



NORTH BIHAR POWER DISTRIBUTION CO. LTD.

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

Letter No: 495
[File No:-N-XIII/RDSS/V.A/Chapra Circle-3043/2023-
Dated: 31-05-2023

E-mail: cerdssnbpdc@gmail.com

From,

Shriram Singh
Chief Engineer, Project-I (Urban)

To,

M/s NCC Ltd
NCC House, Survey no. 64, Madhapur,
Hyderabad, 500081
Email: elec.tenders@ncccltd.in

Sub:- Regarding approval of GTP & Drawing of 8 Mtr. 200 Kg PSC Pole of make M/s Bhole Nath Concrete Works, Manjhi for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme."

Ref:- (i) NOA No.-244 & 245 dated 06.03.2023
(ii) Your letter no.- NCCL/RDSS/NBPDCL/PATNA/046 dated 30.05.2023

Sir,

With reference to the above, please find the copy of approved GTP & Drawing of following item for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme":-

S.N.	Material Description	Vendor Name & Address
1	8 Mtr. 200 Kg PSC Pole	M/s Bhole Nath Concrete Works, Majhanpura, Manjhi, Chapra-841313

Correction where 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 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 Specifications, the decision of Chief Engineer, Project-(Urban) shall be final and binding on both parties. Contractor shall have to replace the material to the entire satisfaction of the purchaser in case the material is found unsuitable for use in the project, at any stage.

Please carry out the works immediately under the conditions stated above.

Encl:- As above

Yours faithfully

(Signature)
(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.- 495

Dated- 31-05-2023

Copy forwarded **M/s Vindhya Telelinks Limited**, Club 125, 6th floor, Tower A, Plot No- 3, 4 & 5, Sector 125, Noida, UP-201301 / **M/s Polycab India Ltd.**, Polycab House, 771, Pandit Satwalekar Marg, Mumbai / **M/s Ashoka Buildcon Ltd**, S.No.-861, Ashoka House, Ashoka Marg, Vadala, Nashik-422011 / for information and necessary action.

Encl:-As above

(Signature)
(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.- 495

Date- 31-05-2023

Copy forwarded to Chief Engineer, Project-II, NBPDCL for information and necessary action.

Encl:-As above

(Signature)
(Shriram Singh)

Chief Engineer, Project-I (Urban)

Guaranteed Technical Particulars of 8 Mtr 200KG 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	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 Wire	Nos.	12
iii)	No. of Untensioned Wire	Nos.	2
iv)	Length of each Untensioned Wire	Mtr.	3.95
v)	Ultimate Tensile Strength	Kg/cm2	17500
vi)	Steel Quantity	kg/pole	10.25
9	Concrete Details (M-42 GRADE)		
i)	Cement Type		Ordinary Portland Cement
ii)	Concrete mix strength	kg/cm2	210 kg/cm2 after 72 Hrs (min)
		kg/cm2	420 kg/cm2 after 28 days (min)
iii)	Concrete Quantity	Cubic meter/pole	0.157 m3
iv)	Concrete covering to Wire	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/NBPDCL, 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: 6003/1983
	Concrete Mix		IS: 456/2000
	Tolerance Dimensions		,+ 15mm on overall length of pole
			,+ 5mm on the uprightness of pole
			,0.5% on the uprightness of pole

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

NORTH BIHAR POWER DISTRIBUTION COMPANY LIMITED
 PROJECT Reformed Based and Result Linked Distribution Sector Scheme
 Contractor:- M/s NCC LIMITED
 LOA No. for Supply-244/N-XIII/P-I(U)/Tender (RDSS)-3050/2022 Dt:- 06.03.2023
 LOA No. for Erection-244/N-XIII/P-I(U)/Tender (RDSS)-3050/2022 Dt:- 06.03.2023
 TITLE GTP OF 8 MTR/200 KG PSC POLE
 Manufacturer- BHOLENATH CONCRETE WORKS, Majhanpura, Manjhi, Chapra

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

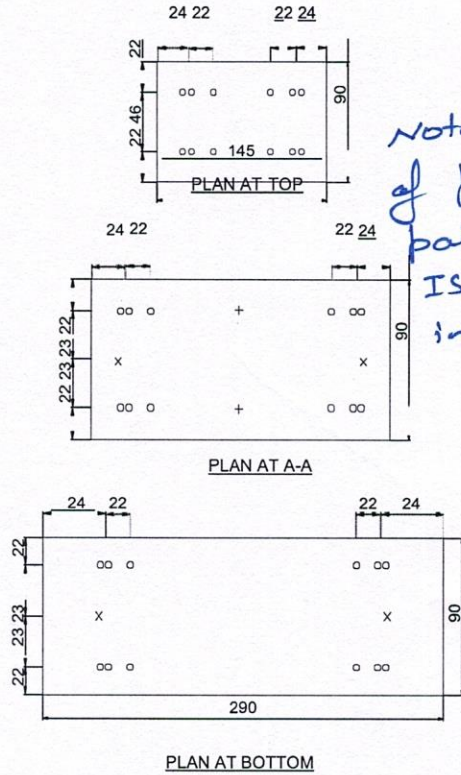
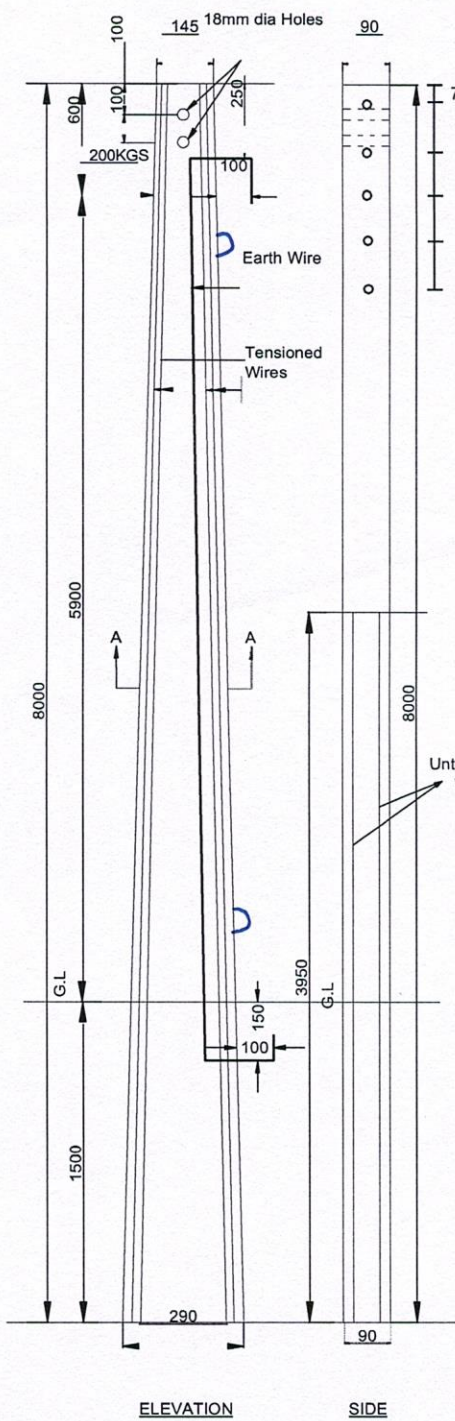


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CE (Project-1), Urban NBPDCL

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



Note - Top 3 feet of pole to be painted with ISS - shade 541 in all four faces.

Location of holes as per REC Standards
 O Denotes Tensioned Wire
 x Denotes Untensioned Wire
 + Possible Position of Earth Wire

TECHNICAL GUARANTEE PARTICULARS 8.0m/200kg WORKING LOAD

SECTION:

A) TOP	: 145 X 90 mm
B) BOTTOM	: 290 X 90 mm
QUANTITY OF CONCRETE	: 0.157 m ³
CONCRETE GRADE	: M-42
OVERALL LENGTH SUPPORT	: 8.0 m
PLANTING DEPTH	: 1.5 m
DIAMETER OF PRESTRESSING WIRE	: 4 mm
NUMBER TENSIONED WIRES	: 12 no's
NUMBER UNTENSIONED WIRES	: 2 no's
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS	: 420 kg/cm ²
CLEAR COVER	: 20 mm
FACTORY OF SAFETY	: 2.5
WORKING LOAD	: 200 kg
ULTIMATE LOAD	: 500 kg
WEIGHT OF POLE (THEORETICAL)	: 384 kg
LOAD APPLICATION AT A POINT FROM THE TOP	: 600 mm
ULTIMATE TENSION STRENGTH FOR 4MM WIRE	: 17500 kg/cm ²
G.I. EARTH WIRE 8SWG	: 1 no

ALL DIMENSIONS ARE IN mm

NOT TO SCALE

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 TITLE GA. OF 8.0 MTR/200 Kg PSC POLE.
 Manufacturer - BHOLENATH CONCRETE WORKS, Majhanpura, Manjhi, Chapra.

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NBPDC