



# NORTH BIHAR POWER DISTRIBUTION CO. LTD. <sup>153</sup>

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

CIN No: U40109BR2012SGC018920

[Office of Chief Engineer, Project-II]

Letter No: 299

[File No: NB/P-II/RDSS/V.A/Begusarai/M/s Vaidyanath-99/2023]

Contact No: +91-9264437179

Dated: 21/07/2023

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@gmail.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. Director (Projects) NBPDC letter no.- 136 dated 17.07.2023.
  3. Your Letter No- TPEPL/NBPDCL-Approval/2023-24/063 dated- 19.07.2023.

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	8Mtr. 200kg PSC Pole	M/s Vaidyanath Pole Industries, Dhamni Road, Near Jagdishpur, Railway Station, Jagdishpur. Deoghar, Jharkhand- 815353

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*  
21.7.2023

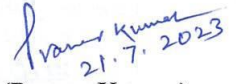
(Pranav Kumar)

Chief Engineer (Project-II)

Memo No 299

Dated 21/07/2023

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

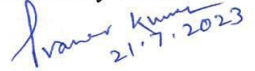
  
21.7.2023

(Pranav Kumar)  
Chief Engineer, Project-II

Memo No 299

Dated 21/07/2023

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

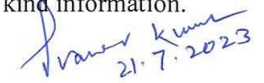
  
21.7.2023

(Pranav Kumar)  
Chief Engineer, Project-II

Memo No 299

Dated 21/07/2023

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

  
21.7.2023

(Pranav Kumar)  
Chief Engineer, Project-II

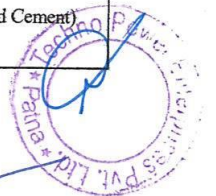
### Guaranteed Technical Particulars of 8 Mtr 200KG PSC Pole

SI. No	Description	Unit	Particulars
<div style="text-align: right; font-weight: bold; color: purple;">APPROVED</div> <div style="text-align: center; font-weight: bold; color: purple;">CHECKED</div> <div style="text-align: right; font-weight: bold; color: purple;">Chief Engineer (Project)</div> <div style="text-align: right; font-weight: bold; color: purple;">NBPDCCL</div>			
<div style="text-align: right; font-size: small; color: purple;">Subject to the condition that you are not absolved of the responsibility of correctness of materials</div>			
<div style="text-align: center; font-weight: bold; color: purple;">AFE(P-II) EEE(P-II) ESE(P-II)</div>			
Client	North Bihar Power Distribution Company Limited, Patna		
Project	Development of Distribution Infrastructure of Loss Reduction works at Begusarai and Khagaria Districts Under Revamped Distribution Sector Scheme 1 of RDSS scheme		
LOA Ref No	21 & 22; Dated: 06-03-2023 Fill No. NB/P-II/RDSS/Tender/25/2022		
Contractor	Techno Power Enterprise Pvt. Ltd.		
Name of Manufacture	Vaidyanath Pole Industries		
Manufacturing Unit	Dhamni Road, Near Jagdishpur Railway Station, Jagsidhpur, PO- Madhupur, Dist. Deoghar, Jharkhand		
1	Applicable Standard		As per IS 1678, IS 2905, IS 7321, IS 516 (Part-I) 2021
2	Type of Pole		Pre Stress Concrete ✓
3	Factor of Safety		2.5 ✓
4	Overall Length of Pole(Meter)	MTR	8 ✓
5	Working Load	Kg	200 ✓
6	Point of Application of Load		600 mm below from top ✓
7	Depth of Plantation (Black Coloured)	Mm	1500 ✓
8	<b>Overall Dimensions</b>		
	i) Bottom Depth Dimension	mm	290 ✓
	ii) top Depth Dimension	mm	145 ✓
	Breadth Dimension	mm	90 ✓
9	<b>Reinforcement Details</b>		
	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 pre stressing wire	Mtr.	8 ✓
	v) Ultimate Tensile Strength	Kg/cm <sup>2</sup>	17500 ✓
	vi) Steel Quantity	Kg/pole	11.5 ✓
9	<b>Concrete Detail</b>		
	i) Cement Type		Ordinary Portland Cement-43 Grade ✓
	ii) Concrete mix strength & Cube strength	Kg/cm <sup>2</sup> (72 Hrs)	210 kg/cm <sup>2</sup> at time of transfer of Prestress (min) ✓
		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	Depth of the Pole-20 Width of the Pole-22
10	GI earthing wire	SWG (4 mm)	8 SWG ✓
11	Length of GI Earth Wire	Mtr	7.25 weight of GI wire - 0.8 kg ✓
12	Weight of PSC Pole	Kg	380 (min) ✓
13	Engraving Marking		NBPDCCL, Developed under RDSS, Makers Sr No. and mark, Manufacturer's Name Month/Year of Manufacture, Transverse strength of pole in Kg, coloured indelible depth mark at 1.5 Mtr from bottom to verify planting depth. ✓
14	<b>Standard Confirming to -</b>		
	i) Pole		IS: 1678/2000 ✓
	ii) Cement		IS: 8041 E-1978 (Specification for rapid hardening portland Cement) ✓

\* Poles has to be painted in mason colour from top up to 3 ft (IS-5/2007) for all four faces of the pole.

Vaidyanath Pole Industries

Auth. Signatory



iii)	Aggregates	IS: 383/1970 As per relevant IS ✓
iv)	Pre stressing wire	IS:6003/1983 As per relevant IS ✓
v)	Concrete Mix	IS:456/2000 As per relevant IS ✓
vi)	Tolerance Dimensions	a) +15mm on overall length of pole ✓
		+5mm on sectional dimension ✓
		0.5%on the uprightness of pole ✓
15	Minimum Ultimate Transverse	500 Kg Load
16	Method of pre- stressing	By tensioning of H.T. wires through Hydraulic Tensioning Machine. ✓
17	Concrete Grade	M-40 ✓
<b>Note :- Left over Parameters if any shall be as per relevant IS and Technical specification of RDSS</b>		

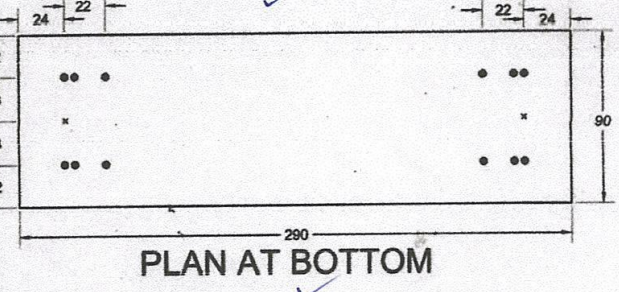
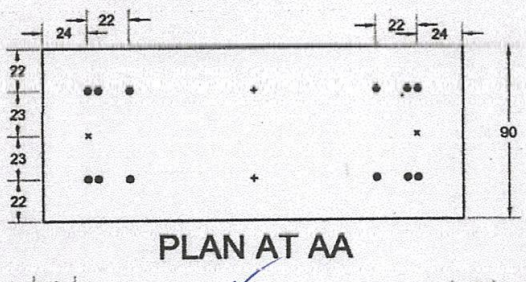
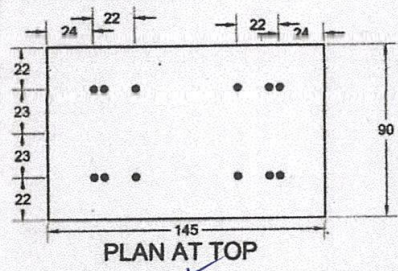
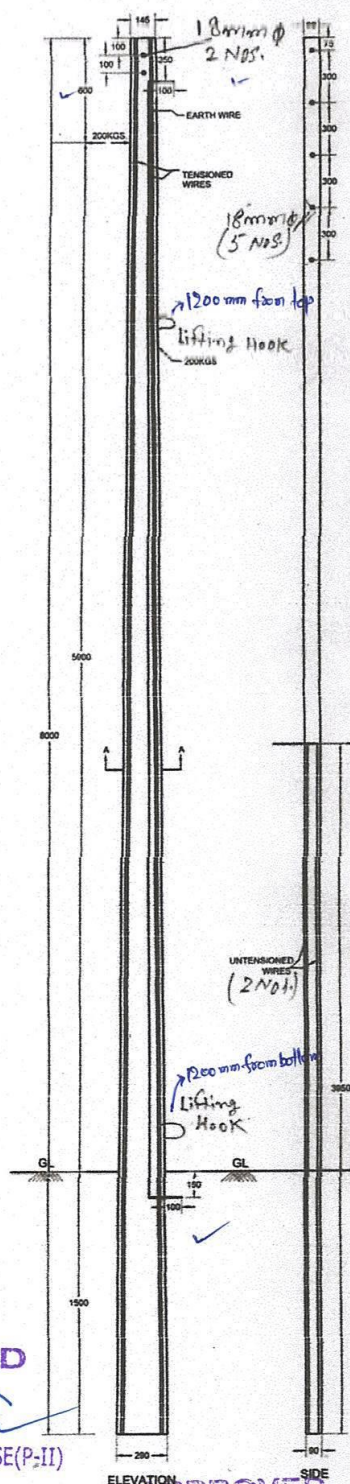
**CHECKED**  
  
 AEE(P-II) EEE(P-II) ESE(P-II)

**APPROVED**  
 Subject to the condition that  
 you are not absolved of the  
 responsibility of  
 Correctness of materials  
  
 Chief Engineer (Project-I)  
 NBPDCCL

Vaidyanath Pole Industries  
  
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**REINFORCEMENT DETAILS OF 8.0M/200KG  
PRESTRESSED CEMENT CONCRETE POLES (FACTOR OF SAFETY = 2.5)**



Location of Holes as per REC Standards  
 ● Denotes Tensioned Wire  
 × Denotes Untensioned Wire  
 + Possible Position of Earth Wire

**TECHNICAL GUARANTEE PARTICULARS OF 8.0MTR/200KG WORKING LOAD SECTION:**

A). TOP	145 X 90 MM
B). BOTTOM	290 X 90 MM
QUANTITY OF CONCRETE	0.157M3
CONCRETE GRADE	M-42 (F70-40)
OVERALL LENGTH SUPPORT	8.0 MTR
PLANTING DEPTH	1.5 MTR
DIA METER OF PRESTRESSING WIRE	4 MM
NUMBER OF TENSIONED WIRES	12 NOS
NUMBER OF UNTENSIONED WIRES	2 NOS
PRE-TENSIONED APPLIED TO EACH 4MM WIRE	1760 KGS
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS	420 KG/CM2 ✓
CLEAR COVER	20 MM
FACTOR OF SAFETY	2.5
WORKING LOAD	200 KGS
ULTIMATE LOAD	500 KGS
WEIGHT OF POLE (THEORETICAL)	380 KGS ✓
LOAD APPLICATION AT A POINT FROM THE TOP	600 MM ✓
ULTIMATE TENSION STRENGTH FOR 4MM WIRE	17500KG/CM2 ✓
ALL DIMENSIONS ARE IN MM	NOT TO SCALE

CLIENT	SOUTH BIHAR POWER DISTRIBUTION COMPANY LIMITED (SBPDCL)
PROJECT	REVAMPED REFORMS BASED AND RESULTS LINKED DISTRIBUTION SECTOR SCHEME

**CHECKED**  
*[Signature]*  
 E(P-II) EEE(P-II) ESE(P-II)

**APPROVED**  
 Subject to the condition that you are not absolved of the responsibility of Correctness of materials  
*[Signature]*  
 Chief Engineer (Project-II)  
 NRPCL

Vaidyanath Pole Industries,  
*[Signature]*  
 Auth. Signatory

