



North Bihar Power Distribution Company Limited

Regd. Office-Vidyut Bhawan, Bailey Road, Patna.

CIN No:U40109BR2012SGC018920

(Department of Project II)

Letter No--167-----/

NB/P-II/Kishan/RDSS/ Vaishno Associates/45/2023

dated 15/06/2023-----/

Contact No – 09264437179

Email – cerdssnbpdc12@gmail.com

From,

Pranav Kumar
Chief Engineer (Project-II)

To,

M/s Vaishno Associates Vidyut Projects LLP,
H.O-14-15,3rd Floor, Gajraj Tower,
Motilal Atal Road, Jaipur-302001,

Email – vaishno-elect@rediffmail.com, rohitkr.elect@gmail.com, vaishno.rdsskishanganj@gmail.com

Sub: - Regarding approval of GTP & Drawing of 8 Mtr. 200 Kg PSC Pole & 9 Mtr. 300 Kg PSC Pole against NIT No.-35/PR/NBPDCL/2022 for Kishanganj Circle.

- Ref :-**
- 1) NIT No.-35/PR/NBPDCL/2022
 - 2) NOA No.-23 & 24 dated 06.03.2023
 - 3) Your Lt. No.- VAVP/NBPDCL/RDSS/KISH/2023-24/40 dated 09.06.2023

Sir

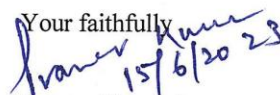
With reference to the subject noted above, please find enclosed herewith the GTP & drawing of 8 Mtr. 200 Kg PSC Pole & 9 Mtr. 300 Kg PSC Pole for Development of Distribution Infrastructure against NIT No.-35/PR/NBPDCL/2022 for Kishanganj Circle under Revamped Reforms-Based And Results-Linked, Distribution Sector scheme.

Sl. No.	Name of Firm and address	Name of Material/Equipment
1.	M/s Bagnnn Estates Private Limited. Registered Office- 16 Strand Road, Diamond heritage, Room no-916, Kolkata-700001. Manufacturing Unit- 8 PO, Indarwa, Dairy Lano, Kodorma, Jharkhand, 825410.	a) 8 Mtr. 200 Kg PSC Poles b) 9 Mtr. 300 Kg PSC Poles

The Correction wherever required in GTP/Drawing submitted by the manufacturer has been done. However, these drawing 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 specification as well as supply of material according to the technical specification of the contract agreement shall be responsibility of the contractor.

In case of any conflict or contradiction between GTP/ Drawings & Technical Specification, 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.

Please carry out the works immediately under conditions stated above.

Your faithfully

 (Pranav Kumar)
 Chief Engineer (Project-II)

Memo no 167-----/

dated 15/06/2023

Copy forwarded M/s Vindhya Telclinks Limited, Club 125, 6th Floor, Tower A, Plot No- 3, 4 & 5, Sector 125, Noida, UP-201301/ M/s Ashoka Buildcon Ltd., S.No.-861, Ashoka House, Ashoka Marg, Vadala, Nashik-422011/M/s Polycab India Ltd., Polycab House, 771, Pandit Satwalekar Marg, Mumbai / M/s NCC Ltd., NCC House, Survey no. 64, Madhapur, Hyderabad, 500081 / M/s JSP Projects Pvt. Ltd., Flat No.-5, IInd Floor, IIIrd B-2, Nehru Nagar, Ghaziabad (UP)-201001 /M/s CABCON India Ltd., 1st Floor, The Terminus Building, BG-12, Action Area- 1 B, New Town, Kolkata-700156 / M/s Techno Power Enterprises Pvt., 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.

Pranav Kumar
15/6/2023

(Pranav Kumar)

Chief Engineer (Project-II)

dated 15/06/2023-----/

Memo no 167-----/

Copy forwarded to Chief Engineer, Project-I (Urban), NBPDCI for information and further needful action.

Pranav Kumar
15/6/2023

(Pranav Kumar)

Chief Engineer (Project-II)

dated 15/06/2023-----/

Memo no 167-----/

Copy forwarded to M/s Rodic Consultant, Hq team for information and further needful.

Pranav Kumar
15/6/2023

(Pranav Kumar)

Chief Engineer (Project-II)

dated 15/06/2023-----/

Memo no 167-----/


Copy forwarded to OSD to MD/ Director (Project), NBPDCI for kind information

Pranav Kumar
15/6/2023

(Pranav Kumar)

Chief Engineer (Project-II)

Guaranteed Technical Particulars for Pre-Stressed Cement Concrete (PSC) Poles

Project	RDSS Works at Kishanganj Electric supply Circle
Contractor	M/s Vaishno Associates Vidyut Projects LLP, Jaipur
Owner	 NORTH BIHAR POWER DISTRIBUTION CO. LTD (NBPDCCL)
LOA No.	NBP-II/RDSS/Tender /25/2022 NOA No 23 & 24 Dated 06.03.2023
Name of the Item	9m 300kg PSC Pole (100mm width)
Name & Address of the Manufacturer	BAGNAN ESTATES PVT LTD 8 PO INDERWA, KODERMA DAIRY LANE KODERMA 825410, JHARKHAND

Guaranteed Technical Particulars of 9 Mtr 300 Kg PSC Pole			
Sl NO.	DESCRIPTION	UNIT	PARTICULARS
1	Type of Pole		Pre-Stress Concrete
2	Factory of Safety		2.5
3	Overall Length of Pole (Meter)	MTR	9
4	Working Load	Kg	300
5	Point of Application of Load		600 mm below from top
6	Depth of Plantation	Mm	1500
7	Overall Dimensions		
i)	Bottom Depth	Mm	355
ii)	Top Depth	Mm	185
	Breadth	Mm	100
8	Reinforcement Details		
i)	Diameter of Pre Stressing Wire	Mm	4
ii)	No. of Tensioned Wires	Nos.	20
iii)	No. of Untensioned Wire	Nos.	0
iv)	Length of each pre stressing wire	Mtr.	9
v)	Ultimate Tensile Strength	Kg/cm2	17500
vi)	Steel Quantity	Kg/pole	22
9	Concrete Detail		
i)	Cement Type		Ordinary Portland Cement-43 Grade
ii)	Concrete mix strength	Kg/cm2	210 kg/cm2 at time of transfer of prestress (min)
		Kg/cm2	420 kg/cm2 at age of 28 days (min)
iii)	Concrete Quantity	Cubic meter / pole	0.243 m3
iv)	Concrete covering to wires	Mm	20



BAGNAN ESTATES PVT. LTD.
Shakti Moh
Director.


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[Signatures]
JEE(RSS) 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

[Signature]
Chief Engineer (Project-II)
NBPDCCL

Guaranteed Technical Particulars for Pre-Stressed Cement Concrete (PSC) Poles

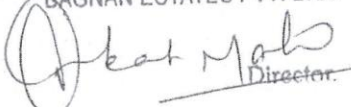
Project	RDSS Works at Kishanganj Electric supply Circle
Contractor	M/s Vaishno Associates Vidyut Projects LLP, Jaipur
Owner	 NORTH BIHAR POWER DISTRIBUTION CO. LTD (NBPDCCL)
LOA No.	NB/P-II/RDSS/Tender /25/2022 NOA No 23 & 24 Dated 06.03.2023
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Name & Address of the Manufacturer	BAGNAN ESTATES PVT LTD 8 PO INDERWA, KODERMA DAIRY LANE KODERMA 825410, JHARKHAND

10	GI earthing wire	SWG	6
11	Length of GI Earth wire	Mtr	7.8
12	Weight of PSC Pole	Kg	607
13	18 MM holes at a distance of from top	Mm	100,200,1000
14	Engraving Marking		NBPDCL/ RECS , Makers Sr. No., Manufacturers' name month/year of Manufacture, coloured
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) + 15 mm on overall length of pole
			+ 5 mm on sectional dimension
			0.5% on the uprightness of pole


* Developed under RDSS-LR
indelible clepth mark at 1.5 mtr from botto to verify the planting depth.

Note - Top 3 feet of pole to be painted with IS 5-9 shade 541 in all four faces



BAGNAN ESTATES PVT. LTD.

Director.



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

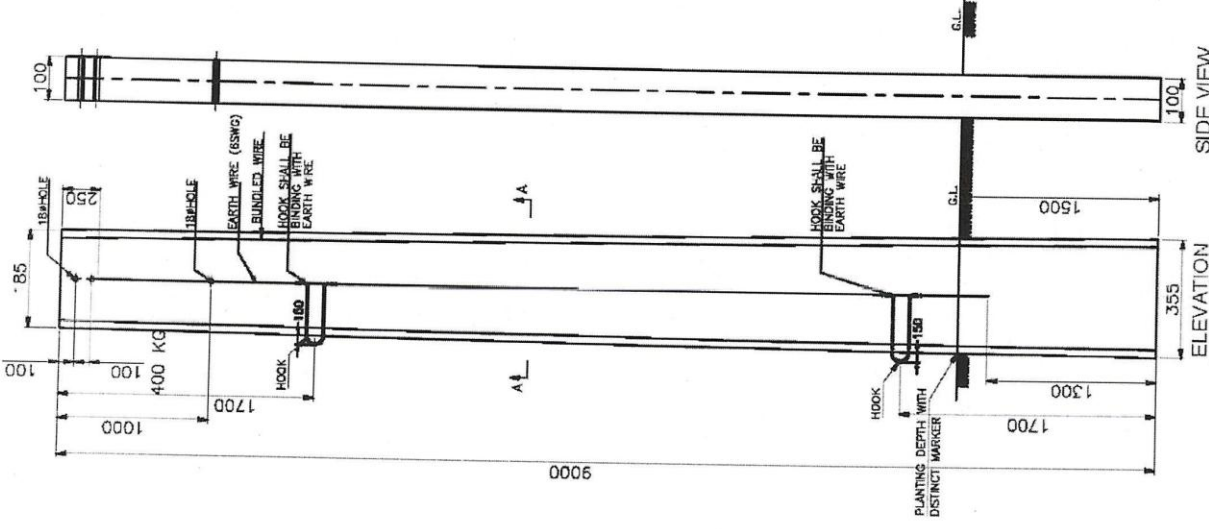
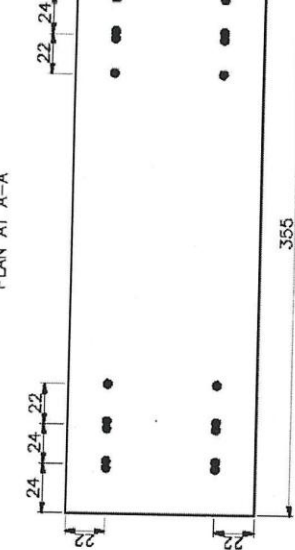
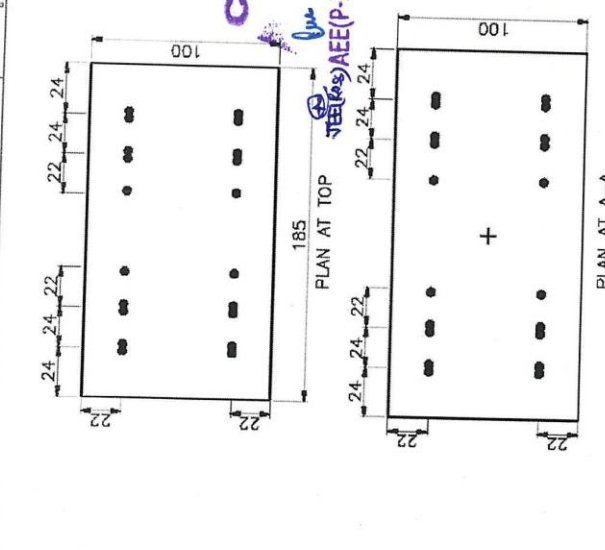
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Chief Engineer (Project-II)
NBPDCCL

S. NO.	DESCRIPTION	QUANTITY
1	NO OF TENSIONED WIRES (4mm)	20 Nos.
3	CONCRETE GRADE	M-40
4	OVERALL LENGTH SUPPORT	9.0MTR
5	PLANTING DEPTH	1500MM
6	DIA OF PRESTRESSING WIRE	4MM
7	CLEAR COVER	22MM
8	FACTOR OF SAFETY	2.5
9	WORKING LOAD	300 Kgs
10	ULTIMATE TENSILE STRENGTH OF PRESTRESSING WIRE	7500KG/CM ²
11	G.I. Earth wire 6 SWG	1No.

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for Approval
EEE(P-II) ESE(P-II)



LESEND:

- DENOTES TENSIONED WIRES
- + DENOTES POSSIBLE POSITION OF EARTH WIRE

NOTES:

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- 2) POLE WITH ANY TWO EDGES ROUNDED SHALL ALSO BE ACCEPTABLE.
- 3) TOLERANCE FOR UPRIGHTNESS SHALL BE 0.5%



CONTRACTOR

M/s Vaishno Associates Vidvut Projects LLP, Jaipur



NORTH BIHAR POWER DISTRIBUTION COMPANY LIMITED

PROJECT:

RDSS Works at Kishanganj Electric supply Circle

MANUFACTURER: BAGNAN ESTATES PVT.LTD. KODERMA

LOA No: NB/P-I/RDSS/Tender/25/2022.NOA.No.23 & 24 Dated 06.03.2023

TITLE: GA OF 9.0 MTR/300KG. PSC POLE (100MM WIDTH POLE)

DATE	SCALE	DRG. NO.	REV. NO.
30.09.22	NTS		0
	SIZE		SHT. NO.
	A3		1 OF 1
			PSC-300KG-GEN-002

APPROVED


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

for Approval

Chief Engineer (Project-II)
NBPDCL

REV. NO.	DATE	FOR APPROVAL	DESCRIPTION	CHECKED BY	DATE	REMARKS

Guaranteed Technical Particulars for Pre-Stressed Cement Concrete (PSC) Poles

Project	RDSS Works at Kishanganj Electric supply Circle
Contractor	M/s Vaishno Associates Vidyut Projects LLP, Jaipur
Owner	 NORTH BIHAR POWER DISTRIBUTION CO. LTD (NBPDCCL)
LOA No.	NB/P-II/RDSS/Tender /25/2022 NOA No 23 & 24 Dated 06.03.2023
Name of the Item	8MTR LONG 200KG PSC POLE
Name & Address of the Manufacturer	BAGNAN ESTATES PVT LTD 8 PO INDERWA, KODERMA DAIRY LANE KODERMA 825410, JHARKHAND

Technical Particulars

S. No.	Particulars	Unit	Particulars
1.	Overall length of Pole	m	8
2.	Depth of planting	m	1.5
3.	Applicable Standard	-	As per IS:1678-1998
4.	Minimum Ultimate Transverse load	Kg	500
5.	Weight of Pole	Kg	380 (min.)
6.	Factor of Safety	-	2.5
7.	Working Load Applied at 600 mm from top	Kg	200
8.	Volume of Pole in Cubic Meter	cu m	0.157
9.	Dimension of the pole :		
a.	Top dimension	mm	90 x 145
b.	Bottom dimension	mm	90 x 290
10.	Actual consumption/Quantity of material used in manufacturer of each pole :		
a.	Cement (OPC IS:269-1976)	Kg	85 *
b.	Sand	CFT	As per relevant IS
c.	Stone Chips (IS:385)	CFT	As per relevant IS
e.	HT Wire :		
i.	Dia of Wire	mm	4
ii.	No of Wire	nos	12
iii.	Weight of Wire	Kg	11.5
iv.	Standard	-	IS:1785-1983





d. Aggregate - As per IS-383-1970 and nominal maximum size of Aggregate shall not exceed 12mm.



* Cement - IS 269-1976 (Specification for ordinary & low heat portland Cement) or IS: 8041 E-1978 (Specification for rapid hardening portland cement)




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

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 Chief Engineer (Project-II)
 NBPDCCL

Guaranteed Technical Particulars for Pre-Stressed Cement Concrete (PSC) Poles

Project	RDSS Works at Kishanganj Electric supply Circle
Contractor	M/s Vaishno Associates Vidyut Projects LLP , Jaipur
Owner	 NORTH BIHAR POWER DISTRIBUTION CO. LTD (NBPDCI)
LOA No.	NB/P-II/RDSS/Tender /25/2022 NOA No 23 & 24 Dated 06.03.2023
Name of the Item	8MTR LONG 200KG PSC POLE
Name & Address of the Manufacturer	BAGNAN ESTATES PVT LTD 8 PO INDERWA, KODERMA DAIRY LANE KODERMA 825410, JHARKHAND

Technical Particulars			
S. No.	Particulars	Unit	Particulars
f.	Other M.S Reinforcement		
i.	Non tension wire	Nos.	2
ii.	H.T wire rings	Nos.	4mm HTwires of 12 Nos.
iii.	H.T wire Hooks (4mm Rod Hook)	nos	2
11.	Earthing Arrangement in each PSC pole		
a.	Length of GI Wire & SWG	mm	7.25 (8 SWG)
b.	Weight of GI Wire	gm	892
12.	Method of Pre-stressing	-	By tensioning of wire through winch hydraulic tensioning machine
13.	Concrete mix & cube strength		
a.	After 72 hours	Kgs./cm ²	210
b.	After 28 days	Kgs./cm ²	420
14.	Concrete Grade		M-40
15.	Ultimate Tensile Strength of pre-stressing wire	Kgs/sq.cm	17500
16.	Pole Marking / Engraving		NBPDCI, RDSS Developed under RDSS-LR Date, Month & Year of Manufacturer Maker's Sl. No. & Mark

N.B.1 OTHER PARAMETERS AS PER TECHNICAL SPECIFICATION

Note- Top 3 feet of pole to be painted with IS5-shade 541 in all four faces.

Coloured indelible depth marker at 1.5mtr from bottom to verify the planting depth

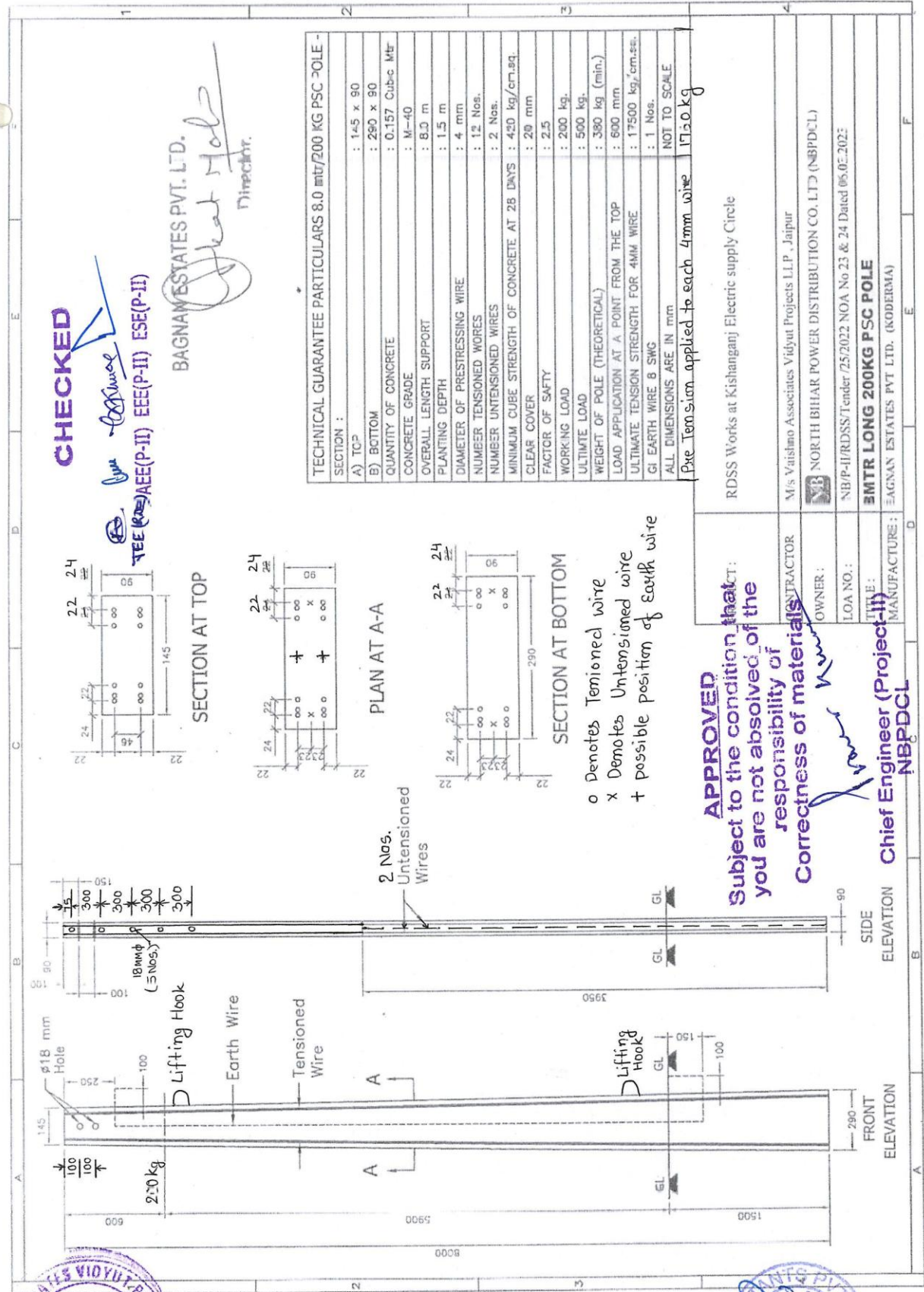


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[Signature]
JEE(RDSS) AEE(P-II) EEE(P-II) ESE(P-II)

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[Signature]
Chief Engineer (Project-II)
NBPDCI



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Signature
TEE (P-I) AEE (P-II) EEE (P-II) ESE (P-II)

BAGNAM ESTATES PVT. LTD.

Signature
Director

TECHNICAL GUARANTEE PARTICULARS 8.0 mtr/200 KG PSC POLE -

SECTION :	
A) TOP :	145 x 90
B) BOTTOM :	290 x 90
QUANTITY OF CONCRETE :	0.157 Cubic Met
CONCRETE GRADE :	M-40
OVERALL LENGTH SUPPORT :	8.3 m
PLANTING DEPTH :	1.5 m
DIAMETER OF PRESTRESSING WIRE :	4 mm
NUMBER TENSIONED WIRES :	12 Nos.
NUMBER UNTENSIONED WIRES :	2 Nos.
MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS :	420 kg/cm.sq
CLEAR COVER :	20 mm
FACTOR OF SAFETY :	2.5
WORKING LOAD :	200 kg.
ULTIMATE LOAD :	500 kg.
WEIGHT OF POLE (THEORETICAL) :	380 kg (min.)
LOAD APPLICATION AT A POINT FROM THE TOP :	600 mmm
ULTIMATE TENSION STRENGTH FOR 4MM WIRE :	17500 kg/cm.sq.
GI EARTH WIRE B SWG :	1 Nos.
ALL DIMENSIONS ARE IN mm	NOT TO SCALE
Psc Tension applied to each 4mm wire	1750.0 kg

SECTION AT BOTTOM

- o Denotes Tensioned wire
- x Denotes Untensioned wire
- + possible position of earth wire

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 correctness of materials

Chief Engineer (Project-II)
 NBPDCCL

RDSS Works at Kishanganj Electric supply Circle

M/s Vaishano Associates Vidyut Projects LLP, Jaipur

NBPDCCL NORTH BIHAR POWER DISTRIBUTION CO. LTD (NBPDCCL)

NB/P-II/RDSS/Tender/25/2022 NOA No 23 & 24 Dated 05.05.2022

3MTR LONG 200KG PSC POLE

MANUFACTURE: BAGNAM ESTATES PVT LTD. (KODERMA)

