



NORTH BIHAR POWER DISTRIBUTION CO. LTD.

[Office of Chief Engineer, Project-I/Urban]

(Regd. Office: Vidyut Bhawan, Bailey Road, Patna)

Letter No: 1291
[N-XIII/RDSS/GTP&Drawing/Samastipur circle-3138/2023]

CIN No: U40109BR2012SGC018920
Contact No: +91-9031007064

Dated: 25-09-2023

E-mail: cerdssnbpdccl@gmail.com

From,

Shriram Singh,
Chief Engineer, Project-I/Urban

To,

M/s Polycab India Ltd.,
Polycab House , 771 Mogul Lane,
Mahim (W) , Mumbai-400016.
Email: umesh.joshi@polycab.com

Sub:- Approval of GTP & Drawing of M/s Jai Ambe Concrete Industries , Nalanda against NIT No.- 29/PR/NBPDCL/2022 for Development of Distribution Infrastructure at Samastipur Electric Supply Circle under RDSS scheme

- Ref:-** 1. NIT No: 29/PR/NBPDCL/2022
2. NOA No: 248 & 249 dated 06.03.2023
3. Your office letter no:PIL/HO/22-23/NBPDCL/Misc/84A dated 14.09.2023

Dear Sir,

With reference to the subject noted above, kindly find enclosed herewith the copy of approved GTP & Drawing of 8 mtr 200 Kg PSC Pole for Development of Distribution Infrastructure at Samastipur Electric Supply Circle against NIT No.- 29/PR/NBPDCL/2022 under RDSS scheme .

Sl. No.	Name of Item	Vendor Name
1	8 mtr 200 Kg PSC Pole	M/s Jai Ambe Concrete Industries , Sheikh Abdullah Road , Islampur , Nalanda- 801303

Corrections wherever required in GTP & Drawing submitted by you has been done in ink. However, these GTP & Drawings shall be subject to correctness as per technical specifications of the tender document and the entire responsibility of the correctness of the GTP & drawing as per the specifications as well as supply of material according to the technical specifications of the contract agreement shall be responsibility of the contractor.

In case of any conflict or contradiction between GTP / Drawings & Technical Specifications, the decision of C.E. (Project-I/Urban) 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. This approval is up to validity of valid type test certificate. In case any problem/issue arises with regard to material/vendor at any stage , NBPDCL reserves the right to withdraw the approval of vendor as well as ask you to replace the materials at your own cost.

Please carry out the works immediately under conditions stated above.

Encl:-As above

Yours faithfully,

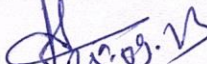

(Shriram Singh)

Chief Engineer, Project-I/Urban

Memo No.- 1291

Dated- 25-09-2023

Copy forwarded to M/s NCC Ltd. Hyderabad/M/s Vindhya Telcelinks Ltd., Rewa / M/s Ashoka Buildcon Ltd., Nashik for information and necessary action.


(Shriram Singh)

Chief Engineer, Project-I/Urban

Memo No.: 1291...../

Dated : 25-9-23

Copy forwarded to Chief Engineer (Project-II), NBPDCCL for kind information ..

(Shriram Singh)

Chief Engineer, Project-I/Urban

Memo No.: 1291...../

Dated : 25-09-23

Copy forwarded to Director (Project) , NBPDCCL for kind information.

(Shriram Singh)

Chief Engineer, Project-I/Urban

Memo No.: 1291...../

Dated : 25-09-23

Copy forwarded to PMA M/s Rodic Consultants Pvt. Ltd. for information and necessary action.

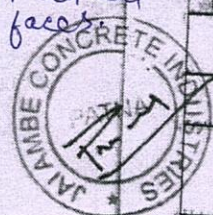
(Shriram Singh)

Chief Engineer, Project-I/Urban

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

- | | | | |
|----|---|---|--|
| 1 | Manufacturing Unit | : | Jai Ambe Concrete Industries |
| | A.) OFFICE | : | G-71, P.C.Colony, Kankarbagh, Patna-800020 |
| | B.) WORKS | : | Sheikh Abdullah Road, Islampur, Nalanda-801303 |
| 2 | Over All Length of Pole | : | 8 Mtrs. |
| 3 | Depth of Plantation | : | 1.5 Mtrs. (to be marked) |
| 4 | Minimum Ultimate Transverse Load | : | 500 Kgs |
| 5 | Weight of Pole in Kgs | : | 380 Kgs Approx. |
| 6 | Factor of Safety | : | 2.5 |
| 7 | Concrete Grade | : | M-42 |
| 8 | Working Load Applied at 600 mm from Top | : | 200 Kgs. |
| 9 | Volume of Pole in Cube Meters | : | 0.157 Cubic Meter |
| 10 | Dimension of the Poles | | |
| | a) Top Dimension | : | 90 x 145 mm |
| | b) Bottom Dimension | : | 90 x 290 mm |
| 11 | Actual Consumption/Quality of Material used in manufacture of each PSC Pole | | As per IS 269-1976 |
| | a) Cement | : | As per relevant IS |
| | b) Aggregate | : | As per IS 383-1970 |
| | c) Sand | : | As per relevant IS |
| | d) HT Steel Wire | | |
| | i) Dia of Wire | : | 4mm/12 Nos. Wire Full & 2 Nos. Half |
| | ii) No. of Wire | : | 12 Nos. Tensioned wires & 2 Nos. Untensioned |
| | iii) Weight of Wire | : | 11.50 Kgs. Approx |
| | e) Other M.S. Reinforcement | | |
| | i) H.T. Wire Rings | : | 12 Nos 4mm HT Wire |
| | ii) Weight of Steel | : | 0.6 Kgs. |
| | iii) H.T. Wire Hooks | : | 2 Nos. |
| 12 | Earthing Arrangement in each PSC Poles | | |
| | a) Length of G.I. Wire & SWG | : | 7.25 Mtrs. 8 SWG |
| | b) Weight of G.I. Wire | : | 800 Gms. |
| 13 | Method of Pre-Stressing | : | By tensioning of H.T. wires through Hydraulic Tensioning Machine |
| 14 | Concrete mix & cube strength | | |
| | a) After 72 Hours | : | 210 Kgs/cum ² cm ² |
| | b) After 28 days | : | 420 Kgs/cum ² cm ² |
| 15 | Ultimate Tensile strength of Pre-stress wire | : | 17500 kg per sq cm |
| 16 | Marking | : | RDSS/NBPDCL/Manufacturer's Name/Date of Casting Serial No |

Top 3 ft of pole to be painted with IS 5 - shade 541 in all four faces



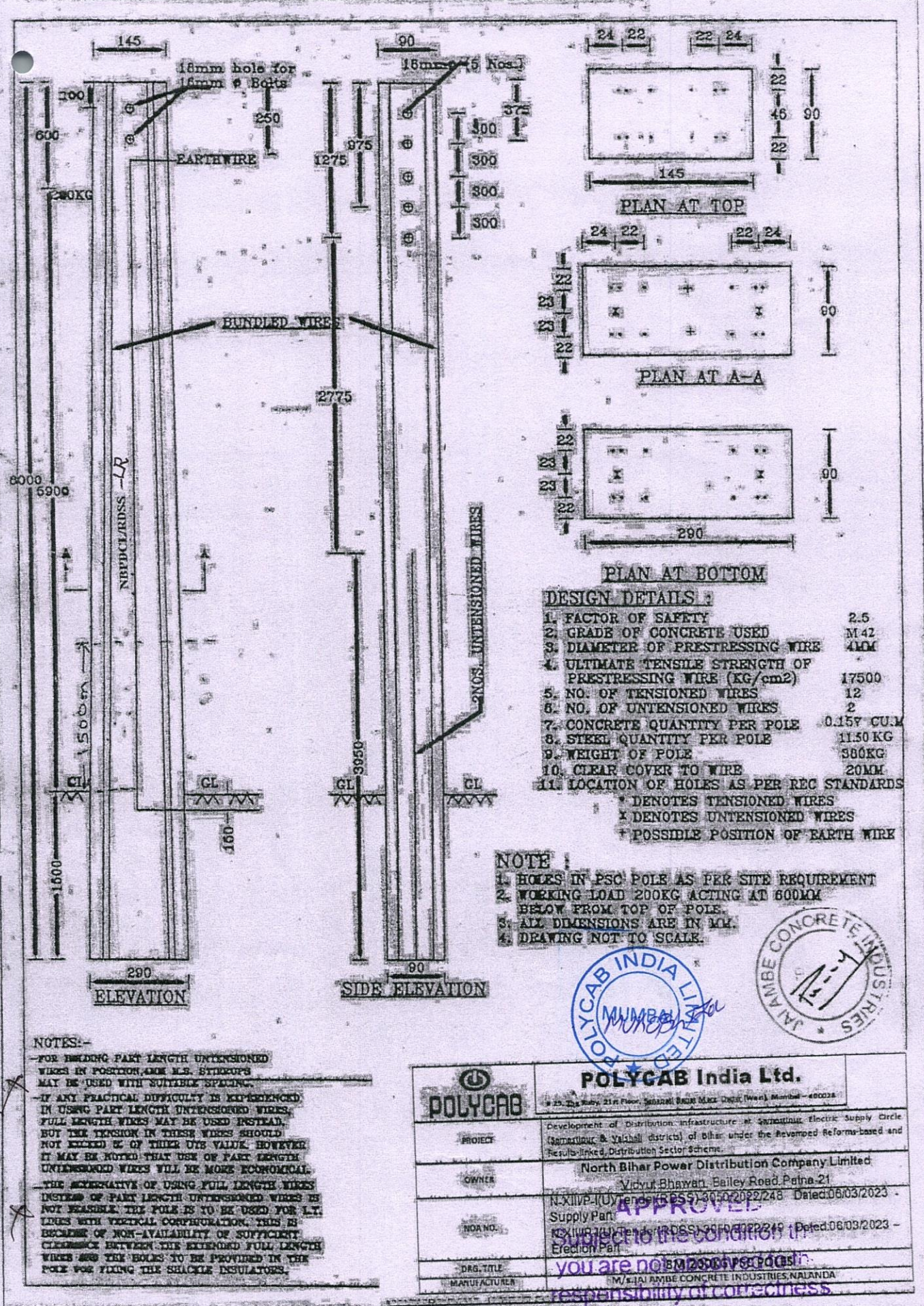
Checked

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

POLYCAB		POLYCAB India Ltd.
PROJECT		Development of Distribution Infrastructure at Substation Electric Supply Circle (Supatpur & Vihhal districts) of Bihar under the Revamped Reforms-based and Results-linked Distribution Sector Scheme.
OWNER		North Bihar Power Distribution Company Limited Vidyal Bhawan, Bailey Road, Patna-21
NOA NO.		N-XI/VP-I(U)/Tender(RDSS)-3050/2022/248 Dated:06/03/2023 - Supply Part N-XI/VP-I(U)/Tender(RDSS)-3050/2022/249 Dated:06/03/2023 - Erection Part
DRG TITLE		APPROVED BM 200KG PSC POLES
MANUFACTURER		M/JAI AMBE CONCRETE INDUSTRIES, NALANDA

you are not absolved to the responsibility of correctness of materials

CE (Project-1), Urban
NBPDCL



DESIGN DETAILS :

1. FACTOR OF SAFETY	2.5
2. GRADE OF CONCRETE USED	M42
3. DIAMETER OF PRESTRESSING WIRE	4MM
4. ULTIMATE TENSILE STRENGTH OF PRESTRESSING WIRE (KG/cm ²)	17500
5. NO. OF TENSIONED WIRES	12
6. NO. OF UNTENSIONED WIRES	2
7. CONCRETE QUANTITY PER POLE	0.157 CUM
8. STEEL QUANTITY PER POLE	11.50 KG
9. WEIGHT OF POLE	300KG
10. CLEAR COVER TO WIRE	20MM
11. LOCATION OF HOLES AS PER REC STANDARDS	

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

NOTE :

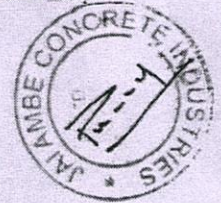
- HOLES IN PSC POLE AS PER SITE REQUIREMENT
- WORKING LOAD 200KG ACTING AT 600MM BELOW FROM TOP OF POLE
- ALL DIMENSIONS ARE IN MM.
- DRAWING NOT TO SCALE.

NOTES:-

-FOR BUILDING PART LENGTH UNTENSIONED WIRES IN POSITION, AND U.S. STROPS MAY BE USED WITH SUITABLE SPACING.

-IF ANY PRACTICAL DIFFICULTY IS EXPERIENCED IN USING PART LENGTH UNTENSIONED WIRES, FULL LENGTH WIRES MAY BE USED INSTEAD, BUT THE TENSION IN THESE WIRES SHOULD NOT EXCEED 80% OF THEIR UTS VALUE. HOWEVER IT MAY BE NOTED THAT USE OF PART LENGTH UNTENSIONED WIRES WILL BE MORE ECONOMICAL.

-THE ALTERNATIVE OF USING FULL LENGTH WIRES INSTEAD OF PART LENGTH UNTENSIONED WIRES IS NOT FEASIBLE. THE POLE IS TO BE USED FOR LT. LINES WITH VERTICAL CONFIGURATION. THIS IS BECAUSE OF NON-AVAILABILITY OF SUFFICIENT CLEARANCE BETWEEN THE EXTENDED FULL LENGTH WIRES AND THE HOLES TO BE PROVIDED IN THE POLE FOR FIXING THE SHACKLE INSULATORS.



POLYCAB India Ltd.	
<small>* 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100</small>	
PROJECT	Development of Distribution Infrastructure at Saranath Electric Supply Circle (Saranath & Valhall districts) of Bihar under the Revamped Reforms-based and Result-linked Distribution Sector Scheme.
OWNER	North Bihar Power Distribution Company Limited Vidya Bhawan, Bailey Road Patna-21
NO. AND DATE	N-XIVP-(UY) Tender No. 055/2022/248 Dated: 06/03/2023 - Supply Part N-XIVP-(UY) Tender No. 055/2022/249 Dated: 06/03/2023 - Erection Part
DRG. TITLE	you are not responsible for the responsibility of correctness
MANUFACTURER	M/S. JAMBE CONCRETE INDUSTRIES, NALANDA

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

of materials
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