elect.)

National Institute of Solar Energy
Gwal Pahari, Gurgaon-Faridabad Road
Gurgaon 122003 Haryana

NOTICE INVITING QUOTATIONS

SUB- Erection, installation, commissioning & testing etc. of 2 nos. of 630 KVA transformers with HT Panels – reg.

Sealed quotations are invited from reputed electrical contractors or their authorized dealers for erection, installation, commissioning & testing etc. of 2 nos. of 630 KVA transformers with HT Panels. The interested bidders may visit the NISE Campus, Gurgaon on any working day between 10.00AM to 4.00 PM to assess & inspect the site before submitting the bid. Details are given below:-

Submitting of quotations	Quotations shall be submitted in sealed envelope super scribed as Tender for “Erection of Transformers” addressed to: The Director General, National Institute of Solar Energy, Faridabad-Gurgaon Road, Gwal Pahari, Gurgaon 122003, Haryana, India. The bidders may submit their quotation by post or by dropping it in the tender drop box located at the reception counter of NISE Gurgaon.
Last date for submission of bids	1.00 P.M. on 20 th May, 2016
Opening of quotations	3.00 P.M. on 20 th May, 2016
Address for Communication	The Director General, National Institute of Solar Energy, Faridabad-Gurgaon Road, Gwal Pahari, Gurgaon 122003, Haryana, India. Ph: 0124-2853051

INSTRUCTIONS TO BIDDER

1. Eligibility of Bidders

- i) The Bidder should be a reputed electrical contractor having an annual turnover of not less than Rs.50 lakh during the last three years, who must have experience in at least two similar kind of jobs. The proof of turnover and list of clientele will be submitted with the bids. Such equipment must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
- ii) Details of Service Centers located in Gurgaon or adjoining areas and information on Service support facilities that would be provided after the warranty period (In the Service Support Form).
- iii) That, the Bidder shall be equipped and able to carry out the Supplier's maintenance, repairs and Spare parts, stocking obligations prescribed by the conditions of the contract.
- iv) That adequate and specialized expertise is already available or will be made available following the execution of the contract in the Purchaser's city, to ensure that the support services are responsive and adequate.
- v) The Bidder will assume total responsibility for the fault-free operation of equipment and maintenance during the warranty period and provide necessary maintenance services for five years after end of warranty period if required.
- vi) Bidders who do not meet the criteria given above are liable to be disqualified, if they have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc.

**Bill of Material for Erection, Installation, Commissioning & Testing of 2 nos. of 630 KVA Transformers with HT Panels
at National Institute of Solar Energy, Gurgaon**

SI No	Description	Qty	Unit	Unit Rate Supply (Rs)	Unit Rate Erection (Rs)	Amount Supply (Rs)	Amount Erection (Rs)
1	11KV HT VCB PANELS						
1.1	Unloading and shifting to site of Erection, Alignment and Erection on existing support the following 11KV VCB Panels						
1.1a	11KV, Indoor Type, 350 MVA, 6 Panel VCB Board at Old Substation Building comprising of: 1 Nos Incomer 800A VCB Panel, and 5 Nos Outgoing 630A VCB Panels All the Panels will be of Horizontal Drawout, Horizontal Isolation, Floor Mounting Motorized Panel with 230V AC Motor Mechanism and 24V DC Shunt/ Close coil and other fittings and accessories.	1	Set	0		0	
	TOTAL OF SUBHEAD-1						
2	Oil Cooled Transformer						
2.1	Unloading and shifting to site of Erection, Alignment and Erection on existing support / foundation the following Oil Cooled Transformers (For Old Substation Building)						
2.1a	630 KVA, 11/0.433KV, 3 Phase, 50 HZ, ONAN Cooled, Oil immersed, Copper Wound, Indoor type, Step down Transformer complete with First Filling of Oil and other standard fittings and accessories	2	Nos	0		0	
	TOTAL OF SUBHEAD-2						
3	Battery Charger						

3.1	Design, Manufacture, Supply at site, Unloading and shifting to site of Erection, Alignment and Erection on existing support / foundation the following Battery Charger (For Old Substation Building)						
3.1a	Battery charger unit for output of 24V DC Supply 100Ah complete with Trickle and Boost Charging Facility along with 2 Volt Battery 12 Nos all mounted in an enclosure complete with interconnecting leads and along with a DC Distribution Board suitable for 40A DP Incomer and 12 nos 6/10A DP outgoing formed from DC MCBs	1	Set				
TOTAL OF SUBHEAD-3							
4	HT Cables and Jointing						
4.1	Supply of 11KV, XLPE (E) , Aluminium Armoured cable and laying partly underground and partly through Hume Pipes and partly in prepared trenches of following sizes						
a	3x300 Sq mm	30	Mtrs				
b	3x240 Sq mm	RO	Mtrs			0	0
c	3x185 Sq mm	80	Mtrs				
4.2	Uplifting of existing 11KV, XLPE cable and rerouting by partly laying underground, and partly through Hume Pipes and partly in prepatred trenches of following sizes						
a	3x300 Sq mm	20	Mtrs	0		0	
b	3x240 Sq mm	RO	Mtrs	0		0	0
c	3x185 Sq mm	RO	Mtrs	0		0	0
4.3	Lifting up of existing 11KV XLPE cable from underground and shifting to the site stores of following sizes						
a	3x300 Sq mm	RO	Mtrs	0		0	0
b	3x240 Sq mm	RO	Mtrs	0		0	0
c	3x185 Sq mm	RO	Mtrs	0		0	0

4.4	Lifting up of existing 11KV XLPE cable from existing prepared trench and shifting to the site stores of following sizes						
a	3x300 Sq mm	RO	Mtrs	0		0	0
b	3x240 Sq mm	RO	Mtrs	0		0	0
c	3x185 Sq mm	30	Mtrs	0		0	
4.5	Providing and Making of HT Joints suitable for 3 core 11KV XLPE cables						
a	3x300 Sq mm Indoor Type	2	Nos				
b	3x300 Sq mm Outdoor Type	RO	Nos			0	0
c	3x300 Sq mm Straight through type	RO	Nos			0	0
d	3x240 Sq mm Indoor type	RO	Nos			0	0
e	3x240 Sq mm Outdoor Type	RO	Nos			0	0
f	3x240 Sq mm straight through type	RO	Nos			0	0
g	3x185 Sq mm Indoor type	6	Nos				
h	3x185 Sq mm Outdoor type	RO	Nos			0	0
i	3x185 Sq mm Straight Through Type	RO	Nos			0	0
	TOTAL OF SUBHEAD-4						
5	LT Cables, Control Cables and Terminations						
5.1	Supply of 1.1KV, XLPE , Copper Armoured Control cable and laying partly in prepared trenches and partly on Cable Trays and partly through GI Pipes of following sizes:						
a	3x2.5 Sq mm	100	Mtrs				
b	5x2.5 Sq mm	65	Mtrs				
c	7x2.5 Sq mm	130	Mtrs				
d	14x2.5 Sq mm	RO	Mtrs			0	0
5.2	Providing and terminating Armoured Copper Control Cables by using Double Compression Brass Cable glands and crimping type copper lugs of following sizes						
a	3x2.5 Sq mm	6	Nos				
b	5x2.5 Sq mm	4	Nos				
c	7x2.5 Sq mm	8	Nos				
d	14x2.5 Sq mm	RO	Nos			0	0

TOTAL OF SUBHEAD-5							
6	Cable Trays and Structural Support and Pipes						
6.1	Providing and Installing MS Painted Perforated type Cable Trays of following sizes on existing structural support						
a	50x600x50x 2mm	RO	Mtrs			0	0
b	50x300x50x2mm	30	Mtrs				
c	50x200x50x2mm	RO	Mtrs			0	0
6.2	Providing, fabricating, painting and installing structural support made from MS Angles, Channels, Flats etc for supporting of Equipment, Trays, and any other support work	1000	KG				
6.3	Providing and fixing of GI Pipes as under on wall and under floor						
a	40 NB Class -B	12	Mtrs				
b	50 NB Class -B	12	Mtrs				
TOTAL OF SUBHEAD-6							
7	Earthing						
7a	Earthing with GI Earth Plate 600x600x6mm thick including all required accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7Mtr long with charcoal/ coke and salt as per IE Rules for Body earthing of equipment	8	Sets				
7b	Earthing with Tinned Copper Earth Plate 600x600x6mm thick including all required accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7Mtr long with charcoal/ coke and salt as per IE Rules for Neutral earthing of Transformers	4	Sets				
7c	Providing and installing Earth Test Links suitable for GI Earth Pits	10	Sets				
7d	Providing and installing Earth Test Links suitable for Copper Earth Pits	4	Sets				
7e	Providing and laying partly underground, partly in prepared trenches, partly on wall, through pipe and partly on trays the following earthing conductor						

i	50x6mm GI Strip	250	Mtrs				
ii	25x6mm GI strip	40	Mtrs				
iii	25x3mm GI Strip	50	Mtrs				
iv	40x6mm Cu Strip	80	Mtrs				
7f	Providing and fixing PVC Sleeve suitable for 40x6mm Copper Strip	80	Mtrs				
TOTAL OF SUBHEAD-7							
8	Miscellaneous Works						
a	Providing and Fixing 4.5KG CO2 Type Fire extinguisher	6	Nos				
b	Providing and fixing Shock Treatment Chart	4	Sets				
c	Providing and fixing Fire Buckets with sand filling	12	Nos				
d	Providing and Fixing 11KV Grade Safety Rubber mats	16	Sq Mtr				
e	Providing of 11 KV Hand Gloves	1	Set				
f	Providing of First Aid Box complete with basic medicines	1	Set				
g	Modification in the existing LT Busducting arrangement to facilitate connection to the new transformer	2	Sets				
h	Providing and Fixing of new Flexible connections from the LT Bus duct to the LT side of New 630 KVA Transformer at the Old substation	2	Sets				
TOTAL OF SUBHEAD-8							
9	Testing and commissioning						
a	Testing and Commissioning of the above installation including furnishing of test reports	1	LOT				
b	Preparation of As- Built Drawings and submission of 2 copies of the same	1	LOT				
TOTAL OF SUBHEAD-9							
10	Optional Items						

a	Providing, Fabricating, Painting and Installing 6mm thick MS Chequered Plate in suitable sections complete with handle and supported on existing structural support for covering of readymade cable trenches inside substation Building of old and new block	RO	Sq Mtr				
b	Dismantling of existing wall in old substation building and removal of debris	RO	Sq Mtr				
c	Construction of New 9" wall at a new location in old substation building with both side plastering	RO	Sq Mtr				
d	Dismantling of one existing door and relocating in a new place and blocking the earlier door opening with bricks including plastering on both sides.	RO	Each				
e	Making of Additional Cable Trenches on Substation Floor to match with the proposed requirement	RO	CuM				
f	Dismantling of existing 2 Pole structure with fittings presently located outside Old substation Building and shifting to stores	RO	Set				
g	Distemper painting of the proposed Transformer Room and HT Panel Room at old Block	RO	Sq Mtr				
h	Providing and Wiring with FRLS Cu wire in MS Conduit for surface/ recessed of sizes as under						
(i)	3x1.5 Sq mm	RO	Mtrs				
(ii)	3x2.5 Sq mm	RO	Mtrs				
(iii)	3x4 Sq mm	RO	Mtrs				
i	Supply and fixing of switches , sockets on existing switch box						
(I)	6A one way switch	RO	Each				
(ii)	16A, one way switch	RO	Each				
(iii)	6A, 3 pin socket	RO	Each				
(iv)	16A, 6 pin socket	RO	Each				
j	Supply and fixing of switch boxes with front plate as under						
(i)	1 module box with plate	RO	Each				
(ii)	2 module box with plate	RO	Each				
(iii)	3 module box with plate	RO	Each				
(iv)	4 module box with plate	RO	Each				

	<i>Tax on Supply</i>						
	<i>Service Tax on Erection</i>						

GENERAL CONDITIONS OF CONTRACT

1.0 Codes & Standards: The erection of Transformer and its components shall comply with the latest edition of the applicable standards.

2.0 Inspections and Tests: All routine test & acceptance tests as per relevant standards and specification shall be carried out by the vendor on the premises of the MANUFACTURER. Charges for all these tests for all the equipment & components shall be included. Drawings and production data shall be furnished to the inspectors at no charge basis to the Purchaser, Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods.

4.0 Commissioning Check Tests/Performance and Guarantee Test: In addition to the checks and test recommended by the manufacturer, the contractor shall supervise the following acceptance tests to be carried out on each set.

5.0 Certificate: The vendor shall furnish, at its own cost, test certificate for the various material and equipment as called for. Such certificate shall be from the manufactures for the particular consignment / lot/piece and shall be dully authenticated by respective consultants.

6.0 Packing: The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

7.0 Delivery and Documents: Delivery of the goods should be made within 04 weeks from the date of placement of purchase order. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AWB etc. and date, description of goods, quantity, name of the consignee, invoice etc. The Supplier shall mail the following documents to the purchaser with copy to the insurance company:

- i) Copies of the Supplier invoice showing contract number, goods' description, quantity, and unit price, total amount;
- ii) Acknowledgment of receipt of goods from the consignee(s) by the transporters; iii) Insurance certificate, if any.
- iv) Manufacturer's/Supplier's warranty certificate;
- v) Inspection Certificate issued by the inspector of SINP, and the Supplier's factory inspection report; and Certificate of Origin.
- vi) Two copies of the packing list identifying the contents of each package.

The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

8.0 Insurance: For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier to an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes.

9.0. Transportation : Where the Supplier is required under the Contract to transport the Goods to a specified place of destination including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the Contract Price.

10.0. Warranty: The vendors must provide full comprehensive warranty for a period of 12 months (one year) post installation. During this period they should provide for all spare and parts required for repair and maintenance along with repair maintenance service within 12 hrs. of communication of such services cell. Warranty of 1 year against manufacturing defects.

11.0. AMC: The vendor must have provision for prompt and high quality after-sales services after Completion of the warranty period in an AMC basis and must quote the cost of such AMC in the main tender for the 2nd and 3rd year.

12.0 Payment: 40% advance against bank guarantee & 50% against delivery of material at site & 10% after testing & commissioning and acceptance of the system /equipment to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee of the amount of EMD which will be retained for a period of one year towards warranty.

13.0 Taxes and Duties: Suppliers shall be entirely responsible for all taxes, duties, license fees, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. Being the purchases for scientific purpose, the customs/Excise duty exemptions are applicable.

14.0 Penalty Clause: If the Supplier fails to deliver the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty (Half percent of contract price per week of delay subject to a ceiling of 5% of final contract price).

15.0. Applicable Law: The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction in Gurgaon, Haryana.

16.0 FREE MAINTENANCE AND DEFECTS LIABILITY PERIOD OF THREE YEAR. Following are the works shall be carried out during the free maintenance period.

- Emergency call back service
- Inspect, clean, oil and grease where necessary
- Adjustment of machinery
- Replacement of any defective parts

17.0 Interested bidders are requested to inspect the work site at the address above mentioned and get them acquainted with the nature of work and local conditions that may have a bearing on the rates and to inspect the existing transformers and existing panels.

THE FOLLOWING FORMS TO BE FILLED BY THE BIDDER

- (i) Performance Statement form
- (ii) Service Support details;
- (iii) Manufacturer's Authorization Form
- (iv) Certificate of experience of two similar jobs.

NOTES

- (1) NISE, Gurgaon reserve right to accept or reject any or all applications without assigning any reasons.
- (2) The offers from OEM authorized dealer of engine manufacture only will be considered. The offers received from unauthorized dealer/firms may will be passed over.
- (3) OFFERS with INCOMPLETE INFORMATION ARE LIABLE TO BE REJECTED, which may be noted.

(Dr O S Sastry)
Director General, NISe