

PUNJAB STATE ELECTRICITY BOARD

CORRIGENDUM

SUBJECT: EXPRESSION OF INTEREST (EOI) FOR EXECUTION OF 40 Nos. HVDS SCHEMES THROUGH OUT THE STATE OF PUNJAB

Pre-Bid conference on the above subject was held on 21.12.2007. On the request of the participants, the date for submissions of Detailed EOI along with documents confirming experience of the technical and financial requirements is hereby extended upto 4th January, 2008. The same may be submitted before the due date at the address indicated below: -

Address for communication and submission of EOI.

ENGINEER-IN- CHIEF /RE&APDRP,
F-2, SHAKTI VIHAR, PATIALA.-147001.
ce-re @ psebindia.org

Fax No. 0175- 2224168
Tel No.0175-2215846

The additional information such as copy of work order containing General terms and conditions, Price Schedule details, charges for clearance from Chief Electrical Inspector and approved vendors list as requested by the participants is now available at PSEB's website www.psebindia.org under the same link.

All eligible firms including those who could not participate in the said pre-bid conference are requested to submit hard copy of their documents by 4th January, 2008 upto 5.00 P.M at the address mentioned above. However the same can also be e-mailed at the above-mentioned address before 4th January, 2008 alongwith submission of hard copy.

Sd/-

Dy. Chief Engineer/REP,
For EIC/RE & APDRP,
PSEB, Patiala.

PUNJAB STATE ELECTRICITY BOARD

WORK ORDER CUM CONTRACT AGREEMENT NO. _____ DATED: _____

From

ENGINEER-IN-CHIEF /RE&APDRP
REP Directorate
F-3, Shakti Vihar
PATIALA-147001

Fax No. 0175- 2224168
Tel No.0175-2211718(Direct)
PBX Exchange 0175 - 2220777/83
(Extn. 4389)

Regd. /A.D

To

Memo. No:

Dated:

Subject: - Work Order for supply of material connected to the erection, testing & commissioning of new 6.3/10/16/25 KVA distribution transformers (except 25 KVA Distribution Transformers, ACSR conductor and Shackle Insulators to be supplied by PSEB out of the material to be dismantled) and conversion of LT line to 11 KV line on turnkey basis on all the agricultural consumers fed from 3 phase 3 wire feeders under _____ Division schemes of PSEB under HVDS as per PSEB Tender specification No. Q-_____

Ref: - Your tender against PSEB Tender Specification no. _____

Dear Sirs,

Please refer to your Tender reference no. _____ dated _____ and all other correspondence exchanged in this connection, I am directed to place the detailed Work Order on you for complete supply of material, its erection, testing and commissioning of new 6.3/10/16/25 KVA Distribution Transformers (except supply of 25 KVA Distribution Transformers, ACSR conductor and shackle insulators required for LT fuse unit to be reused out of the material to be dismantled) dismantlement of some material and conversion of LT line to 11 KV line on 100% turnkey basis on all agriculture consumers fed from ___ nos. 3 phase 3 wire feeders (list attached as Annexure-‘IV’) under _____ Division of PSEB under HVDS schemes, of Punjab State Electricity as detailed in our Tender specification No. _____ on the following terms and conditions. Quantities of the material as mentioned in Annexure-III may vary (increase or decrease) depending upon site requirements and any other changes required to be made to carry out the work. The scope of work may be considered to be amended to that extent accordingly.

1.0 **Scope of work:**

The scope of work shall include the following major activities: -

- 1.1 Supply of material, its erection, testing and commissioning of new 6.3/10/16/25 KVA transformers (25 KVA dismantled DT's to be reused) and conversion of LT line to 11 KV line.
- 1.2 Dismantlement of material (which shall not be required in view of 1.1 above) and its transportation to PSEB stores through concerned JE.
- 1.3 Any line crossing and/or Highway/road crossing required to complete the work shall be deemed to have been included in the scope of work, no extra payment for this will be made on this account. Any fee etc. for it, if required to be paid to Highways authority or any other agency, shall be borne by the Contractor.
- 1.4 The source of supply of material shall be the approved vendors of PSEB (Annexure-V) and/or other firms, which PSEB may approve if considered and found, fit. The bidder shall inform the PSEB about the source of supply of material. The material/ equipment shall be dispatched from the source only after inspection and approval by authorized representative of Board. Installation of material will be as per approved drawings and tender specification. The supplier of material will also supply the type test certificates at the time of inspection-call of items, which will be further examined by the inspection authority. The inspected material received at contractors site store shall be inspected and verified by concerned ASE/Sr. XEN APDRP before use on work and shall be further subjected to random checking by Technical Audit organisation.
- 1.5 Under this scheme, existing LT line feeding to the AP consumers shall be converted to 11KV line and new 11KV Pole mounting S/Stn. of rating 6.3/10/16/25 KVA shall also be erected for individual AP consumers as per SI-15 dt. 9.1.91, 50 dated 31.10.2005 and SI-51 dated 25.08.2006 attached as Annexure-J, K & L with the specification. The work shall be carried out strictly in accordance with the approved sketches (clause no.12).
 T-off shall not be allowed from the single Pole Sub Station. T-off shall be taken from the previous pole. During survey/erection, crossing of HT to HT lines after HVDS of the same feeder are to be eliminated for which sketch shall be approved by concerned ASE/Sr. XEN/DS before start of work by the contractor.
 11 KV Pole Mounted Sub Station of rating 6.3/10/16 KVA shall be erected on the existing PCC Poles irrespective of the length of the service cable. The revised drawings of the 11 KV Pole Mounted Sub Station for 6.3/10/16 KVA rating Distribution Transformer stands already supplied to you vide this office memo no. 4132/RCZ-396 dated 5.12.2007.
- 1.6 As mentioned in SI-50 (Annexure-'K' of specification) L.T jumpers of existing transformers are to be replaced by H.T jumpers to the first existing common pole to be converted into H.T. The H.T jumpers for the nodal point as well as for the small capacity distribution transformers to be installed shall be of bare ACSR conductor (to be reused out of the dismantled) with insulator supports.
- 1.7 GSC connection running on existing lines shall now be fed from the nearest Single Pole Mounted Distribution Transformer to be installed against HVDS. For this purpose the load of the GSC consumer shall be marked on the sketches and the proposal to feed such connections shall be shown on them during survey. However the work relating to the feeding such GSC connections from the nearest DT shall be carried out by Distribution Organisation and no extra charges shall be paid on this account.

1.8 Final Checking, Testing and commissioning

After completion of works, final checking of lines shall be done by the PSEB's officer or its authorized agency to ensure that all the works executed have been done according to specifications approved by PSEB. All the works shall be thoroughly inspected keeping in view the following main points: -

- a) All bolts are properly tightened and punched/tack welded.
- b) The stringing of ACSR is to be done, as per approved sag and tension Charts and contractor shall ensure that desired clearances are clearly available.
- c) All conductors and earth wire accessories are properly installed.
- d) All other requirements to complete Work are properly installed.
- e) The insulation of line as a whole is tested by the Contractor by providing his own equipment, labour etc. to the satisfaction of the PSEB.
- f) The poles are properly grouted with ogger and kept in plumb position.
- g) The clearance from Chief Electrical Inspector, Punjab, has to be obtained for lines/distribution transformers for satisfactory operation before commissioning. The necessary fee required to be deposited with CEI, in this regard shall be borne/deposited by the contractor as the same is included in the prices.

2.0 Schedule of Prices

The prices are for the execution of works as covered in the "Scope of Work" on the Turn-Key-Basis till completion. The rates for the supply, erection & dismantlement of various items required for the completion of works on turnkey – basis shall be as per Annexure-'III' (A), 'III' (B), and 'III' (C), respectively and the total cost based on the tentative quantities mentioned in these annexures shall be as under: -

Sr. No.	Name of the Division with Scheme Code	Supply of Material (Rs.)	Erection of material (Rs.)	Dismantlement of material (Rs.)	Total (Rs.)
1.	_____ Division schemes (Code No. _____)				
	Grand Total				

(Rs. _____ only.)

- 2.1 The tentative cost of the total work order including premium based on the quantities and rates as given in Annexure-III (A), III (B) & III(C) works out to be Rs. _____.
- 2.2 The payment towards supplies/erection/dismantlement shall be made strictly as per actual work executed at site.
- 2.3 Any item not included in the item rate Schedule but required to complete the work shall be supplied / fabricated by the contractor and shall be considered to be included in the scope of work.
- 2.4 The above prices are 'FIRM' inclusive of all taxes and duties as detailed in para 3.0 below and are not subjected to any variation on any account.

3.0 Taxes & Duties

The rates allowed for both material & labour are inclusive of all taxes i. e. ED/VAT/CST/Cess, Works Tax, Service Tax etc. and all charges on account of octroi, terminal Tax and/ or other duties/taxes on material obtained for the work shall be borne by the contractor. Statutory variations in the tax structure after the date of opening of the tender till contractual completion period shall be to PSEB's account. However, exemptions available to PSEB on levy of VAT/Sales Tax etc shall also be available to contractor as they are working on behalf of PSEB since the material is being used for distribution of electricity. For claiming such exemptions, the contractor shall be supplied with requisite exemption certificate(s).

3.1 WORKS CONTRACT TAX (VAT CONTRACT TAX) :-

Work Contract Tax @ 2% or as applicable from time to time shall be deducted from the bills of contractor as required under VAT Act 2005 and the amount so deducted shall be deposited by the Board with the Sales Tax authorities and the contractor shall be required to get any refund from the Sales Tax Deptt. if eligible for the same and shall justify the same to Sales Tax authorities.

3.2 INCOME TAX (TDS)

TDS @ 2.266% or as applicable from time to time shall be deducted from the bills of contractor as required under Income Tax Act and the amount so deducted shall be deposited by the Board with the Income Tax Department. The contractor shall be issued the requisite certificate required for claiming any refund from Income Tax Department if eligible for the same.

4.0 Terms of Payment:

The payment terms shall be governed as under: -

- 4.1 85% payment against supply of material at site shall be made subject to other conditions of Insurance etc. However the procurement of all major items of material by the contractor and payment of the same by PSEB shall be regulated in such a manner that at no point of time, quantity of un-erected material shall not exceed 25% of the total quantity as per work order.
- 4.2 10% payment out of the balance 15% payment for the supply of material alongwith 95% payment of erection/dismantlement cost there of will be made after erection of material through running bills.
- 4.3 Balance 5% payment of supply, erection & dismantlement of material will be made after satisfactory erection, commissioning and handing over of the entire allotted work to PSEB as per the work order.
- 4.4 The above payment terms shall be further regulated as under:
 - 4.4.1 The contractor shall bring the material strictly in erection sequence and directions of the Engineer-in-charge i.e. concerned ASE/Sr.Xen APDRP.
 - 4.4.2 The advance payment for all the items brought at site by contractor shall be allowed/ released as per clauses, 4.1 4.41, 15.0 of this W.O. & 4.0 of general terms & conditions attached as Annexure-I.
 - 4.4.3 The contractor shall indemnify the Board on non- judicial stamp paper against safe custody of the said material and that the same material will be used for execution of work for which the payment has been made.

5.0 Mode of Payment:

- 5.1 Usual procedure for payment to the contractor shall be followed however, before payment, the measurement of the works executed by the contractors shall be recorded by the JE of respective Cell (under EIC/ RE & APDRP), check measured by concerned AEE/AE of respective Cell (under EIC/RE&APDRP) and shall be further countersigned by Addl. SE/ Sr. XEN (under EIC/RE&APDRP) . 20% of the major items i.e. PCC Poles, Distribution Transformers and steel items etc. should also be further test checked by respective Addl. SEs/ Sr. XENs (under EIC/RE&APDRP). Shortages detected, if any, will be to the contractor's account. All payments pertaining to these works shall be made by AO/ REP, F-2, Shakti Vihar, PSEB Patiala on receipt of duly verified and approved bills of contractors from concerned Addl. SE/ Sr. XENs (under EIC/RE &APDRP) directly.
- 5.2 Advance payment to the contractor for the material brought at site will be released only after site joint verification of the material received before erection.
- 5.3 Payment to contractor for erected works shall be released after measurement of erected works by representative of EIC/ RE&APDRP as per details mentioned in para 5.1 above.

6.0 Approved Vendors

- 6.1 The material has to be got arranged/ supplied from approved vendors with whom PSEB has been placing order in the past. List of such vendors is enclosed at Annexure-'V'. However depending upon the performance of suppliers/ merit of the case or otherwise, Board reserves the right to make amendments in the approved vendor list.
- 6.2 In case of shortage of PCC poles in the region, the contractor may procure PCC poles both 8 meter of Haryana Power Utilities specification and can also procure PCC poles from firms other than approved vendors of PSEB by getting prior approval of PSEB, before placing any order on the firm. PCC poles can also be procured from manufacturers of poles which have already supplied PCC poles 8 & 9 Mtr. long to PSEB/ Haryana Power Utilities like UHBVNL, DHBVNL etc. or other reputed DISCOM with PSEB Specifications or Haryana Power Utilities Specifications. However, representatives of SE/MS, PSEB, Patiala shall carry out pre- dispatch inspection.
- 6.3 PCC Poles can also be purchased /procured from the approved vendors of PSEB in case said vendor enhance their production capacity and do not affect the supply schedule of PSEB and such approved vendors give in writing that they have enhanced their capacity of manufacturing the poles and they will adhere to the supply schedule of PSEB.
- 6.4 The procurement of 11 KV Pins, HT/LT Insulators, HT /LT Cables, GSS Wire, GSL Wire from vendors other than approved vendors of PSEB can be made subject to the condition that such vendors have executed purchase orders placed by PSEB/ other SEBs/ Power Utilities during last 5 years. However, the representative of SE/MS, Patiala, shall inspect such material.

7.0 SECURITY DEPOSIT.

- 7.1 The contractor shall permit owner/ Engineer at the time of making any payment to him for works done under the contract to deduct such sum as will (with the earnest money deposited by him) amount to 5% (five percent) of gross value of work done. Such deduction is to be held by owner/ Engineer-in-charge by way of Security Deposit. All compensation or other sums of money payable by contractor to the owner/Engineer under the terms of this contract may be deducted from or paid by the sale of sufficient part of security deposit or from any sums which may be due or may become due to the contractor by owner/Engineer on any account whatsoever and in the event of his security deposit being reduced by reasons of any such deduction or sale as aforesaid, the contractor shall within 10 days thereafter make good in cash any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof. The security deposit shall be refunded to the contractor after the

expiry of defects liability period, which is twelve months from the date of handing over the works to PSEB or payment of final bill whichever is later. No interest shall be payable to the contractor on the amount of security deposit. The security deposit is to be deducted on the gross amount of running bill. The earnest money deposited at the time of tender will be treated as part of the security deposit.

- 7.2 (i) Against Security of 5% to be deducted from the bills of contractors, they have the option of depositing BG valid up to warranty/ defects liability period for the same amount (minimum 5% of Work Order value).
- (ii) BG should be of scheduled Bank as per prescribed procedure of PSEB.

8.0 Inspection

8.1 Inspection of material

8.1.1 Material such as PCC Poles, distribution T/Fs, 11 KV Pins, HT & LT insulators, HT & LT cables, GSL wire, GSS wire & 11 KV GO switches etc. before dispatch to site, will be inspected by the representatives of SE/ MS, PSEB, Patiala at suppliers' works to ascertain that material being supplied is as per PSEB specifications. All testing facilities shall be provided by the suppliers/contractors, free of cost to PSEB. Material consumed/destroyed during testing shall be to the contractor's account. After testing/ inspection, the PSEB Inspecting Officers/ officials shall properly seal the material so that the same could be well identified after receipt of material at site. Minimum two weeks notice needs to be given by the contractor to PSEB for arranging the inspection. Copy of complete 'Type Test' certificate as per relevant ISS wherever specified shall be furnished along with Inspection Call. The inspection Call shall be addressed to EIC/ RE&APDRP.

All other material, brought at site by the contractor, will be inspected, before erection thereof, by concerned ASE/Sr.Xen APDRP to ascertain that the material being supplied is as per PSEB Specifications.

PSEB reserve the right to waive off pre-dispatch inspection in respect of any material subject to furnishing of Routine/ Acceptance test as per applicable ISS by the supplier to ensure/ satisfy that material to be supplied is as per PSEB Specification.

8.1.2 The random checking of the material after receipt of material at site or during execution of work shall be carried out and if the material is not found as per PSEB specification, the contractor will have to replace the same to PSEB, free of cost. Board also reserves the right to get the material rechecked or sample tested from approved test house or at the works of neutral agency. Such testing charges shall be to the contractor's account. It will be entire responsibility of the contractor to supply the material as per PSEB Specification.

- 8.1.3
- i) In respect of items not covered under inspection by representative of SE/ MS, PSEB only physical inspection may be carried out by concerned ASE/SR. Xen APDRP at site before and in specific emergent cases with the approval of EIC/RE & APDRP after erection of material.
 - ii) The contractors on whom work orders are being placed may be asked to submit a test certificate in respect of raw material utilized by them in the fabrication of these items as per relevant ISS. In case the Contractor does not procure raw material from approved vendors, then he shall submit test certificates of such material procured. If it is not possible even to furnish test certificate, then ISI marked material may be used for which no documentation may be insisted upon.
 - iii) In case of the Work Orders where length of LT cable is less than 1 KM, the contractor may be authorized to use ISI marked cable without inspection, which shall only be verified physically at site by concerned ASE/ Sr. XEN APDRP.
 - iv) In case of other items where the requirement is small in No. & if the bidder finds it difficult in procurement of same and on the other hand PSEB is in a position to provide the same, then such items shall be made available by PSEB and for which no payment shall be made to the contractor.

8.1.4 The following procedure shall be adopted in respect of Distribution transformers: -

- i) Two additional, numbered, polycarbonate one piece seals (sample to be provided) be fixed on two corners of Distribution Transformers top cover in addition to existing practice of providing two lead seals on other two corners. In addition to above, the name plate be also provided with two, numbered, polycarbonate seals to avoid chances of removal of the name plate and its fixation on some other transformer.
- ii) Testing of no load and full load losses shall be conducted at manufacturer's premises on the whole lot (100%) of Distribution Transformers offered for inspection in addition to existing practice of conducting acceptance tests on 30% of the lot.
- iii) After receipt of Distribution Transformers in the PSEB Central Stores, one no. Distribution Transformer of each lot shall be cut open at any stage to ascertain the quality of core used, apart from the existing practice of cutting open of one transformer, out of entire lot, during pre-despatch inspection.
- iv) The Distribution Transformers to be used against this work order shall now be routed through PSEB stores instead of Stores of the contractors, so that testing of no load and full load losses of the transformers could be carried out by the means of Power Analyzers being installed in all the Central Stores.
- v) If a Transformer, on testing after its receipt in PSEB Stores, is found not as per specifications, a penalty of Rs. One Lac. Per lot shall be imposed apart from rejection of the lot. The firm shall be blacklisted in case of second default.

8.2 **Fake Inspection Call.**

In case no material (against any individual item) is offered to the Inspecting Officer after giving inspection call, for inspection due to one reason or the other, you shall be required to remit expenditure on TA and DA of the Inspecting Officer(s) @ Rs. 1000/- (within Punjab) and Rs. 3000/- (outside Punjab) per visit of each Officer. Besides this recovery, against each such fake call a letter of warning shall be issued and it shall be counted towards your performance for all intents and purposes. These charges shall be Rs. 2000/- and Rs. 5000/- respectively in case material fails during inspection.

9.0 **Completion period**

The entire work in all respects shall be completed within 7 months including the mobilization period of one month from the date of issue of W.O.

10.0 **Dispatch Instructions.**

The material required for completion of the work shall be dispatched to site after satisfactory pre- dispatch inspection of the material. No material for which pre- dispatch inspection is required shall be dispatched unless inspected by PSEB or inspection waived off and routine/ acceptance test certificates got approved from PSEB and if dispatch is allowed by Engineer-In-Chief / RE&APDRP, PSEB, Patiala.

11.0 **Consignee**

- 11.1 The contractor himself will be the consignee for the material to be brought at site.
- 11.2 The contractor shall be required to make his own arrangement for safe storage of material at site.

12.0 **Drawings**

The work shall be executed strictly according to the authenticated sketches signed by ASE/Sr.Xen/DS and concerned ASE/Sr. Xen APDRP. The copies of drawings for G.O switch and all other items to be fabricated for these works may be collected from respective ASE/Sr. Xen APDRP (Zones).

13.0 E.P.F.

i) The contractor will supply its Employee Provident Fund Code No. before execution of Contract Agreement with P.S.E.B. and will submit to P.S.E.B. clearance certificate from the Regional Provident Fund Commissioner authorities from time to time. The final bill and security of the contracting agency will be released only after the contractor supplies the final clearance for the project from the Regional Provident Fund Commissioner Authorities.

(ii) Labour Laws: -

Contractor shall be responsible to comply with all the labour laws / regulations enforced from time to time by the appropriate authorities. Contractor will supply the labour license/ exemption certificate from Labour Department before the commencement of work.

However any delay in submission of such documents covered under Para (i) to (ii) above shall be to bidder's account.

14.0 Other General Terms & Conditions

All other General terms and conditions shall be as per Annexure-I, which is a part of this work order cum contract agreement.

15.0 Acceptance of Work Order Cum Contract Agreements

This work order alongwith Annexure I to VI shall form the contract agreement. Payment will be released only after the un-conditional acceptance of the work order has been received in this office and contract agreement in this respect duly signed on non-judicial stamp paper of requisite amount on the performa as per Annexure-II. The work order cum contract agreement shall be made in duplicate duly signed on each paper (with stamp of the firm) in token of the acceptance of work order cum contract agreement and shall be submitted to this office. One copy of the contract shall be retained by this office and the second copy shall be returned to you.

16. Acknowledgement

Please acknowledge the receipt of this work order cum contract agreement within 7 days positively.

Notes: -

- i) This issues with the approval of competent Authority copies of which are placed at _____ of file _____.
- ii) ASE/Sr.Xen, APDRP and the contractor shall jointly check the sites to authenticate the material erected at site with the sketches being supplied with the Work Order. If there is no variation, the list of material to be reused and to be dismantled shall be prepared and authenticated by ASE/SR. XEN APDRP. However if there is any variation in the site conditions, an amended sketch shall be prepared by them along with the list of material to be reused/dismantled. ASE/Sr.Xen, APDRP shall submit the amended sketches and these lists to ASE/Sr.Xen./DS for updating and comparison with CLR's. ASE/Sr.Xen./DS shall return the amended sketches and the list of material duly authenticated within 15 days from the date of receipt of these documents. In case ASE/Sr.Xen./DS fails to comply with these instructions within the stipulated period of 15 days, the amended sketches prepared by ASE/Sr.Xen, APDRP and the contractor shall be considered as approved.

- iii) 1 nos. CD's of the works containing line sketches of 11 KV feeders and details of the L.T lines having DT's are enclosed herewith.
- iv) The Photocopies of the drawings for the items to be fabricated is enclosed herewith as Annexure-VI.

Encl: As above

Annexure- I (3 pages)

Annexure- II (1 pages)

Annexure- III (5 pages)

Annexure- IV (__ pages) Not being put up on website

Annexure- V (__page) Not being put up on website

Annexure- VI (__page) Not being put up on website

Additional Information's 2 pages

Fee schedule of CEI 1 page

Dy. CE./REP,
PSEB, Patiala.

ANNEXURE-I

GENERAL TERMS & CONDITIONS

1. **RIGHT OF PATH:**

SEB will make available the right of path without any hindrance/ delay.

1.1 **PTW**

During erection/ dismantlement, if the contractors require any shut down, concerned Addl. SE/ Sr. XEN/ (under EIC/ RE&APDRP) shall co-ordinate with the Addl. SE/ Sr. XEN Dist. Divn. & arrange the shut down.

1.2 **Handing over**

Each completed and commissioned lines will be taken over 11 KV feeder wise by PSEB immediately after commissioning.

2.0 **APPROVAL OF INSTALLATION:**

All the electrical works shall conform to the Indian Electricity Rules – 1956. The contractor shall be responsible for obtaining the clearance of all the electrical installations from Chief Electrical Inspector, Punjab and the contractor shall be responsible to deposit the requisite fee with CEI to obtain its clearance for which no extra payment shall be made by the PSEB. Copy of the clearance certificate shall be furnished to PSEB before energizing/ commissioning of the works.

3.0 **COMPLETION OF WORKS:**

3.1 The execution of works is on Turn- Key-Basis and the contractor shall be responsible for providing all necessary material which is not indicated in the offer but required and is essential for completeness and successful testing and commissioning of the work within the contract price.

3.2 Further the complete sketch of each feeder indicating the Railway crossing, Forest area, other Electrical Transmission or distribution lines, Telecommunication lines, crossings etc. shall be supplied by the contractor before handing over the works to PSEB. The sketches shall also indicate the bill of material, route maps with appropriate references/ benchmarks and villages covered etc.

4.0 **INSURANCE OF THE MATERIAL:**

The Contractor shall be required to provide insurance cover at his cost, valid till the handing over of works to PSEB, against damage / theft for any reasons thereof, during storage, erection and commissioning of all the material and such Insurance Policy shall be submitted by the Contractor before any payment is made by the Board to contractor. The contractor shall be responsible for lodging the claims, if any, and also get the same settled with insurance company at his own level besides making good the material/works involved in such claims within reasonable time to the satisfaction of Engineer- In- charge to avoid any delay in the completion of work/contract. No extra payment shall be made by the Board for any loss to the contractor in settlement of such claims by Insurance Company.

5.0 RECISION OF CONTRACT:

As per clause 3.21 of Section –III of Tender Specification.

6.0 CONTRACT AGREEMENT:

A detailed order issued in accordance with agreed terms and conditions and accepted/ acknowledged by the firm shall itself form a valid contract along with subsequent amendments, if any, and shall be constructed and operated as such in items of the India Contract Act, 1872 as amended upto date. The detailed work order shall be termed as Work order-cum-contract agreement. The contract shall be made in duplicate & one copy will be retained by each party.

7.0 ARBITRATION:

- (a) If any question, difference or objection, whatsoever shall arise in any way connected with or arising out of this instrument or the meaning or operation of any part thereof for the rights, duties or liabilities of either party then save in so far as the decision or any such matter is herein before provided and has been so decided every such matter including whether its decision has been otherwise provided for and/ or whether it has been finally decided accordingly, or whether the contract should be terminated or has been rightly terminated and as regards the rights and obligations of the parties as the result of such termination shall be referred, for sole arbitration of the nominee of the Board, who in case of dispute involving an amount exceeding Rs. 50,000/- shall give a reasoned award and his decision shall be final and binding and where the matter involves a claim for the payment or recovery or deduction of money, only the amount, if any awarded in such arbitration shall be recoverable in respect of the matter so referred. If the matter is not referred to arbitration within 180 days of the date of completion of work or payment of the final bill which ever is later all the rights and claims under the contract shall be deemed to have been forfeited and absolutely barred.
- (b) Upon every or any such reference the cost of and incidental to the reference and award respectively shall be in discretion of the Sole arbitrator so appointed who may determine the amount thereof or direct the same to be taxed as between solicitor and client or as between party and party and shall direct by whom and to whom and in what manner the same is to be borne and paid.
- (c) The work under the contract shall be continued during the arbitration proceedings and no payment due or payable by the purchaser/Board shall be with held on account of such proceedings.

8.0 EXTENSION OF TIME:

- I) If the contractor desire an extension of the time limit for completion of the work on the ground of his having been unavoidably hindered in execution or any other ground, he shall apply in writing to the Engineer-in-Charge and the Engineer-in-Charge may if in his opinion there are reasonable grounds for granting extension, allow such extension (with the approval of competent authority) as he thinks necessary or proper. The decision of the Engineer-in –Charge in this regard shall be final and binding.
- II) For any delay in work on account of act of omission or commission on the part of the Board viz. delay in making alterations, omission, additions, substitutions in original

specifications, drawings, design etc. only extension of time will be agreed for the period so lost and no compensation would be given on this account.

9. FORCE MAJEURE:

If at anytime during the continuance of the work the performance in whole or in part by either party of any obligation under this contract, shall be prevented or delayed by reasons, of any war, hostility, acts of public enemy, Civil commotion, sabotage, floods, explosion, epidemics, fires or other acts of God, strikes and lockout (hereinafter refer to as "eventualities") then, provided notice of the happening of any such eventuality if given by either party to the other within 15 days from the date of occurrence thereof, neither party shall by reasons of such eventuality be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non- performance or delay in performance and the construction of work under this contract shall be resumed as soon as practicable after such eventuality has ceased. Appropriate extension in time of completion shall be granted.

10. WARRANTY:

The contractor is bound to remove defects in executed works, if any, during the execution period and ensure satisfactory functioning of the same for the defect liability period i.e 12 months from the date of handing over to PSEB. Any charges incurred by PSEB on account of replacement of defective material/ equipment during the operation period of one year shall be recoverable from the contractor.

11. PENALTY FOR DELAY:

The time allowed for carrying out the work as entered in the contract shall be strictly observed by the contractor and shall be reckoned from the date on which order to commence work is given to the contractor. The work shall through out the stipulated period of the contract be proceeded with all due diligence (time being deemed to be the essence of the contract on the part of the contractor) and the contractor shall pay as penalty an amount equal to one half percent of the estimated cost of the whole work as shown in the contract for every week, the work remains unfinished after the contract completion period, provided always that the entire amount of compensation to be paid under the provisions of this clause shall not exceed 5 percent of the estimated or actual cost of work whichever is higher.

12. JURISDICTION:

All legal proceedings in connection with this Work Order /Contract shall be subject to the territorial jurisdiction of local civil courts at Patiala only.

13.0 CORRESPONDENCE:

All correspondence will be addressed to the Engineer-In-Chief/
RE&APDRP, F-2, Shakti Vihar , PSEB , Patiala-147001.

Dy. CE/REP
For EIC/ RE & APDRP,
PSEB, Patiala.

ANNEXURE- II

**(Referred to in Regulation-22)
Contract Agreement Form.**

To be entered on a Non- Judicial Stamped Paper of Rs. _____ only.

This contract agreement made this _____ day of _____
in the year _____ between the Punjab State Electricity Board hereinafter called
'Purchasers' and M/s _____
having their Regd. office at _____ hereinafter called 'Contractor' for the supply
and erection/dismantlement of _____ in accordance with Tender Enquiry No.
_____ dated _____ and Contractor's _____
Proposal No. _____ dated _____.

This is in confirmation of the advance acceptances notified in the owner's letter no.
_____ wherein the Owner has accepted the proposal of the contractor for the supply
and erection/dismantlement of _____ as per Work Order No. _____
dt. _____ .

In view of the forgoing, the Purchaser and the Contractor have agreed to the scope of
work and terms and conditions of the order settled between them.

The NIT/ Tender Specification the Contract's proposal and related correspondence and
the Work Order acknowledged/ accepted by the contractor form part of this agreement.

This agreement contains _____ Pages.

In witness whereof the parties here to have affixed their signatures on the day month
and year written as above.

Contractor

Owner

**ANNEXURE-III
PART-A**

TENTATIVE DETAIL OF MATERIAL REQUIRED AND SUPPLY RATES

Name of the Division : _____

Scheme Code: _____

Sr. No.	Description of Material	Units	Matreial Required	Rates for supply of material (Rs)	Supply rates including premium (Rs)	Total Cost of Material (Rs) (col-4x6)
1	2	3	4	5	6	7
1	1.07 M, 11 KV V-Cross Arm	No.				
2	11 KV GI Pins	No.				
3	11 KV Pin insulators	No.				
4	Top hamper	No.				
5	11 KV dead end clamps with fittings without disc insulators	No.				
6	11 KV Disc Insulators for Dead ends	No.				
7	Stay Rod with Elbow	No.				
8	GSS wire of 7/3.15 mm size	Kg.				
9	Guy (Egg) Insulator 9000 KG.	Nos.				
10	Anchor plate (RCC Block)	Nos.				
11	Earthing Rod	Set				
12	GSL wire of 4mm dia.	Kg.				
13	6.3 KVA, 3 Phase Distribution Transformer	No.				
14	10 KVA, 3 Phase Distribution Transformer	No.				
15	16 KVA, 3 Phase Distribution Transformer	No.				
16	25 KVA, 3 Phase Distribution Transformer	No.				
17	G.O. Switch complete with fittings for 6.3/10/16 KVA, 75	No.				
18	G.O. Switch complete with fittings for 25 KVA, 400 Amps.	No.				
19	PCC Poles 9 mtrs.	No.				
20	PCC Poles 8 mtrs.	No.				
21	LT XLPE single core cable 10 mm ² (Aluminium)	Mtrs.				
22	Nuts and Bolts (off sizes)	Kg.				
23	MS Flat. 40x6 mm (Density 1.88 Kg./Mtr.)	Kg.				
24	MS Flat. 50x6 mm (Density 2.36 Kg./Mtr.)	Kg.				
25	MS Angle 50x50x6 mm (Density 4.50 Kg./Mtr.)	Kg.				

26	MS Channel 100x50 mm (Density 9.56 Kg./mtr.)	Kg.				
27	MS Channel & 75x40 mm (Density 7.14 Kg./Mtr.)	Kg.				
28	P.G Clamp (Off sizes)	No.				
29	Aluminium Thimbles	No.				
30	Danger Plate	No.				
Grand Total						

Note : The above list containing the quantity of material required is tentative and can have variation as per site requirement, so the actual quantity shall be determined after proper site verification.

**ANNEXURE-III
PART-B**

TENTATIVE DETAIL OF LABOUR INVOLVED AND LABOUR RATES

Name of the Division : _____

Scheme Code: _____

Sr. No.	Description of Material	Units	Labour Required	Labour Rates (Rs)	Labour Rates including premium (Rs)	Total Cost of Labour (Rs) (col-4x6)
1	2	3	4	5	6	7
1	1.07 M, 11 KV V-Cross Arm	No.				
2	UI clamp (50x6mm)	No.				
3	11 KV GI Pins	No.				
4	11 KV Pin insulators	No.				
5	Top hamper	No.				
6	11 KV Tapping Cross Arm for line/DT's along with dead end clamp and fittings	No.				
7	11 KV Disc Insulators for Dead ends	No.				
8	Stay Set assembly complete	No.				
9	GSS wire of 7/3.15 mm size	Kg.				
10	Guy (Egg) Insulator 9000 KG.	Nos.				
11	Anchor plate (RCC Block)	Nos.				
12	Earthing Rod with GSL, 4mm dia. For earthing of PCC Pole	Set				
13	Unbinding of ACSR Conductor from D-Straps of L.T Line	Km.				
14	Re-sagging of ACSR Conductor on 11 KV Pin Insulators	Km.				
15	6.3 KVA, 3 Phase Distribution Transformer	No.				
16	10 KVA, 3 Phase Distribution Transformer	No.				
17	16 KVA, 3 Phase Distribution Transformer	No.				
18	25 KVA, 3 Phase Distribution Transformer	No.				
19	Mounting arrangement for 6.3/10/16/25 KVA DT's	No.				
20	G.O. Switch complete with fittings for 6.3/10/16/25 KVA, 75/400 Amps.	No.				
21	11 KV Fuse Unit with insulators for 6.3/10/16/25 KVA DT's	No.				
22	PCC Poles 9 mtrs.	No.				
23	PCC Poles 8 mtrs.	No.				
24	LT XLPE single core cable 10 mm ²	10 mtrs. Per DT				
25	LT Fuse Unit with insulators	No.				
26	Earthing set complete along with GSL of 4mm dia. for 6.3/10/16 & 25 KVA DT's	2 No.1 set per DT				
27	Stay set complete along with GSS wire of 7/3.15 mm size	2No.1 set per DT				

28	Egg Insulator 9000 KG.	2 No.				
29	HT XLPE single core cable 10 mm 2 /ACSR (to be reused) for jumpering arrangement for DT's.	20 mtrs. Per DT				
30	HT XLPE single core cable 10 mm 2 /ACSR (to be reused) for jumpering arrangement from Nodal point to Common Pole.	For one nodal point to common pole upto any length				
31	Stringing and sagging of ACSR conductor	Km.				
32	LT Service cable (off sizes)	Mtr.				
33	Nuts and Bolts (off sizes)	Kg.				
34	MS Flat. 40x6 mm (Density 1.88 Kg./mtr.)	Kg.				
35	MS Flat. 50x6 mm (Density 2.36 Kg./mtr.)	Kg.				
36	MS Angle 50x50x6 mm (Density 4.50 Kg./mtr.)	Kg.				
37	MS Channel 100x50 mm (Density 9.56 Kg./mtr.)	Kg.				
38	MS Channel 75x40 mm (Density 7.14 Kg./mtr.)	Kg.				
39	P.G Clamp (Off sizes)	No.				
40	Aluminium Thimbles	No.				
41	Danger Plate	No.				
			Grand Total			

Note : Additional erection charges for item Sr. No. 32 to 41 shall not be paid extra since the erection charges of these items have been included in the main items.

**ANNEXURE-III
PART-C**

TENTATIVE DETAIL OF LABOUR FOR DISMANTLEMENT

Name of the Division : _____

Scheme Code: _____

Sr. No.	Description of Material	Units	Dismantle ment Required	Dismantle ment Rates (Rs)	Dismantlement Rates including premium (Rs)	Total Cost of Dismantlement (Rs) (col-4x6)	Remarks
1	2	3	4	5	6	7	8
1	Neutral wire of ACSR 13/20 mm ² size	Km					
2	3.5 core LT cable (off sizes), if provided on LT crossings	Mts	As per site				As per actual qty.to be dismentled
3	LT Shackles/Guy(Egg) Insulator for each phase/neutral	No					
4	D-Straps	No					Incl. in Sr. No.3
5	25 KVA Distribution Transformer	No					
6	50/63 KVA Distribution Transformer	No					
7	100 KVA Distribution Transformer	No					
8	200 KVA Distribution Transformer	No					
9	LT Stay Set	No.					
			Grand Total				

Additional Instructions :

For execution of smooth & speedy HVDS works, following instructions were imparted after the issue of work orders: -

1. It was decided that since now GO switch is being installed on each & every DT to be installed for every pump set, there is no use to retain the nodal point H-Pole structures. However, this H-Pole structure shall be used to feed an agricultural consumer by installing a dedicated transformer of appropriate capacity, wherever possible.
2. It was decided that wherever 25,63 & 100 KVA transformers are existing to feed only one or more agricultural consumer, no change is to be made in the structure except for replacement of DT with required capacity dedicated transformer to feed one consumer close to the DT. If no consumer is close to DT, case shall be referred to EIC/RE for decision.
3. It was decided that under this project, only conversion of LT lines to HT configuration is to be done and the DT is to be installed on the existing 8 metre single pole irrespective of the length of service cable existing at site.
4. It was made clear in the meeting that no re-engineering work is to be done as the scope of work allotted to the contractors is only limited to conversion from LVDS to HVDS. However, if at any location need to make some alteration in the existing system is felt during field surveys like avoiding of crossings of lines etc., a specific reference be made in the survey sheets/maps for which specific approval shall be taken from Member/D to allow such a change.
5. If during actual survey, any pole of any type is detected for replacement before conversion to HVDS, a specific reference will be made by routing the case through their Dy.CE/SE DS to RE Organisation for approval to be taken from Member/D. It was made clear that the contractors shall execute the work strictly as per approved sketches given to them by concerned ASE/Sr.XENS/APDRP. All the ASEs/Sr.Xens/DS and Dy.CE/SEs/DS were instructed to supply updated ledgers of AP connections by keeping in view the enhancement of load availed by AP consumers under VDS in the past. This information was requested to be supplied within a week's time to enable contractors to procure the DTs of correct capacity.
6. Wherever the consumer has not availed the facility under VDS but have installed a high capacity motor, extension in load to such consumers can be allowed by respective Dy.CEs/SEs/DS under ESR 21.4, the photocopies of which were circulated to all the officers present in the meeting. It was, therefore, stressed that in order to avoid damage to DT, consumers be asked to get their load enhanced as per the capacity of motor actually installed at site.
7. All the Sr.Xens/SE's/DS were requested to prioritize the survey of feeders which are to be converted to HVDS so that over loaded feeders are converted in first order of priority.

8. It was decided that on the survey sheets/maps, a specific reference will be made against the details of that very tube well which has been selected for sample study. It has been decided that the general load being fed at site is now to be given from the nearest DT to be installed. As such the load of the general consumer shall be marked on the maps and the proposal to feed such connections will also be shown on the sketches.
9. All the ASEs/Sr.XENs/DS were requested to appoint a Nodal Officer in the Divn. So that the work of co-ordination may not suffer.
10. All the officers were apprised of the biggest benefit of HVDS i.e., identification of illegal connections during field survey. All the ASEs/Sr.XENs DS and Dy.CEs/SEs/DS were directed to ensure that such illegal connections are removed and action against the delinquents be taken as per instructions in vogue.
11. All the contractors were directed to ensure that tach welding is done to the structure fittings to avoid any pilferage.
12. All the contractors were directed to ensure that the identification mark is painted on each & every pole on which dedicated DT is installed after HVDS.
13. As requested by DS organization, all the ASEs/Sr.Xens/APDRP were directed to keep a close liaison with them for proper co-ordination.

FEE SCHEDULE OF CHIEF ELECTRICAL INSPECTOR FOR HVDS RELATED EQUIPMENTS

As per Government of Punjab Department of Irrigation & Power (Energy Branch) order no. 11/11/&1-IPE (I) testing and inspection fee for installations installed in a generating or receiving station or in any other place in which energy is generated, transferred, distributed or used at a pressure not less than 100 volt shall be as under: -

For Installation upto 33 KV

Upto 100 KVA rating Distribution Transformer Rs. One hundred.

For installation of Lines upto 33 KV

For a Line length upto one Km. Rs. One Hundred.

The above fees are likely to be revised by the State Government without any notice.