



# NORTH BIHAR POWER DISTRIBUTION CO. LTD.

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

**(Regd. Office: VidvutBhawan, Bailey Road, Patna)**

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[File No: NB/P-II/RDSSJGTP/Drawing/Darbhanga-20/2023]

Dated: 04/05/2023

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E-mail: cerdssnbpdc12@gmail.com

From,

Pranav Kumar  
Chief Engineer (Project-II)

To,

M/s JSP Projects Limited,  
Flat No. 3 2<sup>nd</sup> Floor, 3<sup>rd</sup> B-2,  
Neharu Nagar, Ghaziabad (UP)- 201001  
Email: [contract@jspprojects.com](mailto:contract@jspprojects.com)

**Sub: - Approval of GTP & Drawings of 8Mtr. 200Kg PSC Pole against NIT No: 31/PR/NBPDCL/2022 for Darbhanga Circle.**

**Ref: 1. This Office NOA No: 15& 16 dated 06.03.2023.  
2. Your Letter No- JSP/PAT/03 dated- 27.04.2023**

With reference to the subject noted above, kindly find enclosed the copy of approved GTP & drawing of **8Mtr. 200Kg PSC Pole** for Development of Distribution Infrastructure against NIT No: 31/PR/NBPDCL/2022 for Darbhanga 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 Gandhar Concrete Pole (Unit-II) at Muzaffarpur Darbhanga Highway, Near Methi toll Plaza, Gaighat, Muzaffarpur-843118

The Corrections wherever required in GTP/ Drawing submitted by you have 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.

Please carry out the works immediately under conditions stated above.

**Encl.:- As above.**

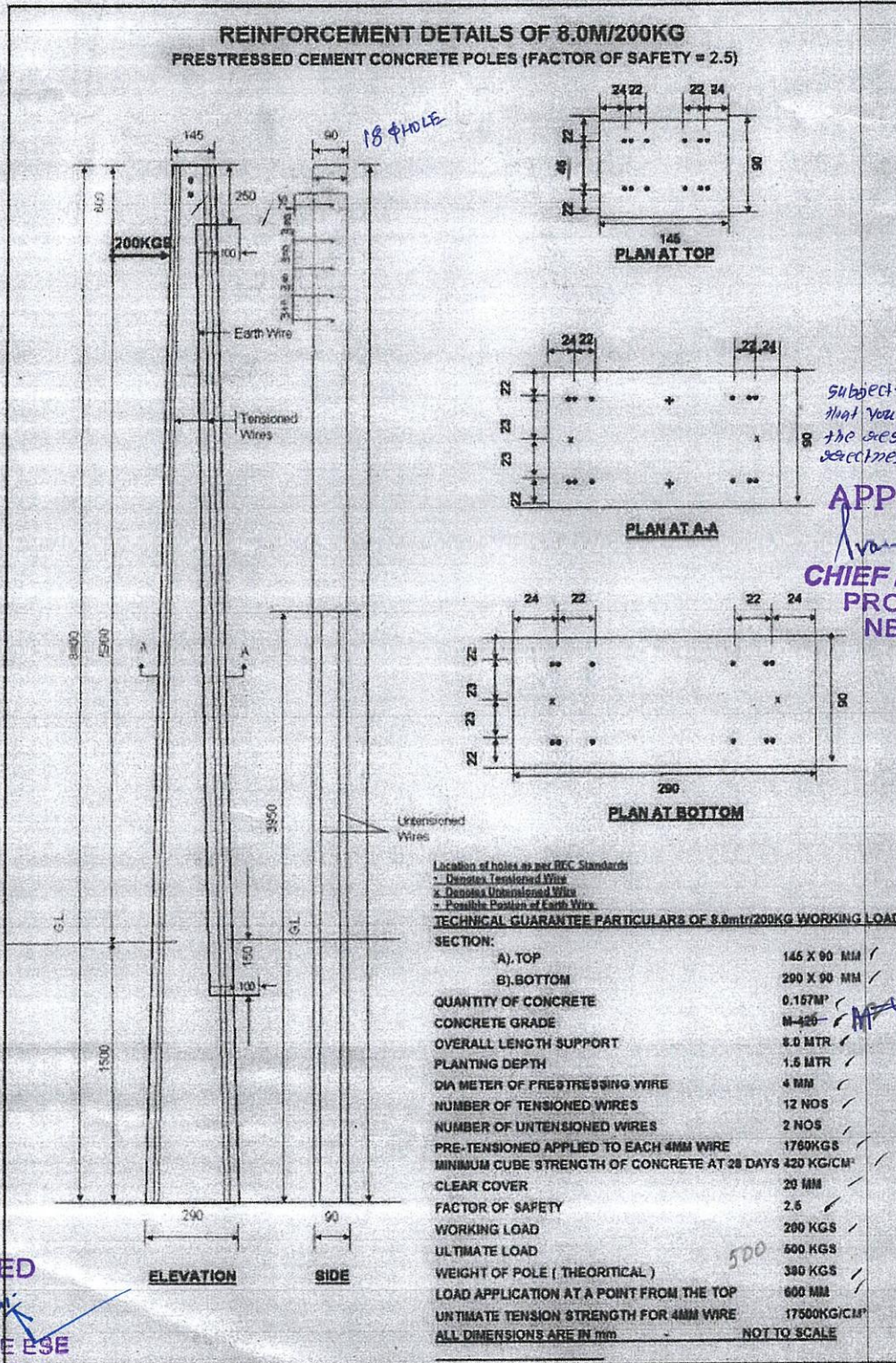
Yours faithfully

*Pranav Kumar*  
03.5.2023

(Pranav Kumar)

Chief Engineer (Project-II)

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



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

**APPROVED**

*Manoj Kumar*  
**CHIEF ENGINEER**  
**PROJECT-II**  
**NBPDCL**

**CHECKED**

*Jee AEE EEE ESE*  
**JEE AEE EEE ESE**  
**NBPDCL, PATNA**

*for ISP Project Patna*

<b>CLIENT</b>	NORTH BIHAR POWER DISTRIBUTION CO. LTD (NBPDCL)
<b>PROJECT</b>	Development of Distribution Infrastructure at Darbhanga Electric Supply Circle
<b>LOI NO.</b>	Supply Contract - NOA No.15 dated 06.03.2023
	Erection Contract - NOA No. 16 dated 06.03.2023
<b>Contractor</b>	ISP Projects Pvt. Ltd.



<b>CLIENT</b>	NORTH BIHAR POWER DISTRIBUTION CO. LTD (NBPDC)
<b>PROJECT</b>	Development of Distribution Infrastructure at Darbhanga Electric Supply Circle
<b>LOI NO.</b>	Supply Contract - NOA No.15 dated 06.03.2023
	Erection Contract - NOA No: 16 dated 06.03.2023
<b>Contractor</b>	JSP Projects Pvt. Ltd.

- 1. Name of <sup>Manufacturer</sup> tenderer : Gandhar Concrete Pole (Unit-II)
- 2. Manufacturing Unit : Muzaffarpur Darbhanga Highway Nr Methi toll plaza, Village Methi, Post Methi Thana Gaighat, Dist Muzaffarpur -843118
- 3. Over All Length : 8 Mtrs. ✓
- 4. Depth of Plantation : 1.5 Mtrs. ✓
- 5. Applicable Standard : As per IS 1678, IS 2905, IS 7321
- 6. Minimum Ultimate Transverse: 500 Kgs Load
- 7. Weight of pole in Kgs : 380 Kgs. Approx ✓
- 8. Factor of Safety : 2.5 ✓
- 9. Working Load Applied at 600 <sup>mm from TOP</sup>: 200Kgs

10. Volume of Pole In Cube Meters : 0.157 Cubic Meter ✓

11. Dimensions of the Poles

- A. Top Dimension : 90 MM X 145 MM ✓
- B. Bottom Dimension : 90 MM X 290 MM ✓

12. Actual Consumption / Quality

Of Materials used in Manufacture  
Of each P.S.C. Pole

- A. Cement : 87 Kgs. Appx. Exclusive of waste

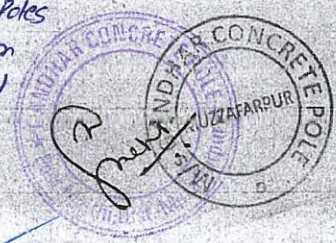
⇒ The cement used in manufacture of PSC Poles shall conforming to IS 269-1976 (Specification for ordinary and low heat portland cement) or IS 8041-1978 (Specification for ordinary portland cement).

*Signature*  
JSP Project Pvt. Ltd.  
*Patna*

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

**APPROVED**

*Signature*  
**CHIEF ENGINEER  
PROJECT-II  
NBPDC**



**CHECKED**

*Signature*  
**JEE AEE EEE ESE  
NBPDC PATNA**

- B. Aggregate : aggregate shall conform to IS : 383-1970 and the nominal max size of aggregate shall in no case exceed 12mm
- C. Sand : 2.10 CFT AS PER RELEVANT IS / 2.50 CFT
- D. Stone Chips : 4.20 CFT AS PER RELEVANT IS / 4.50 CFT / 12mm
- E. H.T. Steet Wire
  - 1. Dai of Wire : 4mm
  - 2. No. of Wire : 12 NOSTensioned Wires/2 no. Untensioned halfwires
  - 3. Weight of Wire : 12.00 Kgs Approx
- F. Other M.S. Reinforcements
  - a. H.T. Wire Rings : 4 mm H.T. Wire of 12 Nos.
  - b. Weight of Steel : 0.6 Kgs.
  - c. 4 mm Rod Hooks : 2 Nos.

13. Earthing Arrangement in each PSC Poles:

- a. Length of G.I. Wire & SWG : 6.5 Mtrs & SWG ~~7.25 mtrs~~ & 8SWG
- b. Weight of G.I. Wire : 0.8 Kgs.

14. Method of Pre- Stressing : By Tensioning of H.T. Wires through Hydraulic Tensioning Machine:

15. Conrecte mix & cube strength ->

- a. After 72 Hours : 210 Kgs/cum2 ✓
- b. After 28 Days : 420 Kgs/cum2 ✓

\* Ultimate tensile strength of pre stress wire = 17500kg/cm<sup>2</sup>

16. Pole Marking

- 1. NBPDCI
- 2. Month & Year of Manufacture.
- 3. Transverse Strength of pole in kg.
- 4. Coloured Indelible depth maker at 1.5

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

**APPROVED**  
*Praveen Kumar*  
**CHIEF ENGINEER**  
**PROJECT-II**  
**NBPDCI**

mtr from bottom to verify planting depth.  
5. maker's serial No. & mark.

\* The engraving of word "Developed under RDSS" is mandatory requirement

**CHECKED**  
*[Signature]*  
**JEE AEE EEE ESE**  
**NBPDCI, PATNA**

*Spetch*  
for JSP Project Patna

