NORTH BIHAR POWER DISTRIBUTION CO. LTD.

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

Letter No: 33 139 *Contact No: +91-9264437179*
[File No: NB/P-II/RDSS]Purnea/Cabcon/GTP&Dwg/2023]

Dated: 08/01/24 E-mail: cerdssnbpdcl2@gmail.com

From,

Pranav Kumar,
Chief Engineer (Projects-II)

To,

M/S CABCON India Limited
1st Floor, The Terminus Building, BG-12, Action Area -1B,
New Town, Kolkata-700156 Telephone/Fax numbers: 033 4036 5000
Email: project@cabconindia.com

Sub: - Approval of GTP & Drawings of 8 Meter 200 Kg Working Load PSC Poles of M/s Bokaro Cable and Conductors Private Limited, Balidih, Jharkhand against NIT No: 33/PR/NBPDCL/2022 for Purnea Circle.

Ref: 1. NIT No: 33/PR/NBPDCL/2022.
2. This Office NOA No: NB/P-II/RDSS/Tender/25/2022-19 & 20 dated 06.03.2023.
3. Your Letter No: CIL/NBPDCL/RDSS/Purnea/23-24/544 dated 05.01.2024.

Dear Sir,

With reference to subject noted above, please find attached herewith the GTP & Drawing of 8 Meter 200 Kg Working Load PSC Poles for Development of Distribution Infrastructure against NIT No: 33/PR/NBPDCL/2022 for Purnea Circle under RDSS Scheme. The materials list is as follows:

Sl. No	Name of Items	Name of Vendor
1	**8 Meter 200 Kg Working Load PSC Poles**	**M/s Bokaro Cable and Conductors Private Limited, Balidih Industrial Area, Balidih, Jharkhand-827014**

The Correction wherever required in GTP & Drawings submitted by the contractor 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 that of the contractor .

In case of any conflict or contradiction between GTP/Drawing & Technical Specification, the decision of Chief Engineer (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.

Please submit for pre-dispatch inspection at the earliest.

Encl: As above.

Yours faithfully,

08/1/2024

(Pranav Kumar)
Chief Engineer (Project-II)

Memo No. 33 **Patna, dated** 08/01/24

Copy forwarded to M/s NCC Limited, Hyderabad/M/s Vindhya Telelinks Limited, New Delhi/ M/s Polycab limited, Mumbai/M/s Ashoka Buildcon Limited, Nashik/M/s Vaishno Associates Vidyut Projects LLP, Jaipur/M/s M/s JSP Projects Private Limited, Ghaziabad/M/s Techno Power Enterprises Private Limited, Kolkata for information.

08/1/2024

(Pranav Kumar)
Chief Engineer (Project-II)

Memo No. 33 **Patna, dated** 08/01/24

Copy forwarded to Director (Projects)/OSD to MD, NBPDCL for kind information.

08/1/2024

(Pranav Kumar)
Chief Engineer (Project-II)

GURANTEED TECHNICAL PARTICULARS OF 8 MTR/200 KG PSC POLE

Owner / Name of Employee	
Name of Project	
1. Type of Pole Offered	: 200 Kg working strength P.C.C Pole with 2/5 holes as approved drawing & REC Specification.
2. Overall Length	: 8 Mtr
3. Depth of Plantation	: 1.5 Mtr
4. Applicable Standard	: As per IS: 1678, IS: 2905, IS: 7321, IS: 1343
5. Effective Length of Section	
a) Bottom	: 290 mm
b) Top	: 145 mm
6. Approximate Weight (Kg)	: 380 kg (Min.)
7. Sectional Dimensions of Pole	: Bottom :-290mm x 90 mm
	: Top :- 145mm x 90 mm
8. Working Load (Kg)	: 200 kg
9. Volume of PSC Pole	: 0.157 Cubic Meters
10. Concrete Grade	: M-420
11. Factor of Safty	: 2.5
12. Diameter of Wire	: 4MM
13. Ultimate Tensile Strength of Prestressing Wire (KG/cm2)	: 17500
14. No. of Tensioned Wires	: 12
15. No. of UnTensioned Wires	: 02
16. Weight of Wires	: 11.4 Kg (Min.)
17. Method of Pre-stressing	: By tension of HT wire through machine
18. Actual Consumption/Quantity of material used in Manufacture of each pole	
a) Cement	: 85 Kgs approx
b) Aggregate	: Mix of 12mm & 20mm dia
c) Sand	: 2.7 cft
d) Stone Chips	: 5.5 cft
19. Process of Compacting & Curing	: Compacting by shutter vibrators and curing by steam and spray water
20. Earthing arrangement in each PSC Pole	
a) Length of GI wire & SWG	: 6.5mtr 8 SWG
b) Weight of GI Wire	: 0.80 Kg approx
c) HT wire Hooks	: 2 nos.
19. Concrete mix & cube strength	
a) After 72 Hours	: min 210 kg/sq.cm
b) After 28 Days	: min 420 kg/sq.cm
20. Minimum Ultimate transverse Load	: 500 Kg
21. Pole Marking/Engraving	: Enraved shall be about 4.5 mtr below from top.
a) Name of Scheme	
b) Name of Agency	
c) Date of Casting	
d) Makers Sl. No.	
e)Dark blue band of Size 1 ft from top of pole	
f) Depth mark at 1.5 mtr from bottom to verify planting depth	

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

Chief Engineer (Project-II)
NBPDCL

CHECKED

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

NOTE:

(i) Contractors / Manufacturers are not absolved the responsibility of correctness of materials.
(ii) The material has must comply technical specification of REC and relevant IS.

CABCON Powering Generations	**CABCON INDIA LIMITED** 1st Floor, The Terminus Building, BG-12, Action Area - 1b, New Town, Kolkata - 700156, West Bengal, India
Contract Title :-	Development of Distribution Infrastructure at Purnea Electric Supply Circle (Purnea and Katihar Districts) of Bihar under Revamped Reforms-Based and Result-Linked, Distribution Sector Scheme against NIT No : 33/PR/NBPDCL/2022
Name of Client	**NORTH BIHAR POWER DISTRIBUTION COMPANY LIMITED** Office of Chief Engineer, Project-II, Vidyut Bhawan, Bailey Road, Patna-21
NAME OF MANUFACTURER :	M/s Bokaro Cable and Conductors Pvt.Ltd
N.O.A No :-	For Supply:- NB/P-II/RDSS/Tender/25/2022 -19 dated 06.03.2023
	For Erection:- NB/P-II/RDSS/Tender/25/2022 -20 dated 06.03.2023
DRG. TITLE :-	DTP & DRG of 8.0 MTR PSC Pole
DRW NO :	CAB/NBPDC./Purnea - Katihar/RDSS/2022-23/22 REV:-

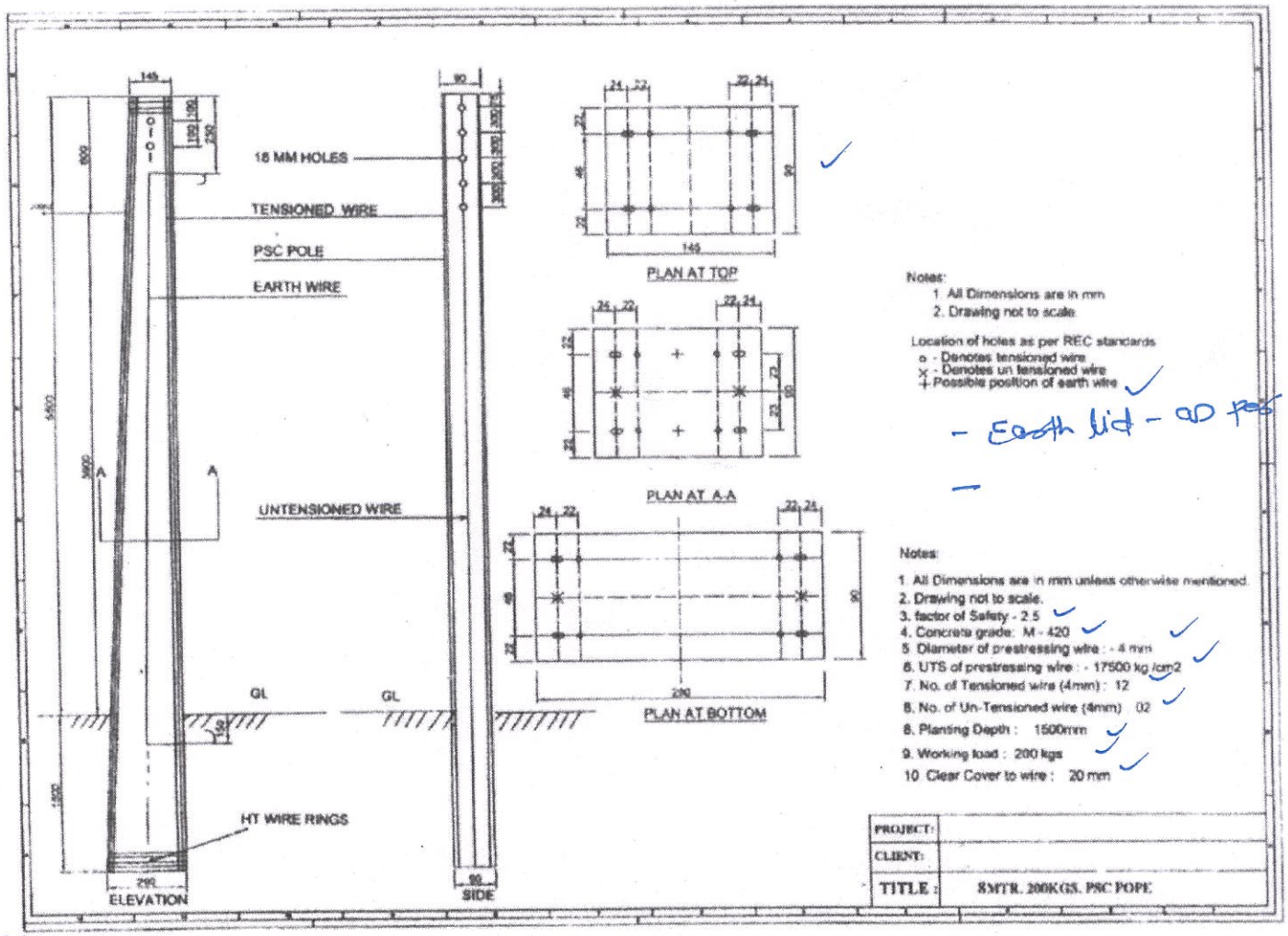
BOKARO CABLE AND CONDUCTORS PVT. LTD.

Director

(Signature)

Name and Designation with Seal

CABCON INDIA LTD. KOLKATA



Notes:
1. All Dimensions are in mm.
2. Drawing not to scale.

Location of holes as per REC standards
o - Denotes tensioned wire
x - Denotes un tensioned wire
+ Possible position of earth wire

Notes:
1. All Dimensions are in mm unless otherwise mentioned.
2. Drawing not to scale.
3. factor of Safety - 2.5
4. Concrete grade: M - 420
5. Diameter of prestressing wire : - 4 mm
6. UTS of prestressing wire : - 17500 kg /cm2
7. No. of Tensioned wire (4mm) : 12
8. No. of Un-Tensioned wire (4mm) : 02
8. Planting Depth : 1500mm
9. Working load : 200 kgs
10. Clear Cover to wire : 20 mm

PROJECT:	
CLIENT:	
TITLE :	8MTR. 200KGS. PSC POPE

- Earth lid - as per TS/IS/REC standards
- Marking:- Developed under RDSS/ RDSS-LR
- Three feet from top shall be painted with maroon colour as per IS-5/4900/5411.
- Coloured indelible depth marker at 1.5 mtr from bottom to verify planting depth.

CHECKED

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

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

Chief Engineer (Project-II)
NBPDCL

BOKARO CABLE AND CONDUCTORS PVT. LTD.
Director
(Signature)
Name and Designation with Seal

CABCON INDIA LTD. KOLKATA