



NORTH BIHAR POWER DISTRIBUTION CO. LTD.

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

CIN No: U40109BR2012SGC018920

[Office of Chief Engineer, Project-III]

Letter No: 300

[File No: NB/P-II/RDSS/V.A/Begusarai/ACE Infra/87/2023]

Dated: 21/07/2023

Contact No: +91-9264437179

E-mail: cerdssnbpdc12@gmail.com

From,

Pranav Kumar
Chief Engineer (Project-II)

To,

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)
Email: tpeplpatna@gmail.com, smurarka_1@hotmail.com, rabi@rausheenagroup.com

Sub: - Approval of GTP & Drawings of 8Mtr. 200kg PSC Pole & 9Mtr. 300kg PSC Pole against NIT No: 34/PR/NBPDCL/2022 for Begusarai Circle.

- Ref: 1. This Office NOA No: 21 & 22 dated 06.03.2023.
2. Director (Projects) NBPDCI letter no.- 128 dated 07.07.2023.
3. Your Letter No- TPEPL/NBPDCI-Approval/2023-24/064 dated- 19.07.2023.

With reference to the subject noted above, kindly find the copy of GTP & drawing of 8Mtr. 200kg PSC Pole & 9Mtr. 300kg PSC Pole for Development of Distribution Infrastructure against NIT No: 34/PR/NBPDCL/2022 for Begusarai Circle under Revamped Reforms-Based And Results-Linked, Distribution Sector Scheme.

Sl. No.	Name of Item	Vendor Name
1	8Mtr. 200kg PSC Pole	M/s ACE Infra & Security Pvt. Ltd., Rajan Path, Opp, RPS More, Danapur, Patna- 801503
2	9Mtr. 300kg PSC Pole	

The correction wherever 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 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 responsibility of the contractor.

In case of any conflict or contradiction between GTP / Drawings & Technical Specifications, the decision of C.E. (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. 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, NBPDCI reserves the right to withdraw the approval of vendor as well as ask you to replace the materials at your own cost.

Encl.:- As above.

Yours faithfully

Pranav Kumar
21.7.2023

(Pranav Kumar)

Chief Engineer (Project-II)

Memo No 300

Dated 21/07/2023

Copy forwarded to M/s Vindhya Telelinks Ltd., Delhi / M/s Cabcon Limited, Kolkata/ M/s JSP Projects Limited, Ghaziabad / M/s Vaishno Associates Vidyut Projects LLP, Jaipur for kind information & necessary action.

Pranav Kumar
21.7.2023

(Pranav Kumar)
Chief Engineer, Project-II

Memo No 300

Dated 21/07/2023

Copy forwarded to Chief Engineer, Project-I (Urban) for kind information & necessary action.

Pranav Kumar
21.7.2023

(Pranav Kumar)
Chief Engineer, Project-II

Memo No 300

Dated 21/07/2023

Copy forwarded to Director Projects, NBPDC / OSD to MD, NBPDC for kind information.

Pranav Kumar
21.7.2023

(Pranav Kumar)
Chief Engineer, Project-II

GURANTEE TECHNICAL PARTICULARS OF 8 MTRS LONG 200Kgs. W/L. PSC POLES	
Manufacturer	ACE INFRA & SECURITY Pvt. Ltd Mahendra Road, Faridpur, Fulwari sharif, Patna-13
Contractor	M/S TECHNO POWER ENTERPRISES (P) LTD, Infinity Think Tank Tower-II, 10th Floor, Plot-A3, Block-GP, Sect-V, Salt Lake City, Kolkata- 700091 W.B.
Client	North Bihar Power Distribution Company Ltd Bailey Road, Patna-21 INDIA
Project	Development of Distribution Infrastructure at Begusarai Electric Supply Circle (Begusarai & Khagaria Dist) of Bihar under - Revamed Reforms- Based and Result-Linked Distribution Sector Scheme against NJT No.34/PR/NBPDCL/2022 invited through National competitive bidding.
NOA No	21 & 22 dtd 06.03.2023, Fill No NB/P-II/RDSS/Tender/25/2022.
1. Over All length of Pole	8 Mtrs ✓
2. Depth of Plantation	1.5 Mtrs. ✓
3. Minimum Ultimate Transverse Load :	500Kgs. ✓
4. Weight of Pole in Kgs.	380 Kgs. Approx ✓
5. Factor of Safety	2.5 ✓
6. Working Load Applied at 600MM	200Kgs. ✓
7. Volume of Pole in cube Meters	0.157 Cubic Meter ✓
8. Dimension of the Pole	
a. Top Dimension	90 X 145 MM ✓
b. Bottom Dimension	90 X 290 MM ✓
9. Actual Consumption/Quantity of	
Material used in Manufacture of each Pole	
A. Cement	80kgs. Approx. ✓
B. Sand	3.75CFT ✓
C. Stone Chips	5.35CFT ✓
D. H.T Steel Wire	
1. Dia of wire	4 mm/12 Nos. Full & 4 MM/2 Nos. Half ✓
2. No. of Wire	12Nos. Tensioned & 2 Nos. Untensioned ✓
3. Weight of Wire	11 Kgs. Approx. ✓
E. Other M.S Reinforcement	
1. H.T Wire Rings	4 MMH.T Wire of 12 Nos. ✓
2. Weight of steel	0.5Kgs. ✓
3. H.T Wire Hooks	2Nos. ✓
10. Earthing Arrangement in each PSC Pole :	
a. Length of G.I Wire & SWG	7.5 Mtrs 8 SWG ✓
b. Weight of G.I Wire	700Gms. ✓
11. Method of Pre-Stressing	By Tensioning of H.T Wires through Winch Machine ✓
12. Concrete mix & cube strength	
a. After 72 Hours	210Kgs/cum sq. ✓
b. After 28 Days	420Kgs/cumsq. ✓
13. Ultimate tensile strength of pre-stress wire	17500 Kg/Sq. Cm ✓
14. Engraving Marking	NBPDCL/SBPDCL, Makers Sr No., Manufacturer's Name Month/Year of Manufacture, Project Name-RDSS ✓

* Pole has to be painted in maroon colour from top up to 3 ft. (IS-5/2007) for all four faces of the pole.

FOR :- ACE INFRA & Security Pvt. Ltd.
AUTHORIZED SIGNATORY

* Applicable IS :-

- 1) IS: 269/1976
- 2) IS: 383 - Stone chips
- 3) IS: 1785/1983 - Steel wire
- 4) IS: 8041 - Cement
- 5) IS: 1678/2000 - pole
- 6) IS: 456/2000 - Concrete mix

CHECKED
[Signature]
AEE(P-II) EEE(P-II) ESE(P-II)

FOR ACE INFRA & SECURITY PVT. LTD.

[Signature]

APPROVED

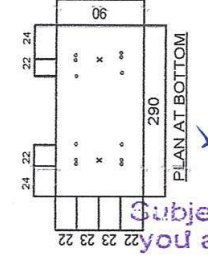
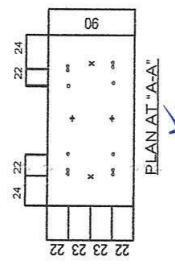
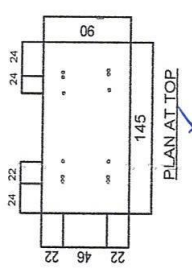
Subject to the condition that you are not absolved of the responsibility of Correctness of materials

[Signature]
Chief Engineer (Project-II)
NBPDCL

Sl. No.	DESCRIPTION	Quantity
1	No. Tensioned Wires (4mm)	12 Nos ✓
2	No. Untensioned Wires (4mm)	2 Nos ✓
3	Concrete Grade	M-40 ✓
4	Overall Length Support	8.0 MTR ✓
5	Planting Depth	1.5 M ✓
6	Dia of Pre-Stressed Wire	4 MM ✓
7	Clear Cover	20 mm ✓
8	Factor Safety	2.5 ✓
9	Working Load	200 KGS ✓
1C	Ultimate Tensile Strength - Prestressing Wire	17500 KGS/Sq. Cm ✓
11	G.I Earth Wire BSWG	1 No. ✓

NOTES:

- 1> All dimensions are in MM unless otherwise mentioned
- 2> Manufacturing tolerance (IS:1202)
 Upto 50mm : +/-5%
 51 to 100mm : +/-4%
 101 to 100mm : +/-3%
 Above 300mm : +/-2%
- 3> The poles shall be embossed anywhere above 1.5Mtr from bottom with RDSS
- 4> Poles with any 2 edges rounded will also be acceptable.
- 5> Position of hooks is only indicative, any other position shall also be acceptable.



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

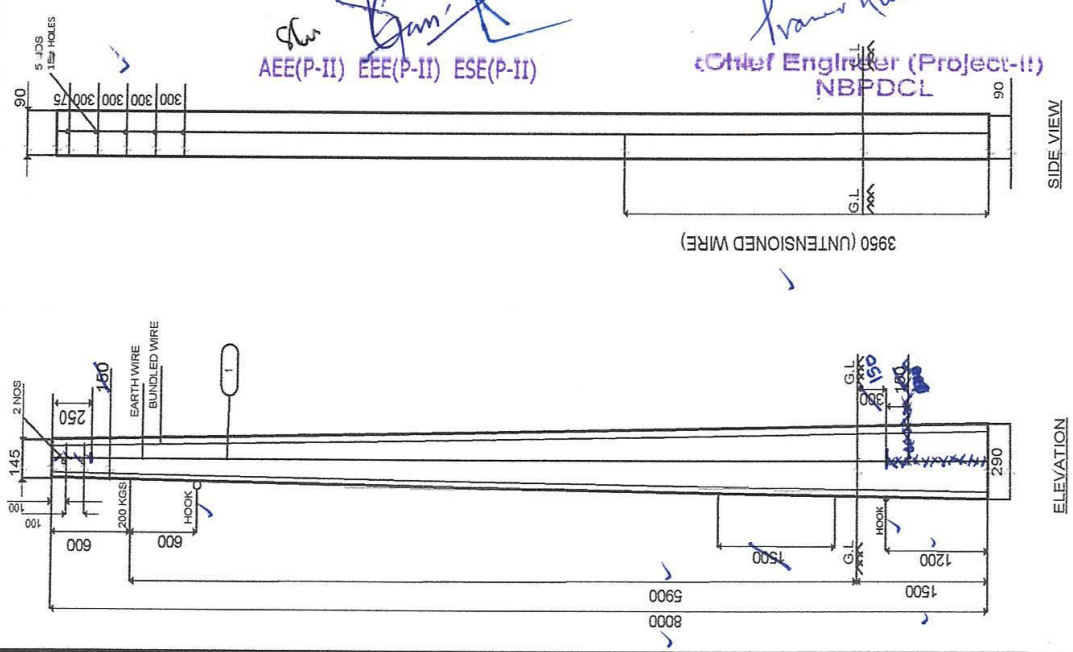
APPROVED

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

CHECKED

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

Chief Engineer (Project-II)
 NBPDC



CLIENT	NORTH BIHAR POWER DISTRIBUTION COMPANY LTD.
CONTRACTOR	M/S TECHNO POWER ENTERPRISES (P) LTD
PROJECT	Development of Distributor Infrastructure at Begusarai - Electric Supply Circle (Begusarai and Khagaria Districts) of Bihar under - Revamped Reforms-Based and Results-Linked Distribution Sector Scheme against NIT No. 34/PR/NBPDC/2022 invited through National Competitive Bidding
LOA	21 & 22 dtd 06.03.2023, Fill No NBP-II/RDSS/Tender/25/2022.
TITLE	8 Mtr.
MANUFACTURER	ACE INFRA & SECURITY PVT. LTD

For ACE INFRA & SECURITY PVT. LTD.
 Director

GURANTEE TECHNICAL PARTICULARS OF 9 MTRS LONG 300Kgs. W/L. PSC POLES	
Manufacturer	ACE INFRA & SECURITY Pvt. Ltd Mahendra Road, Faridpur, Fulwari sharif, Patna-13
Contractor	M/S TECHNO POWER ENTERPRISES (P) LTD, Infinity Think Tank Tower-II, 10th Floor, Plot-A3, Block-GP, Sect-V, Salt Lake City, Kolkata-700091 W.B.
Client	North Bihar Power Distribution Company Ltd Bailey Road, Patna-21 INDIA
Project	Development of Distribution Infrastructure at Begusarai Electric Supply Circle (Begusarai & Khagaria Dist) of Bihar under - Revamed Reforms-Based and Result-Linked Distribution Sector Scheme against NIT No.34/PR/NBPDCL/2022 invited through National competitive bidding.
NOA No	21 & 22 dtd 06.03.2023, Fill No NB/P-II/RDSS/Tender/25/2022.
1. Type Of Pole	Pre Stress Concrete
2. Factor of Safety	2.5
3. Overall Length of Pole (Meter)	9
4. Working Load	300 kg
5. Point of Application of Load	600 mm below from top
6. Depth of Plantation	1500 mm
7. Overall Dimensions	
1.) Bottom Depth	355 mm
2.) top Depth	185 mm
3.) Breadth	100 mm
8. Reinforcement Details	
1.) Diameter of Pre Stressing Wire	4 mm
2.) No. of Tensioned Wires	20 Nos
3.) No. of Untensioned Wire	0 Nos
4.) Length of each pre stressing wire	9 Mtr
5.) Ultimate Tensile Strength	17500 kg/cm sq
6.) Steel Quantity	22 kg/pole
9. Concrete Detail	
1.) Cement Type	Ordinary Portland Cement -43 Grade
2.) Concrete mix strength	210 kg/cm ² at time of transfer of prestress (min) 420 kg/cm ² at age of 28 days (min)
3.) Concrete Quantity	0.243 cubic meter/per
4.) Concrete covering to Wires	20 mm
10. GI earthing wire	6 SWG
11. Length of GI Earth Wire	7.8 Mtr
12. Weight of PSC Pole	607 Kg
13. 18 MM holes At a Distance of from top	100,200,1000
14. Engraving Marking	NBPDCL/SBPPCL, Makers Sr No., Manufacturer's Name Month/Year of Manufacture, Project Name-RDSS-LR, Developed under RDSS
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	+ a) ±15mm on overall length of pole
	+ ±5mm on sectional dimension
	0.5% on the uprightness of pole

★ Pole painting for identification - Three feet from top shall be painted with Maroon colour as per IS-5/9007/541

FOR:- ACE INFRA & Security Pvt. Ltd.
AUTHORIZED SIGNATORY

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

APPROVED
Subject to the condition that you are not absolved of the responsibility of Correctness of materials
Chief Engineer (Project-II)
NBPDCL

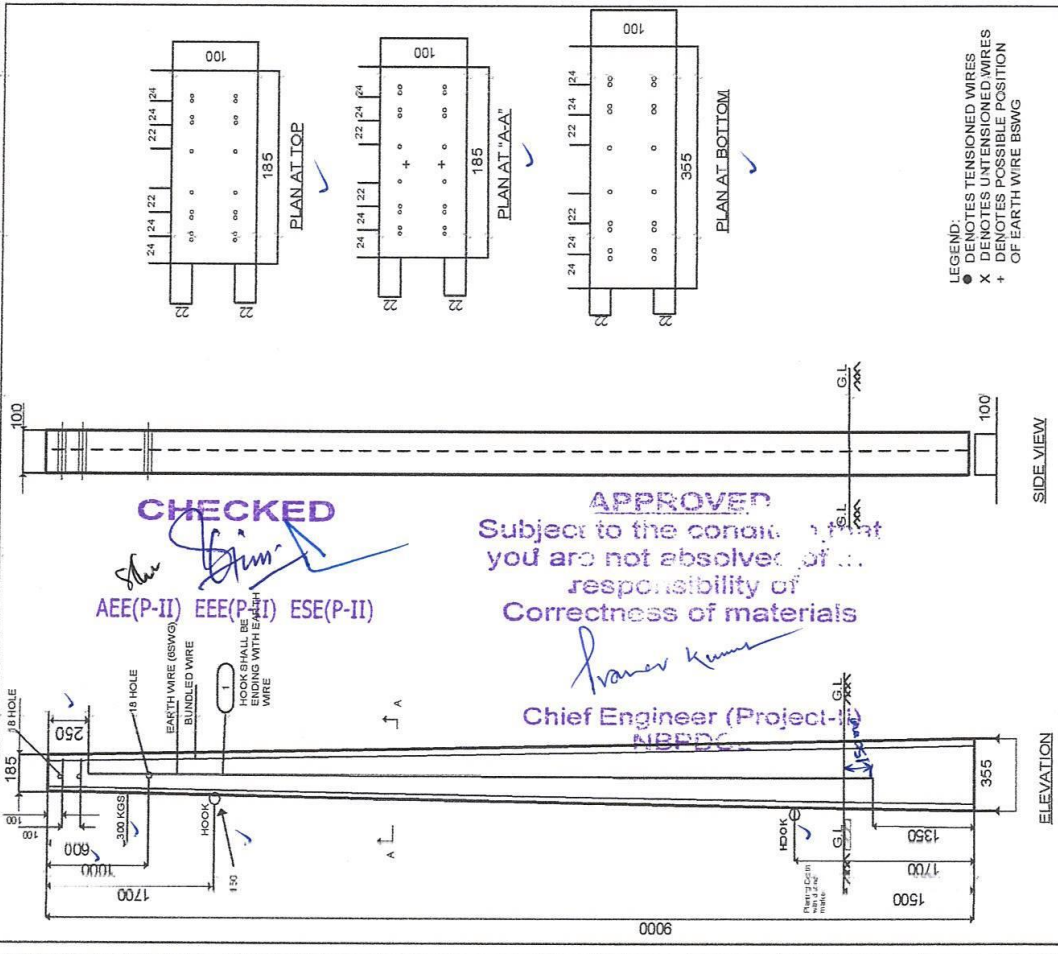
For ACE INFRA & SECURITY PVT. LTD.
Director

Sl. No.	DESCRIPTION	Quantity
1	No. Tensioned Wires (4mtr)	20 Nos
2	No. Un-Tensioned Wires (4mm)	0 Nos
3	Concrete Grade	M-40
4	Overall Length Support	9.0 MTR
5	Planting Depth	1.5 M
6	Dia of Pre-Stressed Wire	4MM
7	Clear Cover	22 mm
8	Factor Safety	2.5
9	Working Load	300 KGS
10	Ultimate Tensile Strength-Prestressing Wire	17500 KGS/sq. Cm
11	G.I Earth Wire 8SWG	1 Nos

NOTES:

- 1-> All dimensions are in MM unless otherwise mentioned
- 2-> Manufacturing tolerance : ±1/202
 Upto 50mm : ±-5%
 51 to 100mm : ±-4%
 101 to 100mm : ±-3%
 Above 300mm : ±-2%
- 3-> Poles shall be embossed anywhere above 1.5Mtr from bottom with RESS
- 4-> Poles with any 2 edges rounded will also be acceptable.
- 5-> Position of locks is only indicative, any other position shall also be acceptable.

CLIENT	NORTH BIHAR POWER DISTRIBUTION COMPANY LTD.
CONTRACTOR	M/S TECHNO POWER ENTERPRISES (P) LTD
PROJECT	Development of Distribution Infrastructure at Begusarai Electric Supply Circle (Begusarai and Khatagadia Districts) of Bihar under - Revamped Reforms-Based and Results-Linked Distribution Sector Scheme against IIT No. 34/PR/NBPD/CL/2022 invited through National Competitiveness Bidding
LOA	21 & 22 dtd 05.03.2023. File No NE/P-H/R/355/Tender/25/2022.
TITLE	9 Mtr.
MANUFACTURER	ACE INFRA & SECURITY PVT. LTD



FOR ACE INFRA & SECURITY PVT. LTD.
[Signature]
 Director