



# NORTH BIHAR POWER DISTRIBUTION CO. LTD.

**(Regd. Office: Vidyut Bhawan, Bailey Road, Patna)**

CIN No: U40109BR2012SGC018920

**[Office of Chief Engineer, Project-II]**

Letter No: 163

Contact No: +91-9264437179

[File No: NB/P-II/RDSS/V.A/Begusarai-Ranjeet Con./55/2023]

Dated: 14/06/2023

E-mail: cerdssnbpdc12@gmail.com

From,

Pranav Kumar  
Chief Engineer (Project-II)

To,

**M/s Techno Power Enterprises Pvt. Ltd.**  
INFINITY "THINK TANK" Tower II, 10th Floor Plot No A3, Block-GP, Sector V,  
Salt Lake City, Kolkata -700091 (WB)  
**Email:** tpeplpatna@mail.com, smurarka\_1@hotmail.com, rabi@rausheenagroup.com

**Sub: - Approval of GTP & Drawings of 8Mtr. 200kg PSC Pole against NIT No: 34/PR/NBPDCL/2022 for Begusarai Circle.**

- Ref:**
1. This Office NOA No: 21 & 22 dated 06.03.2023.
  2. This office letter no.- 149 dated 09.06.2023.
  3. Your Letter No- TPEPL/NBPDCL-Approval/2023-24/052 dated- 13.06.2023.

With reference to the subject noted above, kindly find the copy of GTP & drawing of **8Mtr. 200kg PSC Pole** for Development of Distribution Infrastructure against NIT No: 34/PR/NBPDCL/2022 for Begusarai Circle under Revamped Reforms-Based And Results-Linked, Distribution Sector Scheme.

Sl. No.	Name of Item	Vendor Name
1	<b>8Mtr. 200kg PSC Pole</b>	<b>M/s Ranjeet Concrete Corporation,</b> Industrial Area, Barauni, P.O- Tilrath (Begusarai), Bihar

The correction wherever required in GTP/ Drawing submitted by you has been done. However, these Drawings shall be subject to correctness as per technical specifications of the tender document and the entire responsibility of the correctness of the drawing as per the specifications as well as supply of material according to the technical specifications of the contract agreement shall be responsibility of the contractor.

In case of any conflict or contradiction between GTP / Drawings & Technical Specifications, the decision of C.E. (Project-II) shall be final and binding on both the parties. Contractor shall have to replace the material to the entire satisfaction of the owner in case the material is found unsuitable for use in the project, at any stage. This approval is up to validity of valid type test certificate. In case any problem/ issue arises with regard to material/ vendor at any stage, NBPDC reserves the right to withdraw the approval of vendor as well as ask you to replace the materials at your own cost.

**Encl.:- As above.**

Yours faithfully

*Pranav Kumar*  
14.6.2023  
(Pranav Kumar)

**Chief Engineer (Project-II)**

Memo No 163

Dated 14/06/2023

Copy forwarded to M/s Vindhya Telelinks Ltd., Delhi / M/s Cabcon Limited, Kolkata/ M/s JSP Projects Limited, Ghaziabad / M/s Vaishno Associates Viduyt Projects LLP, Jaipur for kind information & necessary action.

*Pranav Kumar*  
14.6.2023

**(Pranav Kumar)**  
**Chief Engineer, Project-II**

Memo No 163

Dated 14/06/2023

Copy forwarded to Chief Engineer, Project-I (Urban) for kind information & necessary action.

*Pranav Kumar*  
14.6.2023

**(Pranav Kumar)**  
**Chief Engineer, Project-II**

Memo No 163

Dated 14/06/2023

Copy forwarded to Director Projects, NBPDCCL / OSD to MD, NBPDCCL for kind information.

*Pranav Kumar*  
14.6.2023

**(Pranav Kumar)**  
**Chief Engineer, Project-II**



Guaranteed Technical Particulars of 8 Mtr 200KG PSC Pole			
SI. No	Description	Unit	Particulars
1	Type of Pole		Pre Stress Concrete
2	Factor of Safety		2.5 ✓
3	Overall Length of Pole(Meter)	MTR	8 ✓
4	Working Load	Kg	200 ✓
5	Point of Application of Load		600 mm below from top ✓
6	Depth of Plantation (Black Coloured)	Mm	1500 ✓
7	Overall Dimensions		
i)	Bottom Depth	mm	290 ✓
ii)	top Depth	mm	145 ✓
	Breadth	mm	90 ✓
8	Reinforcement Details		
i)	Diameter of Pre Stressing Wire	mm	4 ✓
ii)	No. of Tensioned Wires	Nos.	12 ✓
iii)	No. of Untensioned Wire	Nos.	2 ✓
iv)	Length of each Untensioned wire	Mtr.	3.95
v)	Ultimate Tensile Strength	Kg/cm <sup>2</sup>	17500 ✓
vi)	Steel Quantity	Kg/pole	10.25 ✓
9	Concrete Detail (M-42 Grade) M-40 N-20		
i)	Cement Type		Ordinary Portland Cement
		Kg/cm <sup>2</sup>	210 kg/cm <sup>2</sup> after 72 Hrs (min) ✓
ii)	Concrete mix strength	Kg/cm <sup>2</sup>	420 kg/cm <sup>2</sup> after 28days (min) ✓
iii)	Concrete Quantity	Cubic meter/pole	0.157 m <sup>3</sup> ✓
iv)	Concrete covering to Wires	Mm	20 ✓
10	GI earthing wire	SWG	8 ✓
11	Length of GI Earth Wire	Mtr	7.25 ✓
12	Weight of PSC Pole	Kg	380 ✓
13	18 MM holes At a Distance of from top	Mm	100, 200 in elevation view 75, 375, 675, 975, 1275 in side view
14	Engraving Marking		Developed under RDSS/NBPDCI, Makers Sr No., Manufacturer's Name Month/Year of Manufacture
15	Standard confirming to		
	Pole		IS: 1678/2000
	Cement		IS:8041
	Aggregates		IS: 383/1970
	Pre stressing wire		IS:6005/1983
	Concrete Mix		IS:456/2000
	Tolerance Dimensions		+ * 15mm on overall length of pole.
			+ * 5mm on sectional dimension.
			0.5% on the uprightness of pole

The cement used in manufacture of PSC Pole shall conforming to IS 2819 1976 (specification for ordinary & low heat portland cement) or IS 8041 (specification for rapid hardening portland cement).

Poles has to be painted in max 2007 colour from top up to 3ft (1505/2007 541)

**APPROVED**  
Subject to the condition that we are not absolved of the responsibility of correctness of materials

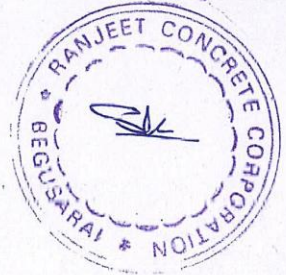
Note :- Left over Parameters if any shall be as per relevant IS and Technical specification of RDSS

Chief Engineer (Project-II), NBPDCI

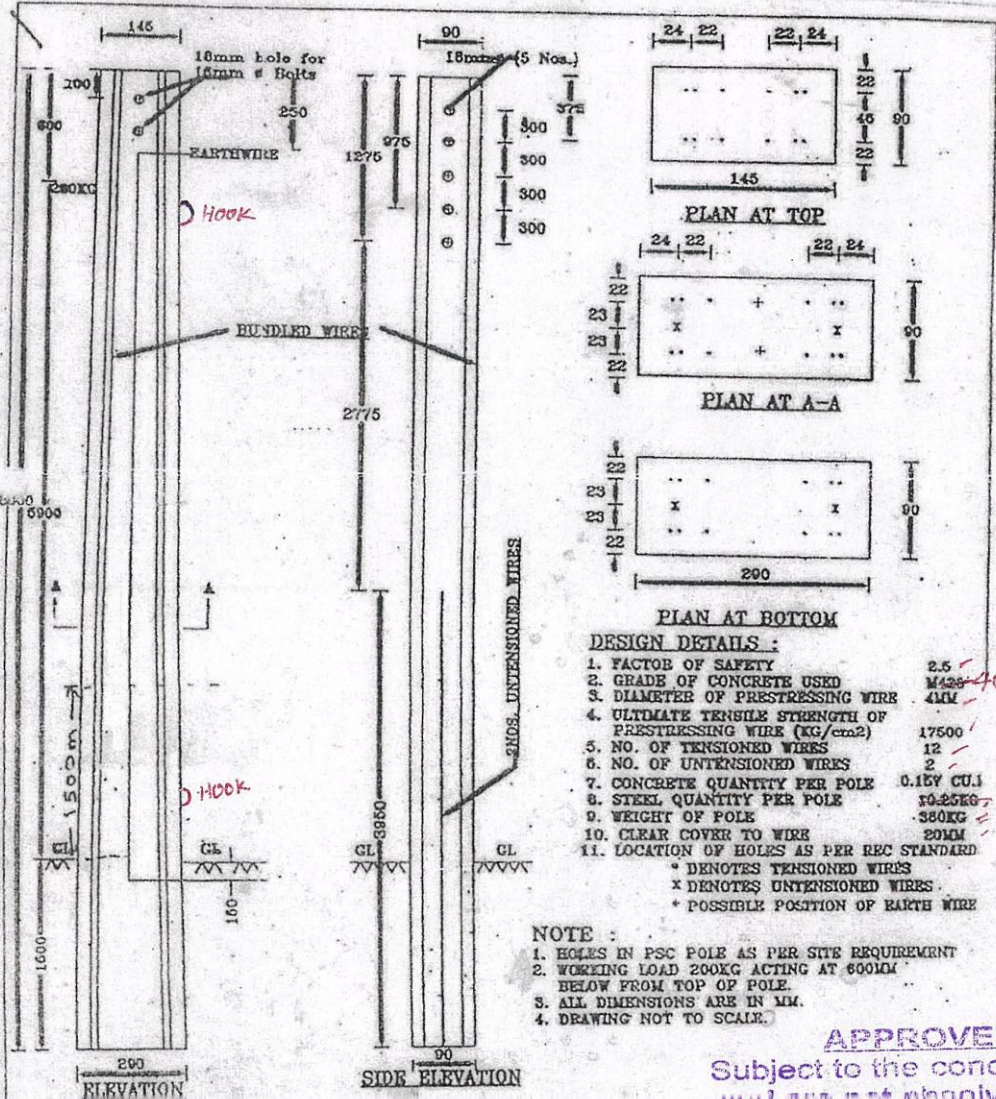


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Handwritten signature and initials.

AEE(P-II) EEE(P-II) ESE(P-II)







**DESIGN DETAILS :**

1. FACTOR OF SAFETY	2.5
2. GRADE OF CONCRETE USED	M42
3. DIAMETER OF PRESTRESSING WIRE	4MM
4. ULTIMATE TENSILE STRENGTH OF PRESTRESSING WIRE (KG/cm <sup>2</sup> )	17500
5. NO. OF TENSIONED WIRES	12
6. NO. OF UNTENSIONED WIRES	2
7. CONCRETE QUANTITY PER POLE	0.157 CU.M
8. STEEL QUANTITY PER POLE	10.25 KG
9. WEIGHT OF POLE	380KG
10. CLEAR COVER TO WIRE	20MM
11. LOCATION OF HOLES AS PER REC STANDARD	

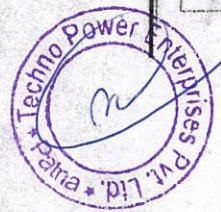
\* DENOTES TENSIONED WIRES  
 \* DENOTES UNTENSIONED WIRES  
 \* POSSIBLE POSITION OF EARTH WIRE

- NOTE :**
- HOLES IN PSC POLE AS PER SITE REQUIREMENT
  - WORKING LOAD 200KG ACTING AT 600MM BELOW FROM TOP OF POLE.
  - ALL DIMENSIONS ARE IN MM.
  - DRAWING NOT TO SCALE.

**APPROVED**  
 Subject to the condition that you are not absolved of the responsibility of Correctness of materials

<p><b>NOTE:</b>          MARKING EMBOSSED ON TRANSVERSE FACE OF POLE WORKING LOAD 200 KG ACTING AT 600MM BELOW FROM TOP OF POLE.          ALL DIMENSIONS ARE IN MM          DRAWING NOT TO SCALE          MS RODRINGS ON EACH END AS PER GTP          12 Nos OF 4 MM DIA HT WIRE          2Nos OF 4 MM DIA OF UNTENSIONED WIRE OF LENGTH 3.95m EACH.</p>	<p>Manufactured:- Ranjeet concrete corporation          Barauni industrial area, Tilrath, Begusarai          Details of 8mtr/200kg psc pole</p>
	<p>Client:- NORTH BIHAR POWER DISTRIBUTION CO. Ltd Patna</p>
	<p>NOA NO : 21 &amp; 22 Date 06/03/2023          FILE NO : NB/P-11/RDSS/Tender25/2022</p>

*Ranjeet Kumar*  
 Chief Engineer (Project-II)  
 NBPDCI



**CHECKED**

*Ranjeet Kumar*  
 AEE(P-II) EEE(P-II) ESE(P-II)

