



# Paschimanchal Vidhyut Vitran Nigam Ltd.

**System Augmentation/Strengthening works in Different District मद के कार्य**

**E-Tender No 60/2023-24**

कार्य का विवरण : विद्युत वितरण खण्ड – ग्रेटर नोएडा के क्षेत्र में एच.वी.डी.एस. ग्रामों में कुल 350 नं० अतिरिक्त 10केवीए की परिवर्तक की स्थापना एवं इससे सम्बन्धित कार्य।

*Office of The  
Superintending Engineer  
Electricity Urban Distribution Circle –II,  
33/11 KV S/S, Sector 18(Ansal) Noida(U.P)*

Last Date of Bid Submission – **30.09.2023 at 11:00 A.M.**  
Tender 1<sup>st</sup> Part Opening Date – **30.09.2023 at 02:00 P.M.**  
Estimated Cost of Tender - **Rs. 105.00 Lakh Approx.**  
Second Part Opening Date: will be notified later through e-tendering website.

**NOTICE INVITING TENDER**  
**(E-TENDER No. 60/2023-24)**

**General :**

Office of the Superintending Engineer, EUDC-II, Noida Invites **open e-Tender (Online Two Bid System Technical & Financial bid)** form eligible applicants, who fulfill the qualification criteria as stipulated in NIT/Tender form for the work, " विद्युत वितरण खण्ड – ग्रेटर नोएडा के क्षेत्र में एच.वी.डी.एस. ग्रामों में कुल 350 नं० अतिरिक्त 10केवीए की परिवर्तक की स्थापना एवं इससे सम्बन्धित कार्य। "

**Please note carefully the requirements for submitting/uploading tenders**

1. MINIMUM ELIGIBLE CRITERIA: As per uploaded Pre-Qualifying Conditions (Attached)..
2. The tenderers may obtain further information / clarification, if any, In respect of these tender documents from the office of Superintending Engineer, EUDC-II, Sector – 18, Noida.
3. The Intending bidders must be registered on e-tendering portal [www.etender.up.nic.in](http://www.etender.up.nic.in). Those who are not registered on the e-tendering portal shall be required to get registered beforehand. If needed they can be imparted training on online tendering process'. After registration the tenderer will get user id and password. On login tenderer can participate in tendering process and can witness various activities of the process.
4. The authorized signatory of intending bidder, as per Power of Attorney (POA), must have valid class-III digital signature. The tender document can only be downloaded or uploaded using Class-III digital signature of the authorized signatory.
5. E-tenders are invited in two parts (Part-I Techno Commercial Bid and Part II Price Bid) for the above work. Bid document (Tender Specification) is available online on <https://etender.up.nic.in> as per particulars indicated below. Any changes in the Bid Schedule, corrigendum etc. shall also be notified via same website. Prospective bidders are therefore requested to regularly check the website for any updates.
6. Tenderer is cautioned that the tender containing any material deviation from the tender document which consists of NIT, Instructions to tenderers, General conditions of contract, Special conditions of contract, Bill of quantities is liable to be summarily rejected as non-responsive.
7. Unless explicitly stated otherwise in the Tender Document, the contractor shall be responsible for the whole works, based on the Bill of Quantities and payment shall be as per accepted rates based on the activities carried out as in the Schedule of work.
8. The rate quoted by the tenderer shall be inclusive of all duties, taxes (inclusive of GST), fees, octroi and other levies, materials, labour to & FOR transportation of material, Work NOC for all department (Authority, PWD, Irrigation, Horticulture etc.), and labour charges etc.
9. जनपद गौतमबुद्ध नगर में System Augmentation/Strengthening works in Different District मद में प्रस्तावित डीपीआर में वर्णित कार्यों को ससमय पूर्ण कराये जाने के उद्देश्य से निदेशक मण्डल से डीपीआर की स्वीकृति की प्रत्याशा में सेमी टर्नकी आधार पर निविदाएं विभिन्न शर्तों/प्रतिबन्धों के अधीन आमंत्रित की जा रही हैं। निदेशक मण्डल से वांछित स्वीकृति प्राप्त होने के पश्चात् अनुबन्ध एवं भुगतान से सम्बन्धी अग्रिम कार्यवाही की जायेगी। अन्यथा कि स्थिति में निविदाओं को बिना कोई कारण बताये किसी भी समय निरस्त करने का पूर्ण अधिकार अधीक्षण अभियन्ता, विद्युत नगरीय वितरण मण्डल – द्वितीय, नोएडा के पास सुरक्षित है जिसके सापेक्ष कोई भी प्रत्यावेदन स्वीकार नहीं होगा।
10. **Superintending Engineer, EUDC-II, Sector -18 Noida reserves the right to accept or reject any or all proposals without assigning any reasons. No tenderer shall have any cause of action or claim against the PVVNL/ Superintending Engineer, EUDC-II, Noida for rejection of his/her proposal.**
11. Tenderers are advised to visit the site before offering their rates.
12. The bidders are advised to keep in touch with e-tendering portal [www.etender.up.nic.in](http://www.etender.up.nic.in) for updates. Any corrigendum, addendum etc issued shall be part of this tender document and shall be made available on this e-tendering portal.
13. **The EMD amounting Rs. 105000.00 and Tender Fees Rs. 5900.00 (Rs. 5000.00 T.Fees + 900.00 GST) shall be submitted online through NEFT/RTGS receipts to be uploaded on the E-tendering portal. The bidders are required to deposit EMD online through NEFT/RTGS in Bank Superintending Engineer of EUDC-II, Sector 18, Noida Account Number 4613002100005956 IFSC code PUNB0370200 in the name of Superintending Engineer of EUDC-II, Sector 18, Noida –PVVNL in bank Punjab National Bank, Sector 18, Noida. Unique Transaction Reference (UTR) number or copy of original pay in slip of the bank, issuing bank shall be uploaded e-Procurement portal of GoUP.**

**Superintending Engineer**  
**EUDC-II, Sector - 18 Noida**

M/s.....

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To,

**The Superintending Engineer,**

Electricity Urban Distribution Circle-II

33/11 KV S/S Sector 18(Ansal)

PVVNL, Noida.

Dear Sir,

With reference to your tender for the above work, I/We offer to submit our proposal having rates for site, erection at site in the schedule annexed or such portion thereof, as you may determine in strict accordance with the terms, conditions and instructions to the tenderer and conditions of the tender and sale contained in Part-1 of the above referred tender to the satisfaction of the seller or in default thereof to forfeit to and pay to (Name of Discom), the sum of money mentioned in the said conditions.

**THE RATES QUOTED ARE NET AND FIRM AND IN FULL SATISFACTION OF ALL CLAIMS. I/WE AGREE TO ABIDE BY THIS TENDER FOR THE PERIOD OF 180 DAYS FROM THE DATE OF OPENING OF BID PART-1. FIRM IS AGREED THAT OUR EMD NOT REFUND BEFORE 180 DAYS FROM THE DATE OF OPENING TENDER.**

A sum of Rs. .... vide no. .... dated ..... of ..... bank, in the form of DD/Bankers Cheque or RTGS/NEFT having UTR no. ....vide ..... (Name of Bank) as tender cost has been deposited in the Discom account. The proof of the same has been annexed with the bid proposal.. A sum of Rs. .... vide no. .... dated ..... of ..... bank, in the form of .....And having the validity for the period of ..... as earnest money pledged in favour of .....is enclosed, the full value of which shall be retained by the (Name of Discom) on account of earnest money security deposit specified in the said clause of the "Instructions to the Tenderers".

I/we hereby undertake and agree to execute a contract in accordance with the said 'Terms, Conditions & Instruction to the Tenderer of the tender bid specification.

Firm RTGS Details:-

The details of the funds (earnest money/Tender Fees) given by the firm in the present tender, are deposited in the departmental account, as mentioned herein under:-

Firm current account number-

Name of Bank with address:-

IFSC code of the branch-

Amount:- Rs. .... & head (EMD/Tender Cost)

UTR no.-

Yours faithfully,

Signature of the authorised Signatory  
(With complete address & Seal)

**Part-1**  
**DECLARATION**

(To be executed on a Rs. 10/- non-judicial stamp paper)

Tender Invited by:- Superintending Engineer, EUDC-II, Sector 18, Noida.

Tender for:- **FOR E- TENDER NO. 60/2023-24**

From:-

Name of Tenderer:-

Specification no.:- **E-Tender: 60/2023-24/EUDC-II,Noida.**

Date of opening of bid part-1:-

IN CONSIDERATION of the EUDC-II,Noida, having treated the tenderer to be an eligible bidder whose tender may be considered, the tenderer hereby agrees to the condition that the proposal in response to the above invitation shall not be withdrawn by us within **180 days** from the date of opening of the tender (or any extension thereof), also to the condition that if thereafter the tenderer does withdraw his proposal within the said period, the earnest money deposited by them may be forfeited by the Superintending Engineer, EUDC-II,PVVNL, Sector 18, Noida Discom, and at the discretion of the purchaser. The purchaser may debar the tenderer from tendering for a minimum period of one year reckoned from the date of opening of the tender.

Signed this ..... day of .....20

Place:

Signed by

State title whether Proprietor/Partner  
(With complete address & Seal)

**PASCHIMANCHAL VIDYUT VITRAN NIGAM LTD.**  
**Electricity Urban Distribution Circle-II, Sector-18, Noida**

**PART-I (A)**

**E-Tender Specn.. No 60/EUDC-II/2023-24/Noida**

Dear Sir,

With reference to your invitation of tenders against above specifications, I/we hereby offer to the Paschimanchal Vidyut Vitran Nigam Ltd to supply the items/ execute the work mentioned in tender specifications in strict accordance with the annexed conditions of contract from “A/B”, commercial/ technical specifications (Bid Part-I) and schedule of rates (Bid Part-II) to the satisfaction of the purchaser. The detail particulars are as below :-

1. Name of Tenderer :

**2. Address Office/Shop/Workshop**

(a) Phone No.

(b) Fax

(c) Email address

(d) Residence (With Tel No.)

3. Income Tax PAN No.

4. GST No.

5. Period of earlier experience for such type of job.

(Attach photo copies of supporting documents).

6. Performance Certificates

(Attach photo copies of supporting documents).

7. Validity of Proposal Rates

8. Whether prices are applicable for reduced quantity : Yes / No / N.A.

**(Signature of Tenderer & Seal)**

**E-Tender Specification No. – 60/2023-24/EUDC-II/NOIDA**  
**System Augmentation/Strengthening works in Different District मद के कार्य**

कार्य का विवरण : विद्युत वितरण खण्ड – ग्रेटर नोएडा के क्षेत्र में एच.वी.डी.एस. ग्रामों में कुल 350 नं० अतिरिक्त 10केवीए की परिवर्तक की स्थापना एवं इससे सम्बन्धित कार्य।

नोट –

1. संदर्भित निविदा के अन्तर्गत प्रस्तावित कार्य सेमी-टर्नकी आधार पर कराया जायेगा।
2. संदर्भित निविदा के अन्तर्गत आवश्यकतानुसार पावर परिवर्तक, वितरण परिवर्तक, 33 केवी एवं 11 केवी वीसीबी, कन्ट्रोल पैनल, 33 केवी सीटी/पीटी, एसीएसआर कण्डक्टर (डॉग/वीजल/रैबिट), विभिन्न साईज की एल0टी0 ए.बी. केबिल, 33 केवी व 11 केवी एक्स.एल.पी.ई. केबिल, एल0टी0 एक्स.एल.पी.ई. केबिल, एस0टी0 पोल, पीसीसी पोल, 33 एवं 11 केवी पिन इन्सूलेटर तथा 33 केवी/11 केवी डिस्क इन्सूलेटर मय फिटिंग डिस्कॉम स्टोर से उपलब्ध कराया जायेगा।
3. प्राक्कलनानुसार निविदा के कार्य हेतु क्रमांक 2 पर वर्णित सामग्री के अतिरिक्त अन्य सभी सामग्री निविदादाता द्वारा स्वयं उपलब्ध कराई जायेगी जिससे कार्य ससमय पूर्ण किया जा सकें।
4. निविदादाता द्वारा कार्य को रेस्पो द्वारा निर्धारित विशिष्टीकरण, मानको के अनुरूप ही कराया जायेगा।
5. निविदादाता द्वारा पश्चिमांचल के अनुमोदित वेन्डर से, अनुमोदित जी0टी0पी0 के अनुसार ही सामग्री क्रय की जायेंगी। जिसका निविदादाता द्वारा अधीक्षण अभियन्ता के माध्यम से विभागीय नियमानुसार निरीक्षण/परीक्षण कराया जाना आवश्यक होगा।
6. निविदा के कार्य एलओआई/अनुबन्ध की तिथि से आगामी 3 माह की अवधि में पूर्ण कराया जायेगा।
7. कार्य मात्रा पूर्णतः अनुमानित है, प्राक्कलन/कार्यस्थल की बाध्यता के आधार पर अतिरिक्त कार्य भी जोड़े/घटाये जा सकते हैं। किसी भी कार्य में शून्य से अधिकतम सीमा तक (निविदा धनराशि की सीमा के अन्दर) परिवर्तन किया जा सकता है।
8. कार्य सम्बन्धित खण्ड के स्वीकृत प्राक्कलन के अनुसार किया जायेगा।

**Responsibilities of Contractor:-**

1. The contractor is required to make them fully conversant with the job required and the work shall be executed as per general conditions of the tender specification contract.
2. The contractor shall be supplying, erecting, testing & commissioning of all materials and equipments not mentioned specifically in the scope of works but required to complete the job in all respect, except excluded specifically for which no extra payment shall be made.
3. The Contractor shall have to arrange all carriage facility including transportation cartages, man power, T&P etc.
4. Any type of NOC (Forest Deptt., Noida/Gr.Noida/Yamuna Authority any other Govt./PSU/Private areas etc.) for the completion of following work will be arranged by the bidder itself only, Department will not be liable for these NOC.
5. Tenderes are advised to visit the sites/Areas of divisions before offering their rates.
6. Illumination/Lighting of working site shall be in the scope of contractor. Nothing shall be paid by the PVVNL.
7. JV's firms are not allowed for the tender.
8. Safety of Man & Material shall be ensured by contractor.
9. The contractor shall ensure that the work is carried out as per NGT Norms/Standard and in such a manner that all premises always look Neat & clean, Similarly, the waste disposal is also carried out in totally sealed manner without affecting the Environment.
10. Contractor shall have to deposit a security Amount @ 10% of the value of Awarded Contract in the form of FDR/PBG pledged in favor of SE EUDC-2 NOIDA at the time of agreement/before the agreement vailidity of Secruity amount shall be 01 Year. Security Money shall be returned/refunded after work completion and NOC issued by the concerned division.

**Taxes:-**

**GST Inclusive in all quoted rates.**

### **Others Terms & Conditions:-**

1. The work will be done under the Supervision of S.D.O./E.E. of concerned division.
2. The charges for Road cutting, Forest Clearances charges, land lease charges or from any other agency which are required to complete the work shall be paid by the contractor, except other than items mentioned in BOQ.
3. Shifting/Loading/Unloading of New/Old material from store to site and back by using the crane and truck of requisite capacity will be done by the contractor on its own cost.
4. The Contractor shall have to arrange all carriage facility including transportation cartages, man power T&P etc on its own cost except other than carriage mentioned in BOQ.
5. The Contractor shall make adequate Arrangement for proper Handling of Material to avoid any Damage/ Loss/Accident etc of any kind and Damaged and Removed material and Spares parts will be retained by department.
6. No T&P will be provided by the department. The Contractor shall arrange all the T&Ps. Equipments. Welding set, generator set etc. required for carrying out the above work at his own cost.
7. The contractor shall be fully responsible for any loss/thefts/damaged/accidents the material of the departments and accordingly, he shall have to keep adequate watch and ward to avoid any loss/thefts/damages/accidents etc. to the material of the PVVNL.
8. Work may prolong due to bad weather condition or power Block constraint. Contractor has to negotiate with the prevailing conditions, nothing will be paid extra.
9. Any loss or damage to any of the public utilities shall be replaced/repared by the contractor at his own cost.
10. Managing of site by guard shall be in the scope of contractor
11. The contractor will purchase the material as per PVVNL approved GTP/technical specification. The Final GTP of the material will be as per PVVNL.
12. Material purchased by the Contractor/Agency/firm shall be inspected by the competent committee of PVVNL before supply of material for which an inspection shall will be made by the contractor to competent committee authority P.V.V.N.L. through S.E., E.U.D.C-II, Noida
13. All those petty materials not appearing in the prices schedule but are required to complete the work as per Bill of Quantity / Price Schedule, shall have to be arranged by the contractor at his own cost. Similarly any work activity not specifically indicated but is required for systematic execution of job as per Bill of Quantity / Price Schedule, shall also be done by the contractor for which no separate payments shall be made. Any other misc. work required for proper completion of work shall be done by the contractor.
14. All the spare parts required to be replaced/repared/provided by the contractor under 12 month warranty period and the entire repairing/overhauling shall be borne by the contractor. The contractor shall deposit a security Amount @ 10% of the value of Contract in the form of FDR/PBG pledged in favor of EE OF CONCERNED DIVISION/AREA and shall be returned/refunded after 12 months warranty period.
15. For repairing and overhauling of all the spare parts required to be replaced/repared will be provided by the contractor and the entire repairing/overhauling work shall be carried out the site.
16. The work will have to be carried out strictly as per Indian Electricity Rules & RESPO specification and guidelines and relevant drawings, subject to modification as per site conditions.
17. Videography or Photography of site shall be done by the contractor before start of work and after its completion, cost of which will be borne by the contractor.
18. General Conditions of Contract Form 'A' & Form 'B' and Standard Contract Conditions of UPSEB/ UPPCL/PVVNL/SE EUDC- 2 Noida shall be integral part of tender specification.
19. During the period of work in progress, the Contractor shall have to provide lighting arrangement sign board etc or necessary precautionary arrangement so that accident/ damages/ losses to the public/ manpower of the contractor/ department etc. are avoided.
20. The contractor shall have to execute the work within the stipulated time period as provided in the order issued by the competent authority.
21. If the Contractor Fails to execute the work within the stipulated period, the order placing authority reserve the right to get the work done departmentally or through any other agency. The Excess expenditure, if any, incurred in this connection plus 15% supervision charges shall be debited from the Contractor and it will be recovered from the Security Amount/Running/Pending Bills or through any other credit pending with UPPCL/PVVNL of the Contractor.
22. A Penalty @0.5% per day for Delay/Late in Execution of work shall be payable by the contractor on the total value of contract. The maximum penalty leviable shall not, however, exceed 10% of the value of the work not executed.

23. Depending upon the site conditions, the individual quantity of any item /work may vary up to  $\pm 20\%$  but total value of the work shall not  $\pm 10\%$  exceed beyond the Agreement Value.
24. The Proper Shut down will be taken as required by the Contractor time to time as per site/system Requirement and Availability by the SDO/JE of the Concern Area.
25. Work will be done by the labour of contractor using safety equipments which provided by the contractor at his own cost.
26. Proper skilled staff included Supervisor capable for execution of the above work shall have to be arranged by the contractor. The safety of labour while at work shall be the responsibility of the contractor and any compensation to be paid to them on any account, whatsoever, shall also be responsibility of the contractor UPPCL/ PVVNL shall not be liable for any such compensation etc.
27. The Consignee of the material will be Executive Engineer of concerned division.
28. Process for Payment of work and material shall be done by the Concerned Executive Engineer of the Division where work was done as per departmental norms after the complete execution of work/entire project & submission of executed estimate and after getting satisfactory report and measurement in all respect by concern J.E. and S.D.O. Payment will be made by the PVVNL HQ after availability of funds.
29. Income Tax, TDS, GST-TDS, Labour Cess and all other taxes shall be deducted from the bills of the Contractor as per rules prevailing of Central Govt. at the time of payment.
30. Fund Head for ERP : System Strengthening work in UP (District) : BP\_SASW\_DI
31. Fund Head for ERP : System Strengthening work in Municipal Area (Noida) : BP\_SSW\_MUN
32. The Tender Work will be bifurcated/allotted within Two firms / more than two firms on L-1 quoted rates as required for timely completion the works by the SE EUDC -2, Noida at the time of agreement.
33. Time of Completion: 90 Days from the date of Agreement/LOI.
34. The Agreement can be terminated by the Engineer of the Contract at any time without any prior notice in the event of un-satisfactory performance of the Contractor. This is however, without prejudice to the other Terms & Conditions of the Agreement.
35. If the Contractor fails to execute the work in the stipulated period then the departmental action may be taken (Blacklist, Debarred etc.) against them by the Engineer of Contract. The contractor shall have any cause of action or claim against the Engineer of Contract.
36. Notwithstanding the agreement executed with the Contractor, the Engineer of the contract always reserves the right to get the work done by department or through any other agency. The Contractor shall have no objection and claims over such work.
37. All Terms & Conditions shall be applicable mentioned in said work Linkage/Financial and Administrative Approval issued by the PVVNL Discom Meerut.
38. After approval/Sanctioned of estimate of the work mentioned in Tender, The Estimated Value of Tender shall be vary (+/-) 10%.
39. For any dispute arising out of the Contract, Chief Engineer, Noida Zone, Noida. Shall final Authority to Decide the Dispute and his Decision shall be binding on both the Parties.

**SUPERINTENDING ENGINEER  
EUDC-2 NOIDA**



**Pre-qualifying Conditions and Check List for Documents to be upload in  
Part-Ist (Prequalifying Condition)**

**The bidders have to fulfil following minimum conditions of experience and financial competence in order to  
qualify for consideration this tender:**

फर्म/ ठेकेदार को निविदा के भाग-प्रथम में निम्नलिखित प्रपत्र साफ/पठनीय Upload करने  
आवश्यक होंगे अन्यथा उसका भाग-द्वितीय नहीं खोला जायेगा।

**E-Tender No : S.T.E. No- 60/2023-24**

Sl.	Description	Yes/No	Uploaded on page No.
1	Required Tender Cost deposited in desired Bank Account and its UTR Detail Uploaded.		
2	Earnest Money in desired Bank Account and its UTR Detail Uploaded.		
3	Copy of GST registration certificate (Provisional Certificate shall not be accepted).		
4	Copy of PAN card and Aadhar Card must be uploaded.		
5	Copy of (AY-2023-24)/latest Income Tax Return /Clearance Certificate.		
6	Under taking on Rs. 10.00 non judicial stamp paper with notary & date for Not black listed/debarred from business in any Govt./Semi Govt./PSU/local Bodies etc. They have to submit/uploaded an undertaking regarding this along with the bid.		
7	The bidder should have a valid Class 'A' Electrical License Holder, issued by Electricity Safety Directorate of UP and valid upto date of opening of Bid (Part-I). License must be uploaded.		
8	Declaration on Rs. 10.00 non-judicial stamp paper with date about proposal in response to the above invitation shall not be withdrawn within 180 days from the date of opening must be uploaded.		
9	<p><b><u>FINANCIAL REQUIREMENT :</u></b></p> <p>A. The Minimum Average Annual Turnover (MAAT) of the bidder in the best three financial years (FYs) out of last five FYs should be</p> <p>(i) For Procurement/works cases with cost estimate and completion period more than 12 months,</p> <p style="text-align: center;"><math>MAAT = EC \times 12 / CP</math></p> <p>(ii) For Procurement/works cases with cost estimate and completion period upto 12 months,</p> <p style="text-align: center;"><math>MAAT = EC</math></p> <p>Where, MAAT – Minimum Average Annual Turnover EC = Estimated Cost CP = Job/Supply Completion in Months.</p> <p>Note: During Evaluation of bids the Annual Turnover of the bidder shall be considered exclusive of GST even though the estimated cost is inclusive of all taxes.</p> <p>The audited balance sheet/CA's certificate with UDIN Number must be uploaded in support of above failing which the bid shall not be considered.</p>		
10	Net worth of the bidder should be positive. Net worth means the sum total of the paid up capital and free reserves (excluding reserves created out of revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets with UDIN Number shall be enclosed in support of above failing which the bid shall not be considered. Certificate of Net Worth must be uploaded.		
11	The bidder should have a minimum solvency of Rs. 26.25 Lakh (25% of estimated cost) or credit facility for the same from Nationalized/scheduled bank. Latest/New Certificate of Solvency must be uploaded.		
12	The bidder shall have to valid character certificate issued from the District Magistrate /SSP along with the techno commercial part of the bid document issued. (valid upto date of opening of Bid, Applied Certificate shall not be acceptable in any mean) Certificate of Character must be uploaded.		
13	The bidder should have successfully completed the turnkey/semi-turnkey work of the following nature in the last three financial year as prime contractor from the date of opening of bid part-1 in Government / Semi Govt./ PSU Unit. Agreement with Satisfactory Work Completion / Experience Certificate is to be compulsory to upload which was issued		

	by the Tender Inviting Authority/Work executed Authority.		
	<ol style="list-style-type: none"> <li>1. Bidder Should have successfully erected and commissioned similar or higher rating work in a single turnkey/semi turnkey order, having minimum order value of 80% (Rs. 84.00 Lakh) of the estimated cost of the present tender specification,</li> <li>or</li> <li>2. Should have successfully erected and commissioned similar or higher rating work in maximum two turnkey/semi turnkey order, having minimum order value of 50% (Rs. 52.50 Lakh) each of the estimated cost of the present tender specification,</li> <li>or</li> <li>3. Should have successfully erected and commissioned similar or higher rating work in maximum three turnkey/semi turnkey order, having minimum order value of 40% (Rs. 42.00 Lakh) each of the estimated cost of the present tender specification.</li> </ol>		

नोट:- ई-निविदा से सम्बन्धित समस्त प्रपत्र/अभिलेख प्रथम भाग के साथ ई-टेंडर पोर्टल के माध्यम से ऑन लाईन ही प्राप्त किये जाएंगे, अपलोड किये गये प्रपत्र साफ एवं पठनीय योग्य होने चाहिए अन्यथा प्रपत्र को निरस्त कर दिया जायेगा। कोई भी प्रपत्र/अभिलेख मण्डल कार्यालय में अलग से स्वीकार्य नहीं होगा तथा अधोहस्ताक्षरकर्ता द्वारा ई-निविदा में अपलोड किये गये अभिलेखों को आवश्यकतानुसार मूल अभिलेखों से सत्यापन किया जायेगा। अभिलेखों में भिन्नता/ निविदा के प्रथम भाग में अपलोड नहीं कराने पर निविदा आमंत्रित करने वाले अधिकारी को निविदादाता की निविदा को बिना किसी कारण बताये निरस्त करने का पूर्ण अधिकार होगा।

**Tenderer Signature  
with Seal**

## **Single Phase L.T. Distribution Box for for Aerial Bunched Conductor**

### **SCOPE:**

The LT Distribution box for ABC single phase is used for Connection through overhead conductors or ABC line and for giving connections to the consumers. This specification covers the design, manufacture, inspection, testing and supply of the LT Distribution box. The LT Distribution box suited for ABC single phase cable/conductor will be installed at the Poles and it shall withstand solar radiations, rain, wind pressure and pollution.

### **CONSTRUCTIONAL AND TECHNICAL PARTICULARS:**

1. The Distribution Box shall be made from 20 SWG CRCA MS sheet **with Powder Coating**. Internal size of the box shall be 225mm x 285mm x 120mm as shown in drawing. There shall not be any welding joint to make base and cover of the Distribution Box. Roof of the box shall be tapered on both sides to drain the rain water. Distribution Box shall have insulated Multiple Outgoing Connector for Phase and Neutral.
2. Each Multiple Outgoing Connector shall have arrangement for one incoming cable of Single phase of size up to 25mm<sup>2</sup> and 8 outgoing cables of singlephase of size up to 2core 10mm<sup>2</sup>. Each Incoming & outgoing cable shall be fixed inside the Multiple Outgoing Connector by two screws of size not less than M6. The Multiple Outgoing connector shall be such that the outgoing cables can be fixed or removed easily without disconnecting the power supply. No current carrying part shall be approachable by hand or finger. Any current carrying part should be at a minimum distance of 5mm from the outer edge of the insulation. Insulation shall be Fire retardant. Multiple Outgoing Connectors shall be mounted horizontally.
3. Mounting arrangement shall be such that minimum clearance of 40mm is maintained between phase and neutral. Fixing of Multiple Outgoing Connectors preferably shall be non-removable type to avoid theft of connectors. Box shall be provided with U-latch sealing arrangement. A hole of 8mm & 2.5mm shall be provided in the U-latch to provide a padlock & sealing of the box respectively. U-latch shall be joined with stainless steel rivet. Box should be duly powder coated after 7-tank Phosphating process.
4. Box should be of Light Admiralty Grey color (IS-5:1993, COLOUR NO-697). The LT Distribution box for ABC single phase shall be powder coated only. The facility for 7-Tank Phosphating and powder coating shall be in-house of the tenderer / manufacturer to ensure proper quality, since these boxes are for outdoor applications. One Hole for incoming cable and 8 Nos. holes for outgoing cables shall be provided on the lower wall of the box. Cable holes shall be provided with rubber / plastics glands duly pasted with the box. Incoming and outgoing cable gland shall have internal diameter of 30mm & 15mm respectively. Cable Glands shall be made such that internal diameter of glands provided for cables should be closed with the film of minimum 1mm thickness. Cable will go through the cable glands by piercing the film of the glands. Gap of minimum 100mm shall be maintained between the lower wall and neutral mounted inside the Distribution Box for easy handling of incoming and outgoing cables.

**MARKING:** Following shall be provided on the cover of box.

- ✓ PROPERTY OF PNVNL
  - ✓ Danger marking in red color.
- 
- M.S. Earthing screw of diameter 6mm with washer shall be provided in the threads of the earth clamp welded to the main body of the box.
  - The box shall comply with the requirement of IP54. The box shall be fully type tested along with dimensional drawings as per the requirement of relevant Indian Standard (latest edition) IS13947: Part-I and latest amendments. Tests shall be carried out from laboratories which are accredited by the National Board of Testing & Calibration Laboratories (NABL) of Govt. of India to prove that the complete box meet the requirement of IP54.
  - Box shall be duly packed in 3Ply corrugated box. The tolerance permissible on the

- overall dimensions shall be ( $\pm$ ) 3%.

**Visual Examination: -**

The LT Distribution box for ABC single phase will be inspected visually, externally and internally for proper Powder Coating layer, fitting of all the components in accordance with technical Specification.

**Verification of dimensions: -**

Verification of dimensions, external / internal clearances will be carried out as per technical specifications.

**Verification of fittings: -**

Components like insulated Multiple Outgoing Connectors, screws etc will be verified as per technical specification.

**High voltage withstand test at 2.5KV: -**

The A.C. voltage of 2.5KV, 50HZ shall be applied for one minute as follows:

Between Phase & Neutral

Between Phase and earth screw

On the insulation of Multiple Outgoing Connectors. There shall not be any puncture or flash over during this test.

**Current Carrying Capacity: -**

The Current of 200 AMP shall be applied for 30 minutes through high current source on each Multiple Outgoing Connector. There shall not be overheating of the terminals during this test.