



# NORTH BIHAR POWER DISTRIBUTION CO. LTD.

[Office of Chief Engineer, Project-II]  
(Regd. Office: Vidyut Bhawan, Bailey Road, Patna)

CIN No: U40109BR2012SGC018920

Letter No: 208

Contact No: 91-9264437179

[File No: NB/P-II/RDSS/Purnea/Cabcon/67//2023]

Dated: 23/06/2023

E-mail: cerdssnbpdc12@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](mailto:project@cabconindia.com)

**Sub: - Approval of GTP & Drawings of 8 Meter 200 Kg Working Load PSC Poles and 9 Meter 300 Kg Working Load PSC Poles 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/23-24/66 dated 21.06.2023.

Dear Sir,

With reference to subject noted above, please find attached herewith the GTP & Drawing of 8 Meter 200 Kg Working Load PSC Poles and 9 Meter 300 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 G C Rajoria Precast Private Limited, Uttardinajpur, West Bengal
2	9 Meter 300 Kg Working Load PSC Poles	

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 carry out the works immediately under conditions stated above.

**Encl: As above.**

Yours faithfully,

*Pranav Kumar*  
23/6/23

(Pranav Kumar)

Chief Engineer (Project-II)

Memo No. 208

Patna, dated 23/06/2023

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.

*Pranav Kumar*  
23.6.2023

(Pranav Kumar)

Chief Engineer (Project-II)

Memo No. 208

Patna, dated 23/06/2023

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

*Pranav Kumar*  
23.6.2023

(Pranav Kumar)

Chief Engineer (Project-II)

*g*

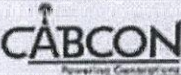

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**GUARRANTED TECHNICAL PARTICULAR (GTP)**

1	Over all length of the pole	8 meter ✓
2	Factor of safety	2.5 ✓
3	Working load applied at 600 MM from top	200 Kg ✓
4	Concrete mix	M 40 ✓
5	Concrete quantities Per Pole in Cubic Meter	0.157 Cu.m ✓
6	Minimum works cube strength	
	(i) At transfer of tensile load (72 Hrs.)	210 Kg/cm square ✓
	(ii) After 28 Days	420 Kg/cm square ✓
7	Dimension of Pole	
	(i) Top Dimesion	145mm x 90mm ✓
	(ii) Bottom Dimension	290mm x 90mm ✓
8	No. of Tensioned wire	12 ✓
9	No. of Untentioned wire	2 (Minimum Half of the Length)
10	Dia of prestressing wire	4 mm ✓
11	UTS of prestressing wire	175 KG/Sq.mm ✓
12	Weight of Pole	380 Kg ✓
13	Clean cover to wire	20 mm ✓
14	Dept of Plantation	1500 mm ✓
15	Position of G.I. Wire	8 swg left projecting 150 mm at 250 mm from the top and 150 mm Below G.L. ✓
16	Position of Rings	4 mm dia end ring 8 Nos. At Top and 8 Nos. at Bottom. ✓
17	Lifting Hooks	One each at a distance of 0.15 Times the overall length, from either end of the pole. ✓

18) Marking on poles (engraved)

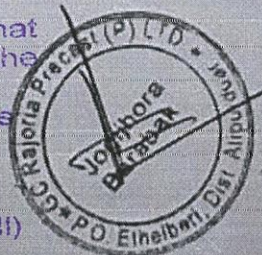
NBPDCL Material SJ. No  
Manufactures Name/Year  
of Mfg. (RDSS-II)

	<b>CABCON INDIA LIMITED</b> 1st Floor, The Terminus Building, BG-12, Action Area - 1a, New Town, Kolkata - 700156, Bengal, India	
<b>Contract Title:-</b>	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	
	<b>NORTH BIHAR POWER DISTRIBUTION COMPANY LIMITED</b> Office of Chief Engineer, Project-II, Vidyt Bhawan, Bailey Road, Patna-21	
<b>Name of Client</b>		
<b>NAME OF MANUFACTURER :-</b>	G.C. RAJORIA PRECAST PVT. LTD.	
<b>N.O.A No. :-</b>	<b>For Supply:-</b>	NB/P-II/RDSS/Tender/25/2022 -19 dated 06.03.2023
	<b>For Erection:-</b>	NB/P-II/RDSS/Tender/25/2022 -20 dated 06.03.2023

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

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

Chief Engineer (Project-II)  
NBPDCL

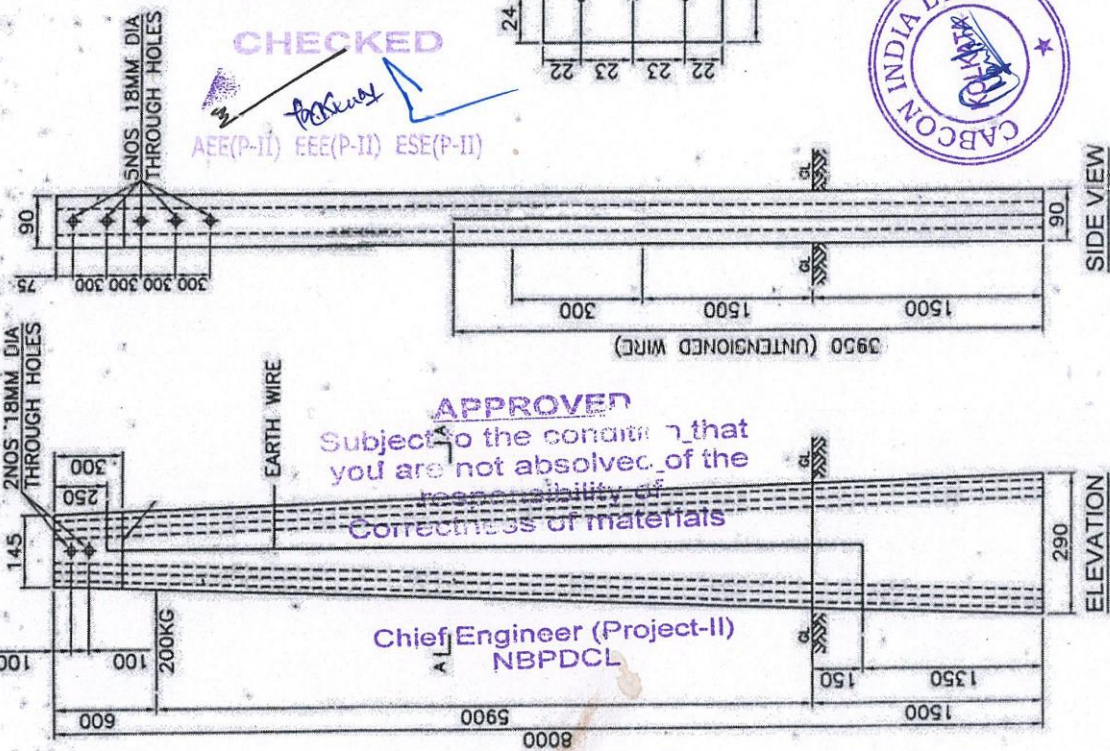
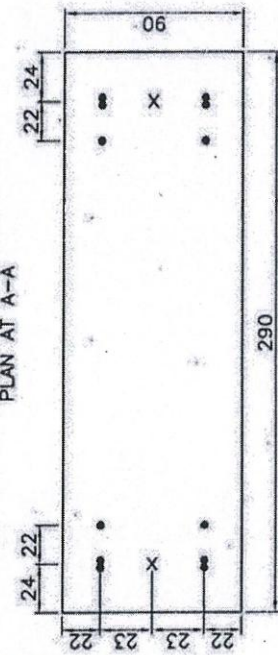
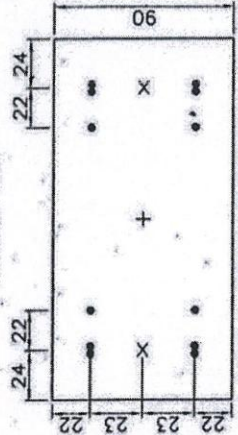
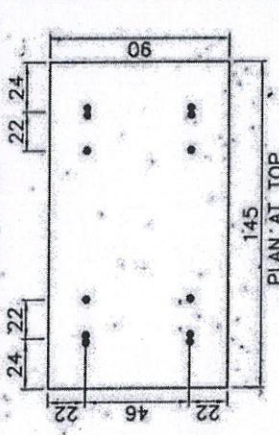


S.NO.	DESCRIPTION	QUANTITY
1	NO OF TENSIONED WIRES (4mm) 8000MM LONG	12
2	NO OF UNTENSIONED WIRES (4mm) 3850MM LONG	02 NOS.
3	CONCRETE QUANTITY FOR POLE	0.157M <sup>3</sup>
4	CONCRETE GRADE	M40
5	WEIGHT OF POLE	250KG (Approx)
6	CLEAR COVER TO WIRES	20MM
7	FACTOR OF SAFETY	2.5
8	BOTTOM SECTION	280000MM
9	TOP SECTION	145000MM
10	ULTIMATE TENSILE STRENGTH OF PRESTRESS/KG WIRE	7500KG/CM <sup>2</sup>
11	ESNG GJ EARTH WIRE	1 NO.

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

**NOTES:**  
 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.  
 2) ROGGY 12th SHOULD BE ENGRAVED ON POLE.

*Handwritten:* Top 3 feet of pole to be painted with IS-5: shades 541 in all four faces.



**CHECKED**  
*Handwritten:* AEE(P-II) FEE(P-II) ESE(P-II)

**APPROVED**  
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Chief Engineer (Project-II)  
 NBPDC

<b>CABCON</b> Powering Generations	<b>Contract Title:-</b>	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/NBPDC/L2022
	<b>Name of Client</b>	NORTH BIHAR POWER DISTRIBUTION COMPANY LIMITED Office of Chief Engineer, Project-II, Vidyut Bhawan, Bailey Road, Patna-21
<b>NAME OF MANUFACTURER :-</b>	GC Rajoria Precast Pvt. Ltd.	
<b>N.O.A No :-</b>	For Supply:- NBP/II/RDSS/Tender/25/2022 -19 dated 06.03.2023 For Erection:- NBP/II/RDSS/Tender/25/2022 -20 dated 06.03.2023	
<b>DRG. TITLE :-</b>	PSC Pole 8.0 Meter Long X 200 Kg	
<b>DRW NO :-</b>	CAB/SBPDC/L/Purnea - Katihar/RDSS/2022-23/ 01	<b>REV :</b>
<b>Drawn By</b>	Checked By	<b>Approved By</b>
		<b>DATE :</b>



**Guaranteed Technical Particulars of 9 Mtr 300 KG PSC Pole**

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 ✓
	Breadth	mm	100 ✓
8	Reinforcement Details		
i)	Diameter of Pre Stressing Wire	mm	4 ✓
ii)	No of . Tensioned Wire	Nos.	20 ✓
iii)	No . Of Untensioned Wire	Nos .	0 ✓
iv)	Length of each pre stressing wire	Mtr.	9 ✓
v)	Ultimate Tensile Strength	Kg/cm2	17500 ✓
vi)	Steel Quantity	Kg/Pole	22 ✓
9	Concrete Detail		
i)	Cement Type		Ordinary Portland Cement -43 Grade ✓
ii)	Concrete Mix strength	Kg/ cm2	210 kg/cm2 at time of transfer of prestress (min) ✓
		Kg/ cm2	420 kg/cm2 at age of 28 days (min) ✓
		Cubic meter/p	
iii)	Concrete Quantity		0.243 m3 ✓
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 of from top	Mm	100, 200, 1000 ✓
14	Engraving Marking		NBPDCL, Developed under RDSS-LR, Maker's 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 strssing wire		IS: 6003/1983 ✓
	Concrete Mix		IS: 456/2000 ✓
	Tolerance Dimensions		a) + - 15 mm on overall length of pole ✓ + - 5 mm on overall length of pole ✓ 0.5 % on the uprightness of pole ✓

<b>CABCON</b>	<b>CABCONINDIALIMITED</b> <small>1st Floor, The Central Building, BG-12, Action Area-1b, New Town, Kolkata-700156, W Bengal, India</small>
<b>Contract Title:-</b>	Development of Distribution Infrastructure at Purnea Electric Supply Circle (Purnea and Katihar District) of Bihar under Revamped Reforms-Based and Result-Linked, Distribution Sector Scheme against NIT No : 33/PR/NBPDCL/2022
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**CHECKED**

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



Chief Engineer (Project-II)

