

TENDER DOCUMENT FOR

“Supply, installation, testing & commissioning of New 11 KV HT connection on 11/0.433KV, 315 KVA Transformer at Mini Dairy Plant, Jhabua”



Issued By:
Chief Executive Officer
Indore Sahakari Dugdh Sangh Maryadit, Indore (ISDS)

SECTION I - INSTRUCTION TO BIDDERS

1) Eligibility and Qualification Requirements:

The bidders must meet the following minimum qualifying criteria:

- a) The Bidder, in the same name and style, should be in business at least for **3 years** at the time of bid opening. In case of change of name of bidder by merger / acquisition / change in status, the bidder may be eligible based on the documentary evidence.
- b) The Bidder should have valid registration under various Acts that may be applicable for the contract proposed. This shall include but not limited to Income Tax, GST etc.
- c) The Bidder's Financial Turnover in the same name and style in each of the last three financial years (**FY 23-24, 24-25 & 25-26**) ending 31st March shall be not less than **Rs. 22.5 lakhs**. The bidder should submit the Turnover certificate from CA firm / audited financial statements.
- d) The Bidder in the same name and style shall have successfully executed / completed contracts of similar nature of work in dairy/food industry during the last **3 years** ending last day of the month previous to the month in which bid is opened, either of the following: -

I) **10.80 Lakh** One Contract / Work of similar nature costing not less than **Rs. 10.80 Lakh**

OR

II) Two Contracts / Works of similar nature each costing not less than **Rs. 6.75 Lakh**

OR

III) Three Contracts / Works of similar nature each costing not less than **Rs. 5.40 Lakh**

Note:

- a) The Contract means the work done against one work order on a single location. Separate orders for supply and erection/ commissioning against one job on a single location will also be considered.
- b) Bidder shall submit the following details to support their claim for meeting the minimum eligibility requirement -
 - 1. Name / Names of projects to be considered for meeting minimum eligibility criteria
 - 2. Nature of each project / work completed along with respective completion certificate.
 - 3. Value of work of each project / work completed.
 - 4. Location of execution of each project/work completed.

- c) Even though the bidder meets the specified criteria, it may be disqualified if it has:
- I. Made untrue or false declaration and/or
 - II. Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion or financial failure etc.

2) Period of Validity of Bids:

The Bids shall remain valid for 90 days from the date of financial bid opening prescribed by the ISDS. A bid valid for a shorter period shall be rejected by ISDS as non-responsive

3) Signing of Contract

Within 30 days from the receipt of the Purchase Order, the successful bidder shall return the duplicate copy of the Purchase Order, duly signed and sealed along with Contract Agreement & Performance Security, wherever applicable.

4) Performance Security

- (i) Within 30 days of receipt of the Purchase order, the successful bidder shall furnish the performance security of 5% of the Purchase Order (PO) amount in accordance with the Conditions of Contract, in the Performance Security Form. The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- (ii) Failure of the successful Bidder to comply with above mentioned requirement (as per Clause 18 & 19 (i)) shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.

5) Rights Reserved by ISDS

ISDS does not bind itself to accept the lowest bid. ISDS reserves the right to award the job either in part or full. ISDS at its sole discretion and without assigning any reason thereof, also reserves the right to accept any/or reject any or all bids.

SECTION II - TERMS AND CONDITIONS OF CONTRACT

1. The bidding system is on internet platform. The site can be accessed through www.ncdfimarket.com maintained by National Cooperative Dairy Federation of India Ltd (NCDFI), which will be the venue for online bid submission.
2. All the registered members of the NCDFI eMarket, on deposit of EMD, are eligible to participate in the bidding.
3. **Earnest Money Deposit (EMD):**
 - All the bidders have to deposit EMD Rs 25,000 in their NCDFI's escrow account for participation in the eAuction/bidding.
 - EMD by the bidder shall carry no interest.
 - For successful bidder(s), the EMD shall be returned after deduction of the applicable TC and TDS on successful submission of SD to buyer, whereas the EMD of the unsuccessful bidders will be released after completion of the tender.
 - In case the bidder fails to deliver the goods within the stipulated period, the EMD of the bidder will be forfeited.
4. Performance Security:

The Performance Security of **10% of the contract** price shall be denominated in the currency of the Contract or in a freely convertible currency acceptable to the Purchaser, and shall be in the following form:

- a. A bank guarantee issued by a Scheduled Public Sector Bank(s) or Scheduled Private Sector Bank(s) or Scheduled Foreign Bank(s) as notified by RBI, valid up to the warranty period plus 3 months claim period

OR

- b. Demand Draft issued by any Nationalised Bank / Scheduled Bank/ Foreign Banks having branches in India in favor of respective Indore Sahakari Dugdh Sangh Maryadit, Indore payable at Indore.

The performance security will be discharged by the Purchaser and returned to the Supplier not later than 30 days following the date of completion of Supplier's performance obligation, including any warranty obligations, under the Contract.

Failure of the successful Bidder to comply with above-mentioned requirement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security

5. Date of Delivery:

Date of delivery prescribed shall be deemed to be the essence of the purchase order/contract. Each unit of an item shall be delivered to destination not later than the delivery date specified in the order.

6. Liquidated Damages:

If the bidder fails to deliver any or all the goods or perform the services within the time period(s) specified in the purchase order/contract, ISDS shall, without prejudice to its other remedies under the purchase order/contract, deduct from the purchase order/contract price, as liquidated damages, a sum equivalent to:

Sl. No.	Delay Period	Liquidated Damages
01	Up to 15 days	1% of the value of purchase order.
02	Between 16 to 30 days	2% of the value of purchase order.
03	After 30 days	5% of the value of purchase order.

ISDS may without prejudice to any other method of recovery, deduct the amount of such damages from any payment in its hands, due or which may become due to the Contractor. The payment or deduction of such damages shall not relieve the Contractor from his obligation to complete the Works, or from any other of his obligations and liabilities under the Contract.

The total amount so deducted shall not exceed 5% of the purchase order/ contract value. Once the maximum is reached, ISDS may consider cancellation / termination of purchase order/ contract, and forfeiture of performance security and/or Retention amount.

The amount of Liquidated damages will not be adjusted or set-off against any sum payable to the successful tenderer under this or any other contract with ISDS.

4. Termination of Contract:

4.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
 - (i) if the Supplier fails to deliver any or all of the Goods/Services within the period specified in the Contract, or within any extension thereof granted by the Purchaser;
 - (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to Clause 4.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

ISDS shall be free to cancel the order either in full or in part, in the case of non-delivery of material/ non completion of installation/ services within the stipulated delivery period or breach of any of the clauses mentioned herein. In the event of cancellation of order, the supplier/ contractor will be liable to refund the advance, if paid. The supplier/ contractor has no right to forfeit the advance amount received by him.

4.2 Termination for Convenience

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for

the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the date of issuance of the termination notice, shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - (i) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier

5. Terms of Payment:

For supply, installation, testing & commissioning:

- a. 70% payment shall be released within 30 days against safe receipt, acceptance of goods at site and against submission of original invoice. The payment shall be released after receipt of all the ordered goods at site.
- b. Remaining 30% shall be released within 30 days against successful completion of installation, testing & commissioning.

NOTE: All the bank guarantees should be in the pro-forma prescribed and from a Scheduled Public Sector Bank(s) or Scheduled Private Sector Bank(s) or Scheduled Foreign Bank(s) as notified by RBI. The performance and retention bank guarantees should be valid till warranty period plus 3 months claim period.

The payment shall be released after receipt of Performance Bank Guarantee & duplicate copy of PO duly accepted.

6. Insurance:

In case where the purchase order is placed on "free delivery at site" including unloading basis, no insurance premium will be paid by ISDS. In such a case, all required insurance policies (Transit risk insurance policy, storage insurance policy, all risk policy, Workmen Compensation policy, Third Party insurance etc.) may be obtained by the supplier/ contractor to safeguard their own interests and to protect the material against transit hazards, storage (at Site) for damage/ loss.

7. Rejection:

ISDS reserves the right to reject the goods either in full or in part, if at the time of delivery, it is noticed that the goods supplied do not conform to the specifications/ description given in the purchase order. The rejections, if any, will be intimated to the supplier in writing within a reasonable time. The supplier will be liable and responsible to repair/ replace the rejected goods within the original delivery period. No extra payment shall be made for such replacement to the supplier/ contractor for freight, unloading and insurance etc. Till the repair/ replacement is made, the rejected goods shall be lying at supplier's risk, cost and responsibility. If the supplier does not arrange to repair/ replace the rejected goods within the original delivery period, ISDS may dispose off such goods at supplier's risk and in the manner ISDS thinks fit. ISDS shall be at liberty to purchase the quantity of items rejected from other parties without giving any notice and at supplier's risk & cost and recover the additional expenditure, if any, from any of the outstanding dues of the supplier/ contractor. ISDS shall be entitled to recover the expenses made by ISDS on storage and handling of such rejected goods till the goods are removed from ISDS premises/ stores.

8. Warranty: As mentioned in the technical specification.

The supplier/ contractor must provide a warranty for a minimum period of 12 calendar months from the date of commissioning of equipment for the satisfactory performance of the supplied equipment according to the designed/ rated/ installed capacity or any other norms fixed by ISDS. If the equipment remains out of order during this period, the warranty will be accordingly extended by period the equipment was out of order due to non-repair by the supplier/ contractor.

9. Drawings, Specifications & Manuals:

Wherever applicable, prior to commencement of manufacturing/ fabrication, the supplier/ contractor shall have to submit for ISDS's approval three sets of drawings of all the items ordered for supply, showing overall dimensions with typical sections, details of service connections and their equipment, details of drive units etc. for each equipment. Soft copy of the final (As built) drawings shall be submitted. In case of items for which drawings are provided by ISDS, the supplier/ contractor shall fabricate/ manufacture the items strictly in accordance with these drawings and any other instruction given by ISDS. For such items, there is no need for the supplier/ contractor to submit the drawings to ISDS for approval prior to commencement of fabrication/ manufacture. Where documents and drawings are supplied to the supplier/ contractor by ISDS, the same must be treated as confidential, must not be copied, reproduced, transmitted or disclosed otherwise in whole or part, nor duplicated, modified, divulged or discussed with any third party nor used in any other way without the consent of ISDS in writing. All such documents and drawings, shall be the property of ISDS and they must be returned to ISDS after execution of the order. Wherever applicable, 3 sets of equipment manual should be provided along with the consignment.

10. Sub-Contract:

In the event of awarding sub-contract to any party/parties by the supplier/ contractor for the manufacture/supply/erection of any parts/spares/components that will be used in ordered equipment, the supplier/ contractor must furnish the details about their sub-contract also. The responsibility rests on the supplier/ contractor regarding quality, quantity, guarantee/warranty of the materials supplied by the sub- contractors.

11. Spares:

If asked for, the supplier shall provide a list of spare parts, which will be required for the plants and equipment supplied for at least two years of normal operation with the names and the addresses of the manufacturers from whom these can be procured. The list should contain the code numbers of the parts, which are required to be procured, in addition to the machine number, models etc.

12. Inspection:

On placement of order, the goods/equipment under the purview of supply should be inspected by the supplier's own technical experts at the supplier's works and such inspection report should be forwarded to ISDS in triplicate. However, ISDS reserves its right to inspect at any stage of fabrication/manufacture of the equipment/material. The supplier should intimate the ISDS without fail, when the goods/equipment is ready for inspection including the stage wise inspection. The supplier should not proceed with further manufacture and/or dispatch of goods/equipment, without obtaining a clearance certificate from ISDS. The supplier should forward to ISDS the Test Certificates, wherever applicable, obtained from concerned authorities/ principal manufacturers either regarding quality or any other details of the items utilised in the process of manufacture/fabrication

13. Dispatch Instructions:

The materials are to be dispatched to the destination by the mode of transport specified in order under intimation to ISDS. Depending on the type of material, the supplier shall have to carry out proper packing/ crating to avoid breakages in transit. Other details of dispatch such as consignee's particulars etc. are mentioned in the purchase order. For using any mode of transport other than the specified one, prior concurrence from ISDS in writing should be obtained.

All consignments should be dispatched on freight paid basis irrespective of price basis. In the event of freight payable extra by ISDS, the supplier shall have to obtain ISDS prior approval and produce necessary documentary evidence in support of claims. Unless otherwise stated, the original RR/LR should be sent directly to the consignee along with three copies of invoice and two copies of Delivery Challan/e-way bills and Packing List.

16. Demurrage:

The supplier shall bear and reimburse to ISDS the full demurrage, if any, paid by reason of delay on their part in forwarding the original dispatch documents to the destination mentioned in the purchase order.

17. Submission of Bills:

Bills in triplicate stating therein the purchase order reference along with necessary copies of dispatch documents are to be submitted as per instructions given in the purchase order. Unless otherwise stated, the payment shall be made by Crossed Account Payee cheque according to the terms of payment mentioned in the purchase order.

19. Force Majeure:

The terms and conditions mutually agreed upon shall be subject to Force Majeure Clause. Neither the supplier/ contractor nor ISDS shall be considered in default in performance of his/their obligations hereunder if such performance is prevented or delayed because of war, hostilities, revolution, civil commotion, strike, epidemic, accident, fire, wind, flood, earthquake or because of any law, order, proclamation, regulation or ordinance of any Government or of any act of God or any other cause whether of similar or dissimilar nature, beyond the reasonable control of the party affected. Should one or both the parties be prevented from fulfilling his/their contractual obligations by a state of Force Majeure lasting continuously for a period of six months, the two parties should consult each other regarding the future implementation of the contract/purchase order.

20. Arbitration:

In the event of any dispute in the interpretation of the terms of this agreement/ purchase order or difference of opinion between the parties on any point in the purchase order arising out of or in connection with the agreement/ accepted purchase order or with regard to performance of any obligation hereunder by either party, the parties hereto shall use their best efforts to settle such disputes or difference of opinion amicably by mutual negotiations. In case no agreement is reached, either party may forthwith give to the other, a notice in writing of the existence of such question, dispute or difference of opinion and the same shall be referred to the adjudication of sole arbitrator to be appointed by "ISDS" whose decision in the matter shall be final and binding on the parties. The arbitration proceedings shall be governed under the provisions of the Indian Arbitration & Conciliation Act, 1996 and the rules thereunder or any statutory modification thereof for the time being in force. In this agreement/purchase order, venue of such arbitration shall be Indore (M.P.).

21. Jurisdiction:

Courts at Indore, MP, alone shall have jurisdiction regarding any matter arising out of this tender.

Section - III

Schedule of Requirement

“Supply, installation, testing & commissioning of New 11 KV HT connection on 11/0.433KV, 315 KVA Transformer at Mini Dairy Plant, Jhabua”

S. No.	Item Description	Qty.	Item Description	Delivery Location
1	Supply of New 11 KV HT connection on 11/0.433KV, 315 KVA Transformer at Mini Dairy Plant, Jhabua (As per Section IV technical specification)	1	Nos	Mini Dairy Plant, Jhabua, Indore-Ahmedabad highway, District Jhabua, Madhya Pradesh (457661)
2	Installation, testing & commissioning of New 11 KV HT connection on 11/0.433KV, 315 KVA Transformer at Mini Dairy Plant, Jhabua (As per Section IV technical specification)	1	Nos	Mini Dairy Plant, Jhabua, Indore-Ahmedabad highway, District Jhabua, Madhya Pradesh (457661)
	Total Qty. Set.	1	Set	

Delivery Period – Within 45 days from the date of issuance of the Purchase Order.

Note: The PO shall be issued by ISDS to the successful bidder. The PBG to be submitted to ISDS.

Section V- Price Schedule

“Supply, installation, testing & commissioning of New 11 KV
HT connection on 11/0.433KV, 315 KVA Transformer at
Mini Dairy Plant, Jhabua”

S. No.	Item Description	Qty.	UoM	Unit Rate (Rs.)	Applicable GST %	Total Amount Incl. GST. (Rs.)
1	Supply of New 11 KV HT connection on 11/0.433KV, 315 KVA Transformer at Mini Dairy Plant, Jhabua.	1	Nos.	Rates to be entered at e-Tender Portal Only.	Rates to be entered at e-Tender Portal Only.	Rates to be entered at e-Tender Portal Only.
2	Installation, testing & commissioning of New 11 KV HT connection on 11/0.433KV, 315 KVA Transformer at Mini Dairy Plant, Jhabua.	1	Nos.	Rates to be entered at e-Tender Portal Only.	Rates to be entered at e-Tender Portal Only.	Rates to be entered at e-Tender Portal Only.
	Total Amount incl. GST.					

Note - Rates to be entered at e-Tender Portal Only.

Section VI -

Special Condition of Contract

Special Conditions:

1. If needed, Negotiations will be done for prices and as well as terms & conditions; only with the bidder who offers the lowest rate (L1).
2. The tenderer shall not sublet the contract or assign to any other party or parties, the whole or any portion of the contract without prior written permission of purchaser.
3. No person or firm is permitted to submit more than one tender under different names. If found, the bid of all involved bidders/firms shall be rejected.
4. If for any reason the successful bidder refuses to accept purchase order / fails to supply as per purchase order / backs out at a later date, in Such Case the ISDS reserve the right to cancel the order and make purchases from other available alternate sources, at the risk and cost & expenses of the defaulting bidder supplier and firm could be blacklisted for all future dealings. Also, the EMD/Security deposit would be forfeited. No further correspondence will be treated/accepted regarding this tender.
5. The work shall be carried out as per latest MPPKVVCL specifications only.
6. The work not as per Electrical Specification in force shall be rejected.
7. The successful tenderer shall make his own arrangement for supply of material and electricity power at their own expense as required for the execution of work.
8. The tendered shall have to arrange all facilities for the inspection of the work and to arrange for the work from authorities government agencies.
9. The successful tendered shall make his own arrangement for transport of all materials.
10. The work “as described” as specified as shown “as directed” as approved “ or” “ as required” shall be meant as described in specification, schedule of quantities and other tender documents and as directed of approved by MPPKVVCL.
11. The Contractor shall Have “A” Class valid Electrification Licenses.
12. The Contractor should bring all the required for work at site No material will be provided to contractor from department and got them checked by Engineer-inCharge.
13. Substation to be installed properly by following all safety rules of government.
14. All permissions and other requirements to execute the work like drawing, plannings, inspection of govt. officials etc will be complete responsibility of the bidder only

Section IV -
TECHNICAL SPECIFICATION
FOR

**“Supply, installation, testing & commissioning of New 11 KV HT
connection on 11/0.433KV, 315 KVA Transformer at Mini Dairy
Plant, Jhabua.**

TECHNICAL SPECIFICATION FOR
New 11 KV HT Connection on 11/0.433KV, 315KVA Transformer.

Sr. No.	Description of Item	Unit	Qty.	Rate	Amount
1	Supply of support for over headline on H Beam of I.S. standard Including drilling of Required hole etc. complete as required.				
i	R.S. Joist 175x85-19.3kg/metre 9 mtr	No	1		
ii	H-Beam152x152mm, Stdweight37.1Kg/Mtr 11mtr	No	6		
2	Prima coat over new steel and other metallic surface with red oxide zinc chromide paint complete with supply of material labour etc. including preparation of surface.	Ltr	15		
3	Prima coat with aluminium paint, brushing complete with material and labour Including preparation of surface.	Ltr	15		
4	Erection of RS Joist pole/'H' beam/steel tubular/steel rail pole of length exceeding10 metres but not exceeding 15 metres in cement concrete M-10(1cement:3coresand: 6 graded stone aggregate 40mm nominal size) base, foundation, muffing including Excavation and back refilling etc. as required.	Each	7		
5	Supplying and erection of stay set complete with 16mm.dia 1.8 metre long stay rod, turn buckle, anchor plate of size 200mm x 200mm x 6.0mm, stay clamp, bow tightener,7/3.15 dia G.I. stay wire etc. in cement concrete M-10 (1 cement : 3 coarse and : 6 graded stone aggregate 40mm nominal size) foundation including excavation And back refilling etc. as required.	Each	2		
6	Supply & fixing anti climbing device with 2ply G.I. barbed wire1Kg. per pole complete As per MPPKVVC. Specification.	Each	6		
7	Supply, laying and fixing of G.I. earth coil of 4 mm dia G.I. wire having 120 turns of Nearly 50 mm dia. and 3mt. long tail in existing pit duly earthed with pole etc complete as required as per specification.	Each	7		
8	Supplying and fixing 33/11/0.4KVenameloated Danger board size 200x250mm with clamp on existing HT/LT structure/poles.	Each	6		
9	Supplying, installing, testing and commissioning of11/0.4 KV 3 Phase 50 cycle oil immersed, naturally cooled, outdoor type transformer connected delta on H.T. side and star on L.T. side, dehydrating silica gel breather on eye level, rating and diagram plate, two earthing terminal, lifting lugs, oil level gauge, drain valve with plug, temperature not exceeding 50°C on load, oil filling hole with plug, four unidirectional roller, arcing horns, explosion vent, terminal arrangement bushing on H.V. side and cable box on LV side, first filling of oil up to desired level and transformer installing on existing structure with all required materials arrangement as required ISI marked & as per IS specification, hand operated off load tap changer switch above 100 KVA, oil conservator with drain valve, plug 63 KVA and above. (Copper Wound 315KVA Energy efficiency level-2 (Newlevel-1))	Each	1		

10	Supplying, installation, testing and commissioning of triple pole outdoor type 11KV/33KV vacuum circuit breaker with outdoor control & relay panel with numerical static relay for feeder protection (1F). The installation of VCB shall be carried out in accordance with IS: 3072. The VCB shall be mounted on suitable size duly painted MS channel/angle iron structure with nut bolts and washer. The structure shall be fixed on existing cement concrete foundation. The complete work should be done as per IS specification. (11KV630AVCB)	Each	1		
11	Supplying, installation, testing and commissioning of single phase C.T./P.T. outdoor type 11KV/33KV with terminal box. The C.T./P.T. shall be mounted on existing structure fabricated with suitable size MS channel/angle iron structure with nut bolts and washer duly painted. The structure shall be fixed on existing cement concrete foundation as per IS specification as mentioned below. (11KV CT outdoor type 200-100/5Amp)	Each	3		
12	Supplying, installation, testing and commissioning of single phase C.T./P.T. outdoor type 11KV/33KV with terminal box. The C.T./P.T. shall be mounted on existing structure fabricated with suitable size MS channel/angle iron structure with nut bolts and washer duly painted. The structure shall be fixed on existing cement concrete foundation as per IS specification as mentioned below. (11KV/110V single phase PTs Oil immersed)	Each	3		
13	Supplying, installation, testing and commissioning of indoor control relay panel shall consist of ammeter, voltmeter, selector switch, auxiliary relays for anti pumping device, trip and alarm of buchholz relay, oil and winding temperature circuit, electronic heater, 230 V AC to 110 V DC power pack with charging equipment for closing, tripping and indication, triple pole IDMTL two O/C and one E/F delay with current setting range 50-200% and 10-50%, push button high speed trip relay etc. complete as per IS specification.	Each	1		
14	Supplying and erection of single piece nonlinear resistor polymer type lighting arrester (set of 3 nos) for 3 wire, 11 KV overhead lines/sub-station with rated voltage of 9KV (rms) with a nominal discharge current rating of 10 KA and complete with galvanized clamping arrangement, G.I. bolts, nuts, washer etc. as required.	Set	1		
15	Supplying, installing, testing & commissioning of outdoor H.T., AB switch assembly set gang operated with brass contact parts, including required GI pipe operating rod, handle & locking arrangement on On-Off position conforming to IS complete with required material and installing on existing DP structure to complete the job as required as per specification. (Set of 3 nos.) (11 KV, 400Amp)	Set	1		
16	Supplying, installing, testing & commissioning D.O. fuse assembly with brass part contact for 33 or 11/0.4KV DP Structure set of 3 Nos. with fuse barrel i/c required fuse element & other materials as per specification on existing D.P. structure as required. (11KV)	Set	1		
17	Supplying and erection of 11KV (5KN) polymer pin insulator complete with long steel Head G.I. pin, nut, washer etc. as required.	Each	8		

18	Supplying and erection of 11 KV (45KN) Polymer disc insulator for 11KV overhead lines With galvanized insulator fittings, ball and socket type, and complete with galvanized strain clamp, bolts, nuts washer etc. as required.	Each	18		
19	Supplying and drawing all aluminium alloy conductor (AAAC) of approved make conforming to IS 398-1979 Pt. IV, including binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required including clearing of obstacles (if any) (AAAC0.075sq inch(80sq. mm Al. EQ.)-(Raccoon))	Km.	0.18		
20	Supply and erection of approved make safe earthing electrode consisting pipe-in-pipe technology as per IS 3043-1987 made of corrosion free G.I. pipes with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for effective and maintenance free earthing in earth pit of minimum bore dia. 150mm size, as mentioned below: (With 3 metre G.I. pipes having outer pipe dia of 50mm having 80-200 micron galvanizing, Inner pipe dia. of 25mm having 200-250 Micron galvanizing, connection terminal dia. of 12mm in nominal soil with 50 kg (two bag) back filling bentonite compound UL listed and confirm to relevant International /Indian standards around electrode upto ground level.)	Each	12		
21	Supply and installation of poly carbonate heavy duty pit cover tested for 5000Kg SWL for earth electrode at ground level size 300x300x155 mm with lockable lid.	Each	12		
22	Supply and laying 25mmX5mmG.I.strip at 0.5 metre below ground level as strip earth electrode including jointing etc. as required.(25x5 mm G.I. strip)	Mtr.	150		
23	Supply of approved high-tension XLPE cable (conforming IS-7098/II/85) as per ISI standard 3 core armoured with alu. solid/stranded conductor ISI marked as required (3 core XLPE cable 11Kv grade 120 sq. mm.)	Mtr.	15		
24	Providing & Making cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 33KV/11KV 3core XLPE alum. conductor cable as required as per specification and as per accepted standard including connection testing complete. (Heat shrinkable joint, kit 11KV XLPE, 3x70-120sq.mm.)	Each	2		
25	Supply of XLPE insulated power cable (conforming IS-7098Part-I) 1100Vlt grade, 1 core/ 2core/3½ core/4 core ISI marked with alu. stranded/solid conductor (1Cx300Sqmm) Armoured Cable	Mtr.	30		
26	Supplying and fixing heavy duty Brass compression cable gland for P.V.C. insulated armoured cable with brass washer, rubber ring complete erected with cable and lead connection etc. as per specification complete.(Gland size 19mm, 25mm)	Each	12		
27	Supply of XLPE insulated FR-LSH heavy duty power cable conforming IS-7098 (Part-1) 1988, 1100 Volt grade, 2/3/4/8/10/12 core ISI marked with copper stranded/solid conductor.				
i	Armoured 2 core, 2.5sq.mm.	Mtr.	30		
ii	Armoured 4 core, 2.5sq.mm.	Mtr.	30		

iii	Armoured 8 core, 2.5 Sq. Mm.	Mtr.	30		
iv	Armoured 12 core, 2.5 Sq. Mm.	Mtr.	45		
28	Laying of LT Aerial bunched XLPE cable of size 1X120+1X16+1X70 Sqmm (Insulated Neutral messenger)	Mtr.	35		
29	Supply, fabrication and erection of angle/channel/flat iron fitting for overhead line & sub-station etc such as 'D' bracket, cross arms, top clamp, 'V' cross arms, back/support clamp or other similar work etc. including nut bolts of required size, making holes, fabrication, welding, cutting, etc. and painting with one coat of red oxide paint & two coat of aluminium paint as required as per specification.	Kg.	800		
30	Supply, fixing & commissioning of LT Distribution box with 1.2mm thick MS powder coated sheet, 500 A MCB on Incomer & 4 No 250 A HRC fuse base including 200 A HRC fuse, for 315 KVA Transformer.	No	1		
31	Supply & fixing fencing of chain link mesh 100x100mm, 12 SWG GI wire for electric sub-station switch yard including single post of angle iron size 50x50x5mm, 2.5 mt long should be provided upto 2.00 mt. apart or as required with angle iron/ flat iron members/cross members including mesh fix on frame and erected between the post. The angle iron post shall be erected in cement concrete M-15 (1:2:4) (20mm graded metal) foundation, cement concrete, excavation of pit and refilling the same. The fencing shall be provided with one entrance gate including locking arrangement as required as per specification. The height of fencing shall be 2mt. above ground level. Fencing shall be painted with required shade.	M2	76		
32	Designing and construction of pedestal (plinth) for transformer of desired size including excavation in hard rock/soft rock, base concrete M-7.5 (1:4:8), 20mm metal and pedestal of RCC M-15 (1:2:4) including required tar steel reinforcement for required height as per IE rules from base concrete including shuttering and finishing with 10mm thick plaster in cement mortar 1:3 curing & white washing etc. complete as per specifications.	M3	8		
33	Collection and spreading of metal dust, murum and 40 mm graded hard metal in sub-station yard or as required as mentioned below - (Metal 40 mm)	M ³	7.8		
34	Supplying and fixing crimping type alum. lugs as per I.S.S. specification suitable for following size of cable with alu./ copper solid / stranded conductor evenly crimped with high/pressure tool and connected to switch gear /bus / M.C.C.B./M.C.B. etc. as Required complete.				
I	90sq.mm.	Each	4		
ii	300sq.mm.	Each	12		
		Total			