



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: _____

[File No:-N-XIII/RDSS/GTP & Drawing/Chapra Circle-3012/2023-

Dated: _____

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 Narayan Concrete Industries, Samastipur for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme."

Ref:-

(i) NOA No.-247 & 248 dated 06.03.2023
(ii) Your letter no.-001 dated 18.04.2023

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
1	8 Mtr. 200 Kg PSC Pole	M/s Narayan Concrete Industries, Vill-Chandopatty, Karpurigram, P.O.- Shambhupatti, Samastipur

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
Sd/-

(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.-

Dated-

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 JSP Projects Pvt. Ltd., Flat No.- 5, 11nd Floor, 111rd B-2, Nehru Nagar, Ghaziabad (UP)- 201001/ M/s Polycab India Ltd., Polycab House, 771, PanditSatwalekar Marg, Mumbai / M/s Ashoka Buildcon Ltd, S.No.-861, Ashoka House, Ashoka Marg, Vadala, Nashik-422011 / M/s Vaishno Associates Vidyut Projects LLP, H.O-14-15, 3rd Floor, Gajraj Tower, Motilal Atal Road, Jaipur / M/S CABCON India Ltd., 1st Floor, The Terminus Building, BG-12, Action Area -1B, New Town, Kolkata-700156 / 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) for information and necessary action.

Encl:-As above

Sd/-

(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.- 447

Date- 19-05-2023

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

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)



M/s NARAYAN CONCRETE INDUSTRIES

[Manufacturer of Pre-Stressed Concrete Pole]

Mob.: 9934264512, 9102400801, email: ncindus@gmail.com

Ref.:

Date:

GUARANTEE TECHNICAL PARTICULARS OF 8 MTRS 200 KGS W/L PSC POLE

1	Name of Customer	: M/s North Bihar Power Distribution Company Limited
2	Contractor	: M/s NCC LIMITED - Hyderabad
3	Manufacturing Unit	: M/s Narayan Concrete Industries
4	Overall length of pole	: 8 Mtrs
5	Depth of plantation	: 1.5 Mtrs
6	Minimum ultimate transverse Load	: 500 Kgs
7	Weight of pole in K.g.	: 380 kgs
8	Factor of Sefty	: 2.5
9	Concrete Grade	: M-40-42
10	Working load applied at 600 mm from top	: 500 kgs
11	Volume of pole in Cube meters	: 0.157 cube meter
12	Dimension of poles	:
a.)	Top dimension	: 90 X 145 mm
b.)	Buttom dimension	: 90 x 290 mm
	manufacturing of each poles	:
c.)	Cement	: 87 kgs Approx Exclusive of Wastage
d.)	Aggregate	: 5.50 CFT
e.)	Sand	: 3.5 CFT
f.)	HT Steel wire	:
i)	Dia of wire	: 4MM/12 Nos wire full & 2 nos Half
ii)	No. of wire	: 12 Nos tensioned wire & 2 nos untensioned
iii)	Weight of wire	: 11.50 kgs Approx
e.)	Other M.S. Reinforcement	:
i)	HT Wire rings	: 4mm HT wire of 12 nos
ii)	Weight of steel	: 0.6 kg
iii)	H.T. Wire hooks	: 2 nos
13	Earthing Arrangement in each PSC poles	:
a.)	Length of GI Wire & SWG	: 7.5 mtr & 8 SWG
b.)	Weight of GI Wire	: 800 Gms
14	Method Of Pre-Stressing	: By tensioning of H.T. Wires through Hydraulic tensioning machine
15	Concrete mix & cube Strength	:
a.)	After 72 Hours	: 210 kgs/cum ² cm ²
b.)	After 28 days	: 420 kgs/cum ² cm ²
16	Ultimate Tensile strength of pre stressed wire	: 175 kg per sq mm

Applicable standards :-
 Cement - IS 269-1976
 Aggregate - IS 383-1970
 Marking on pole (Engraved) -
 NBPDC (RDSS-LR), Sr. No -
 manufacturer's name, Month/year.
 → Depth marker at 1.5 meters
 from bottom.
 Note - Top 3 feet of
 pole to be painted with
 IS 5-shade 541 in all
 four faces.

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



CE (Project-1) Urban
 NBPDC
 By tensioning of H.T. Wires through Hydraulic tensioning machine

Checked
 AEE(P-1) EEE(P-1) ESE(P-1)

Title Block for Bihar NBPDC - RDSS - CHAPRA. (Saran, Siwan and Gopalganj) Zones	
Scheme- Revamped Reforms-Based and Result- Linked, Distribution Sector Scheme (RDSS) - Bihar	
Project- Development of Distribution Infrastructure at Chapra Electric Supply Circle (Saran, Siwan and Gopalganj) of Bihar State On Turnkey Basis.	
LOA No.-244/N-XIII/P-I(U)/Tender (RDSS)-3050/2022 Dt:- 06-03-2023	
Item Description:- PSC Pole 8 Mtr Long 200 KG W/L	



Checked
 AEE(P-1) EEE(P-1) ESE(P-1)



M/s NARAYAN CONCRETE INDUSTRIES

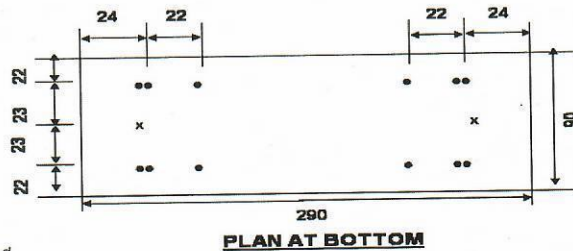
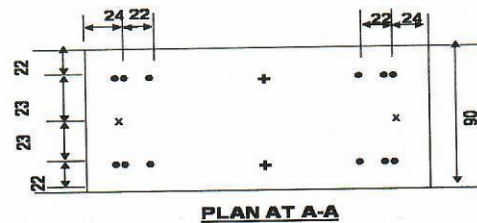
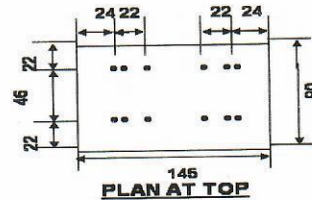
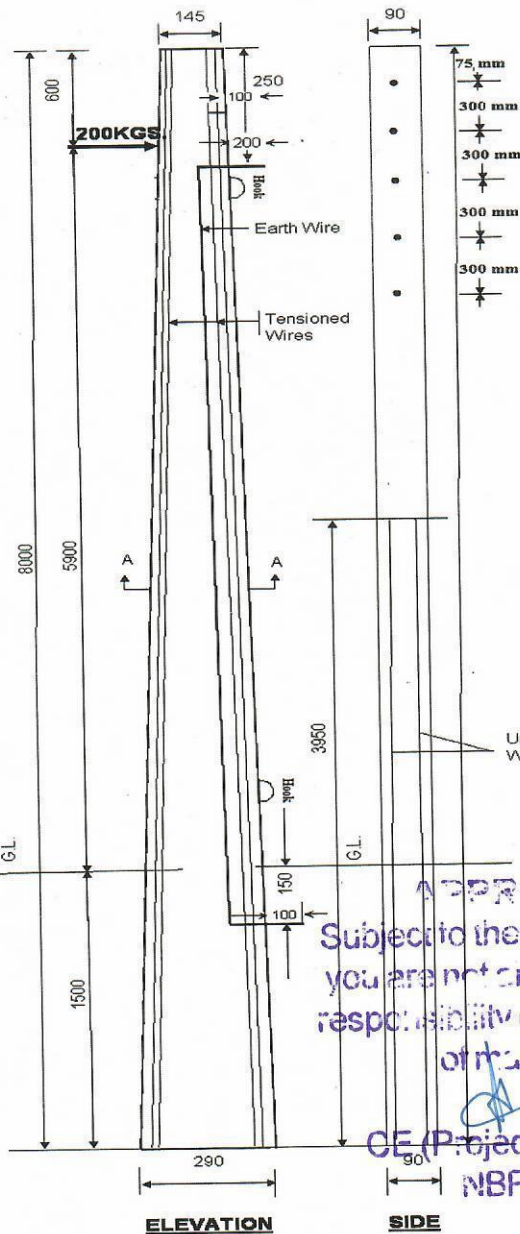
[Manufacturer of Pre-Stressed Concrete Pole]

Mob.: 9934264512, 9102400801, email: ncindus@gmail.com

Ref.:

Date:

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
- x 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		0.167M ³
CONCRETE GRADE		M-40 42
OVERALL LENGTH SUPPORT		8.0 MTR
PLANTING DEPTH		1.5 MTR
DIAMETER OF PRESTRESSING WIRE		4 MM
NUMBER OF TENSIONED WIRES		12 NOS
NUMBER OF UNTENSIONED WIRES		2 NOS
PRE-TENSIONED APPLIED TO EACH 4MM WIRE		1760KGS
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS		420 KG/CM ²
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/CM ²
ALL DIMENSIONS ARE IN mm		NOT TO SCALE

APPROVED
 Subject to the condition that you are not responsible for any loss or damage of material.

CE (Project-1) Dihar
 NBPDC



Checked
 N. Kar
 AEE(P-1) EEE(P-1) ESE(P-1)