



NORTH BIHAR POWER DISTRIBUTION CO. LTD.

[Office of Chief Engineer, Project-I/Urban]
(Regd. Office: Vidyut Bhawan, Bailey Road, Patna)
CIN No: U40109BR2012SGC018920

Letter No: 1420

[File No:-N-XIII/RDSS/V.A./Motihari Circle-3136/2023-

Dated: 11-10-2023

E-mail: cerdssnbpdcl@gmail.com

From,

Shriram Singh
Chief Engineer, Project-I (Urban)

To,

M/s Vindhya Telelinks Limited
Club 125, 6th floor, Tower A, Plot No- 3, 4 & 5,
Sector 125, Noida, UP-201301
Email: ashish@vtlrewa.com/ s.shah@vtlrewa.com/ epc@vtlrewa.com

Sub:- Regarding approval of GTP & Drawing of 8 Mtr. 200 Kg PSC Pole & 9 Mtr. 300 Kg PSC Pole of make M/s Vinayak Precon Industries, Saraikela, Jharkhand for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme."

Ref:- (i) NOA No.-246 & 247 dated 06.03.2023
(ii) Your letter no.- VTL/NBPDCL/RDSS/Approval/Motihari/67 dated 09.10.2023

Sir,

With reference to the above, please find the copy of approved GTP & Drawing of following item for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme":-

| S.N. | Material Description | Vendor Name |
|------|------------------------|---|
| 1 | 8 Mtr. 200 Kg PSC Pole | M/s Vinayak Precon Industries, Vill-Khunti, P.O. + P.S.- Chowka Chandil, Dist.-Saraikela-Kharsawan, Jharkhand- 832404 |
| 2 | 9 Mtr. 300 Kg PSC Pole | |

Correction where required in GTP & Drawing submitted by you has been done. However, these GTP & Drawing shall be subject to correctness as per technical specifications of the tender document and the entire responsibility of correctness of the GTP & Drawing as per the specifications as well as supply of material according to the technical specifications of the contract agreement shall be that of the contractor.

In case of any conflict or contradiction between GTP & Drawing the decision of Chief Engineer, Project-I (Urban) shall be final and binding on both parties. Contractor shall have to replace the material to the entire satisfaction of the purchaser in case the material is found unsuitable for use in the project, at any stage.

Please carry out the works immediately under the conditions stated above.

Encl:- As above

Yours faithfully

(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.- 1420

Dated- 11-10-2023

Copy forwarded M/s Ashoka Buildcon Ltd., Nashik/ M/s Polycab India Ltd., Mumbai /M/s NCC Ltd., Hyderabad- 500081 for information and necessary action.

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.- 1420

Date- 11-10-2023

Copy forwarded to Chief Engineer, Project-II, NBPDCL for information and necessary action.

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)

GUARANTEED TECHNICAL PARTICULARS OF 8 MTRS LONG 200 Kgs, W/L PSC POLES

- 1. Name of Manufacturer : Vinayak Precon Industries
- 2. Manufacturing Unit : Vill- Khunti, Chowka, Chandil, Jharkhand.
- 3. Over All Length of Pole : 8 Mtrs.
- 4. Depth of Plantation : 1.5 Mtrs. (to be marked)
- 5. Minimum Ultimate Transverse Load : 500 Kgs
- 6. Weight of Pole in Kgs : 380 Kgs. Approx
- 7. Factor of Safety : 2.5
- 8. Working Load Applied at 600 MM From Top : 200 Kgs
- 9. Volume of Pole in Cube Meters : 0.157 Cubic Meter
- 10. Dimensions of the Poles
 - A. Top Dimension : 90 MM X 145 MM
 - B. Bottom Dimension : 90 MM X 290 MM
- 11. Actual Consumption/ Quality of materials used in Manufacture of each P.S.C Pole
 - A. Cement (OPC IS: 269-2015) : 80 Kgs. Appx.
 - B. Sand : 3.75 CFT
 - C. Stone Chips (IS: 383) : 5.35 CFT
 - D. H.T. Steel Wire.
 - 1. Dia of Wire : 4mm/12 Nos Full & 4mm/2 Nos. Half
 - 2. No. of Wire : 12 nos. Tensioned wires/2 no. Untensioned half wires
 - 3. Weight of Wire : 11.00 Kgs Approx
 - 4. Standard : IS: 6003/2010
 - E. Other M.S. Reinforcements
 - a. H.T. Wire Rings : 4 mm H.T. Wire of 12 Nos.
 - b. Weight of Steel : 0.5 Kgs.
 - c. 4 mm Rod Hooks : 2 Nos.
- 12. Earthing Arrangement in each PSC Poles:
 - a. Length of G.I. Wire & SWG : 7.5 Mtrs 8 SWG
 - b. Weight of G.I. Wire : 0.7 kgs.
- 13. Method of Pre- Stressing : By Tensioning of H.T. Wires through Hydraulic Tensioning Machine.
- 14. Concrete mix & cube strength
 - a. After 72 Hours : 210 Kgs/cum²
 - b. After 28 Days : 420 Kgs/cum²
- 15. Pole Marking :
 - 1. NBPDC (RDSS-LR)
 - 2. Sl. No.
 - 3. Name of Manufacturer.
 - 4. Month & Year of Manufacture.
 - 5. Top 3 feet of pole to be painted with IS-5/2007/541 in all four faces.



Checked
AEE(P-1) EEE(P-1) EEE(P-1)

APPROVED
Subject to the condition that you are not absolved to responsibility of correctness of materials
CE (Project-1), Urbar.
NBPDC

NOTES :-

1. ALL DIMENSIONS ARE IN MM
2. DRAWING NOT TO SCALE
3. FACTOR OF SAFETY - 2.5
4. CONCRETE GRADE - M-40
5. DIAMETER OF PRESTRESSING WIRE- 4 MM
6. ULTIMATE TENSILE STRENGTH OF PRESTRESSING WIRE - 17500 KG/CM2
7. NUMBER OF TENSIONED WIRES - 12
8. NUMBER OF UNTENSIONED WIRES - 2
9. CONCRETE QUANTITY PER POLE - 0.157 M3
10. STEEL QUANTITY PER POLE - 12.00 KG APPROX
11. WEIGHT OF POLE - 380 KG
12. CLEAR COVER TO WIRE - 20 MM

LOCATION OF HOLES AS PER REC STANDARDS

- - DENOTES TENTIONED WIRE
- X - DENOTES UNTENTIONED WIRE
- + - POSSIBLE POSITION OF EARTH WIRE

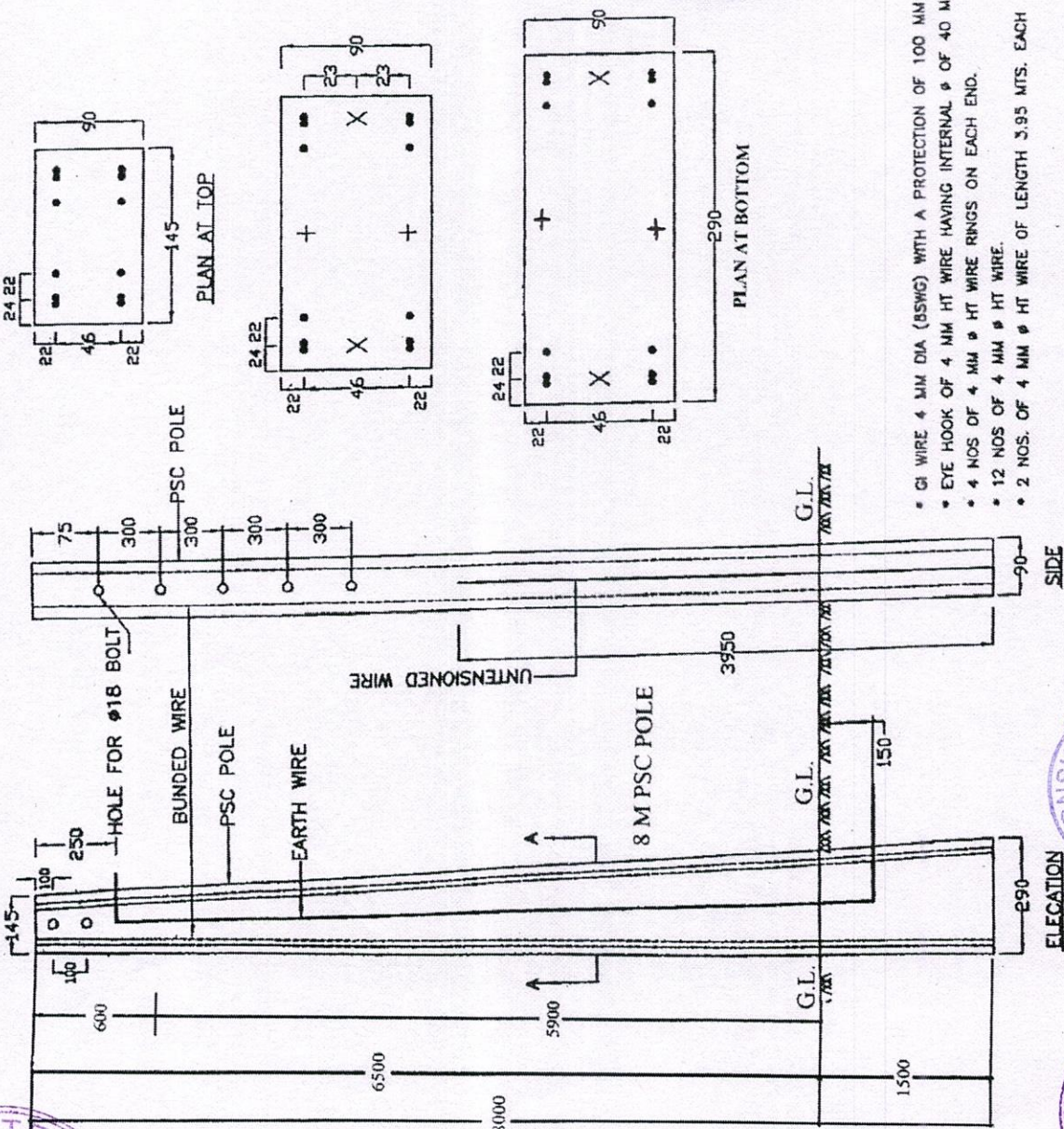
SAMPLING & APPROVED PER CLAUSE 17.1.1 OF IS

Subject to the condition that you are not absolved to the responsibility of correctness of materials

CE (Project-1), Urban NBPDC



| | |
|--|---|
| TITLE | PRESTRESSED CONCRETE POLE 8 MTR LONG 200 KG W/L |
| OWNER | NORTH BIHAR POWER DISTRIBUTION COMPANY LIMITED |
| CONTRACTOR | |
| LOA NO. | |
| PROJECT | |
| DESIGNED BY | |
| CHECKED BY | |
| NAME OF FIRM | M/S VINAYAK PRECON INDUSTRIES |
| NOTE :- ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED | |



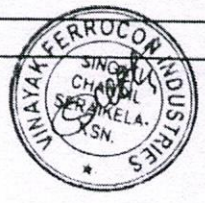
Checked
AEE(P-1)



GUARANTEED TECHNICAL PARTICULARS OF 9 MTR 300 KG PSC POLES

| Sl. No. | Description | Unit | Particulars |
|---------|------------------------------------|--------------------|---|
| 1 | Type of Pole | | Pre Stress Concrete |
| 2 | Factor of Safety | | 2.5 |
| 3 | Overall Length of Pole (Meter) | MTR | 9 |
| 4 | Working Load | KG | 300 |
| 5 | Point of Application of Load | | 600 mm below from top |
| 6 | Depth of Plantation | mm | 1500 |
| 7 | Overall Dimensions | | |
| i) | Bottom Depth | mm | 355 |
| ii) | Top Depth | mm | 185 |
| iii) | Breadth | mm | 100 |
| 8 | Reinforcement Details | | |
| i) | Diameter of Pre Stressing Wire | mm | 4 |
| ii) | No. of Tensioned Wires | Nos. | 20 |
| iii) | No. of Untensioned Wire | Nos. | 0 |
| iv) | Length of each pre stressing wire | Mtr. | 9 |
| v) | Ultimate Tensile Strength | Kg/cm ² | 17500 |
| vi) | Steel Quantity | Kg/pole | 22 |
| 9 | Concrete Detail | | |
| i) | Cement Type | | Ordinary Portland Cement- 43 Grade |
| ii) | Concrete Mix Strength | Kg/Cm ² | 210 kg/cm ² at time of transfer of prestress (min) |
| | | Kg/Cm ² | 420 kg/cm ² at age of 28 days (min) |
| iii) | Concrete Quantity | Cubic meter/pole | 0.243m ³ |
| iv) | Concrete Covering to Wires | mm | 20 |
| 10 | GI Earthing Wire | SWG | 6 |
| 11 | Length of GI Earth Wire | Mtr | 7.8 |
| 12 | Weight of PSC Pole | Kg | 607 |
| 13 | 18 MM holes At a Distance from top | mm | 100, 200, 1000 (RDSS-LR) |
| 14 | Engraving Marking | | Developer under RDSS, NBPDC, Makers Sr. No., Manufacturer's Name Month/Year of Manufacture, RDSS-LR |
| 15 | Pole Painting for Identification | | Three Feet from top shall be painted with Maroon Colour as per IS- 5/2007/541 |
| 16 | Standard confirming to | | |
| | Pole | | IS: 1678/2000 |
| | Cement | | IS: 8041 |
| | Aggregates | | IS: 383/1970 |
| | Pre stressing wire | | IS:6003/1983 |
| | Concrete Mix | | IS: 456/2000 |
| | Tolerance Dimensions | | a) +- 15mm on overall length of pole b) +- 5 mm on sectional dimation 0.5% on the uprightness of pole |

APPROVED
 I hereby confirm that
 the responsibility of the
 work is
 transferred to the
 contractor
 on the date of
 signing of this
 certificate
 Project: Urban
 NBPDC

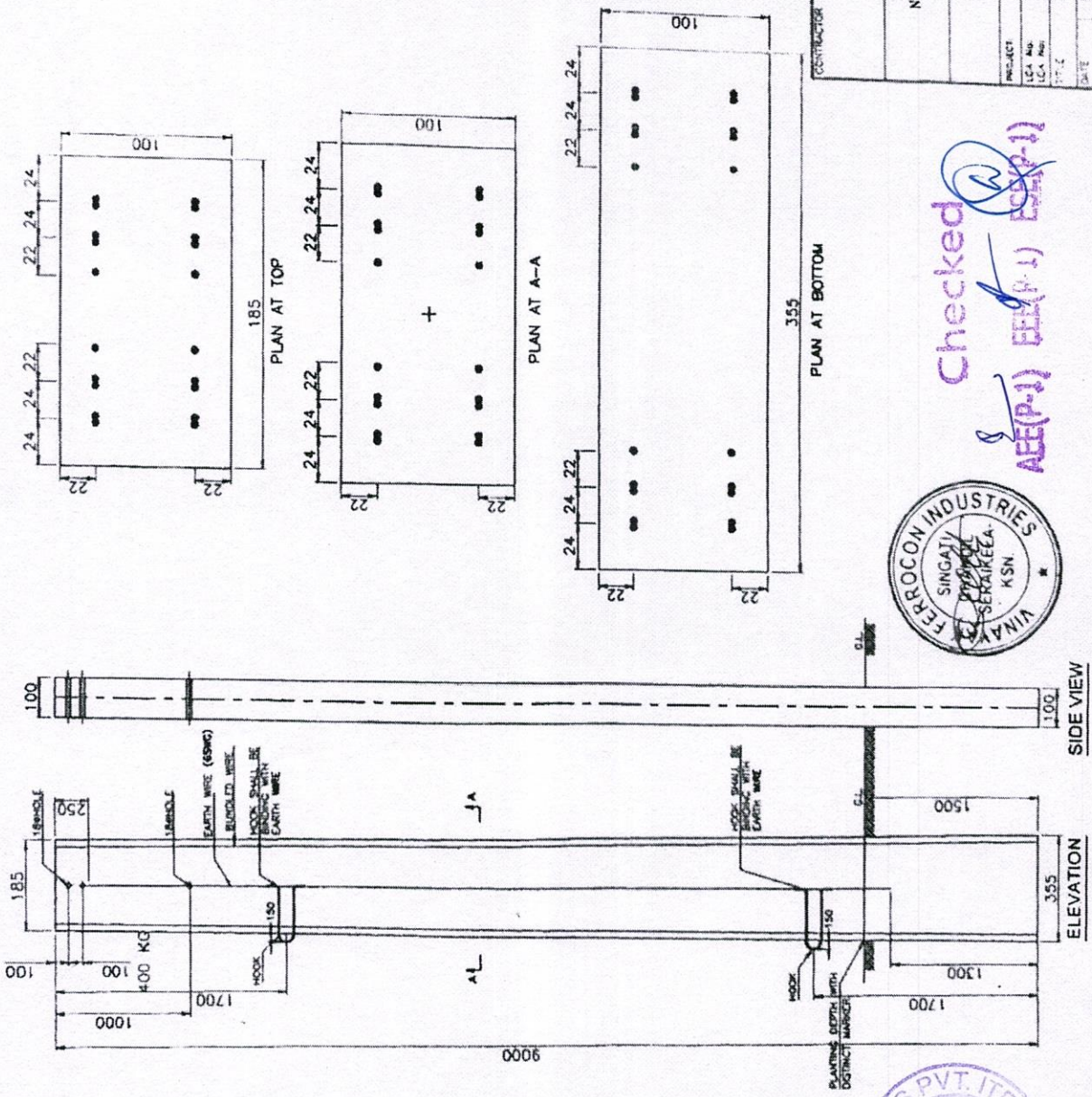


Checked
 AEE(P-1) EEE(P-1) ESEP-1

| S. NO | DESCRIPTION | QUANTITY |
|-------|--|--------------------------|
| 1 | NO. OF TENSIONED WIRES (4mm) | 20 nos |
| 2 | CONCRETE GRADE | M-40 |
| 3 | OVERALL LENGTH SUPPORT | 9.0 MTR |
| 4 | PLANTING DEPTH | 1500 MM |
| 5 | DIA OF PRESTRESSING WIRE | 4 MM |
| 6 | CLEAR COVER | 22 MM |
| 7 | FACTOR OF SAFETY | 2.5 |
| 8 | WORKING LOAD | 300 KG |
| 9 | ULTIMATE TENSILE STRENGTH OF PRESTRESSING WIRE | 17000 KG/CM ² |
| 10 | D.I. Earth wire 6 SWC | 1 NO. |

LEGEND:
 ● DENOTES TENSIONED WIRES
 + DENOTES POSSIBLE POSITION OF EARTH WIRE

NOTES:
 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
 2) POLE WITH ANY TWO EDGES ROUNDED SHALL ALSO BE ACCEPTABLE.
 3) TOLERANCE FOR UPRIGHTNESS SHALL BE 0.5%



APPROVED
 Subject to the condition that you are not relieved to the responsibility of correctness of the field

CE (Project) Urban
 APPDCL

NORTH BIHAR POWER DISTRIBUTION COMPANY LIMITED

Checked
 AEE(P-1) BEL(P-1) BSA(P-1)



| | | |
|------------|-------|----------|
| PROJECT | SCALE | DATE |
| L.S.A. No. | M/S | 11-09-22 |
| L.S.A. No. | REV | 03 |

| | |
|------------|----------|
| CONTRACTOR | REV. NO. |
| | 0 |
| | SHT. NO. |
| | 01 |

| | | |
|------------|-------|----------|
| PROJECT | SCALE | DATE |
| L.S.A. No. | M/S | 11-09-22 |
| L.S.A. No. | REV | 03 |

| | |
|---|----------|
| CA. OF 9.0 MTR/300KG. PSC POLE (100MM WIDTH POLE) | REV. NO. |
| | 0 |
| | SHT. NO. |
| | 01 |

