



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: 1541

[File No:-N-XIII/RDSS/V.A/Samastipur Circle-3133/2023-

Dated: 25-10-23

E-mail: cerdssnbpdcl@gmail.com

From,

Shriram Singh
Chief Engineer, Project-I (Urban)

To,

M/s Polycab India Ltd.
Polycab House, 771,
Pandit Satwalekar Marg, Mumba
Email:- umesh.joshi@polycab.com

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

**Ref:- (i) NOA No.-248 & 249 dated 06.03.2023
(ii) Your letter no.-PIL/HO/22-23/NBPDCL/Misc/138 dated 20.10.2023**

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 Kishco Wax Industries, 80, Barauni Industrial Area, P.O.-Tilrath-851112, Dist.-Begusarai

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-I (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

(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.- 1541

Date- 25-10-23

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

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)

GURANTEED TECHNICAL PARTICULARS OF PSC POLES 8 METER LONG 200KG W/L

S No	Description	Guaranteed Value
1	Overall Length of Pole	8 Mtrs ✓
2	Depth of Plantation	1.5 Mtrs ✓
3	Minimum Ultimate Transverse Load	500 Kgs ✓
4	Weight of Pole	380 Kgs Approx. ✓
5	Factor of Safety	2.5 ✓
6	Concrete Grade	M-42 ✓
7	Volume of Concrete	0.157 CU Meter ✓
8	Working Load Applied at 600 MM from top	200 kg 500kg
9	DIMENSIONS of the POLES	
a	Top Dimension	90 MM x 145 MM ✓
b	Bottom Dimension	90 MM x 290 MM ✓
10	Quality of material used to manufacture each Pole	
a	Cement (Exclusive of wastage)	87kg (approx) As per IS 269-1976 ✓
b	Aggregate	5.50 CFT As per IS 383-1970 ✓
c	Sand	3.5 CFT As per relevant IS ✓
d	H.T. Steel Wire	IS: 1758 - 1983
(i)	Diameter of Wire	4mm ✓
(ii)	No. of Tensioned Wire	12 Nos ✓
(iii)	No. of Untensioned Wire	2 Nos Half Length ✓
(iv)	Weight of Wire	11.50 Kgs Approx
e	Other M.S. Reinforcement	
(i)	HT Wire Rings	4 mm HT Wire of 12 Nos.
(ii)	Weight of Steel	0.6 Kgs
(iii)	HT Wire Hooks	2 Nos
11	EARTH ARRANGEMENT IN EACH PSC POLES	
a	Length of GI Wire & SWG	7.25 Mtrs. & 8 SWG
b	Weight of GI Wire	800 Gms
12	Cube Strength of Concrete	
a	After 72 Hours	210 Kgs/cm ²
b	After 28 days	420 Kgs/cm ²
13	Method of Pre-Stressing / Tensioning of HT Wires	through Hydraulic Tensioning Machine
14	Ultimate Tensile Strength of Pre-Stress Wire	17500 Kg/cm ²
15	Marking On Pole (Engraved)	NBPDCL (RDSS-LR) S.No., Manufacturer Name, Month/Year of Manufacture-
16	Pole has to be painted in Maroon Colour (Top to 3 Ft)	IS: 5/2007/541

APPROVED
 Subject to the condition that you are not absolved to the responsibility of correctness of materials
 CE (Project-1), Urban
 NBPDCL

Note:- Top 3 feet of Pole to be painted with IS 5- Shade 54-1 in all four faces.

Title Block for Bihar NBPDCL - RDSS - SAMASTIPUR	
Scheme	Revamped Reforms-Based and Result-Linked, Distribution Sector Scheme (RDSS) - Bihar
Project	Development of Distribution Infrastructure at Bihar State on Turnkey Basis
Customer	North Bihar Power Distribution Co. Ltd.
Contractor	Polycab India Ltd.
LOA No	
Manufacturer	Kishco Wax Industries
Item Description	8.0 Mtr. 200 Kg. Working Load
GTP No.	1



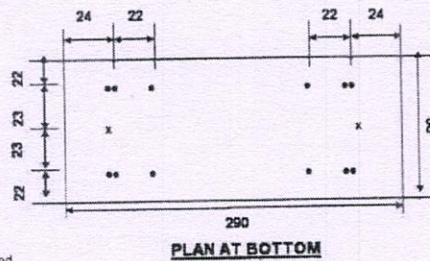
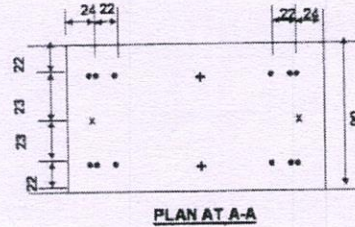
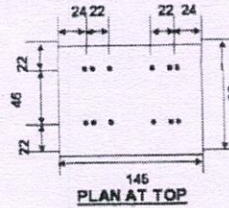
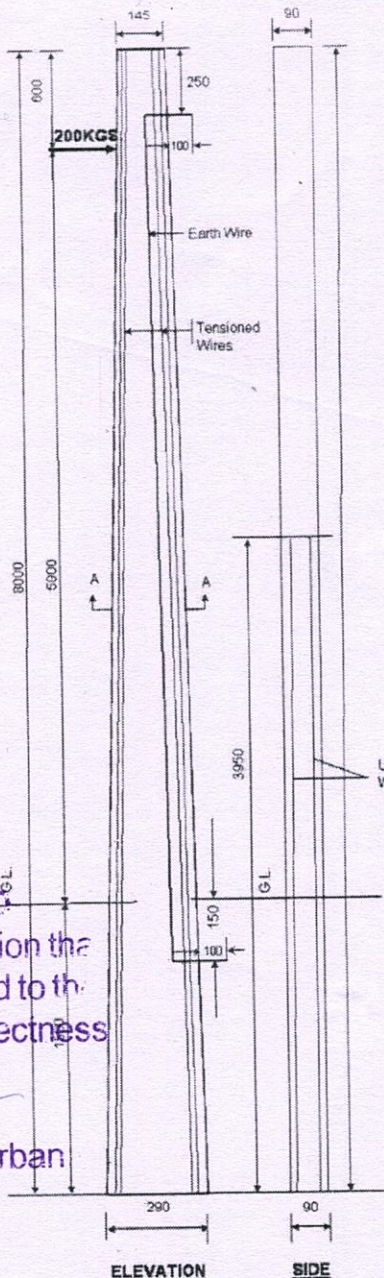
For KISHCO WAX INDUSTRIES

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

Proprietor

11

**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	0.157MP
CONCRETE GRADE	M-420
OVERALL LENGTH SUPPORT	8.0 MTR
PLANTING DEPTH	1.5 MTR
DIA METER 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

*Applicable Standards:-
 Cement - IS-269-1976
 Aggregate - IS-383-1970
 Marking on pole engraved
 NBPDC (RDSS-LR)
 S.No, Manufacture name
 month/year.*

APPROVED

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

CE (Project-1), Urban
 NBPDC

Note :- Top 3 feet of pole to be painted with IS 5 - Shade 541 in all four faces.

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LOA No	
Manufacturer	Kishco Wax Industries
Item Description	8.0 Mtr. 200 Kg. Working Load
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For KISHCO WAX INDUSTRIES



Proprietor

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