



NORTH BIHAR POWER DISTRIBUTION CO. LTD.

[Office of Chief Engineer, Project-I/Urban]
(Regd. Office: Vidhut Bhawan, Bailey Road, Patna)
CIN No: U40109BR2012SGC018920

Letter No: 915
[File No:-N-XIII/RDSS/V.A./Chapra Circle-3084/2023-
Dated: 01-08-23

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@nccltd.in

Sub:-

Regarding approval of GTP & Drawing of GI Wire 8 SWG, GI Wire 7/16 SWG, GI Stay Wire 7/10, GI Barbed Wire, Coil Earth of make M/s R.K. Wire Products Ltd., Kolkata for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme."

Ref:-

**(i) NOA No.-244 & 245 dated 06.03.2023
(ii) Your letter no.-101 dated 30.06.2023**

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	GI Wire 8 SWG	M/s R.K. Wire Products Ltd., Unit No.-1507, Tower-I, Plot-G2, Block-EP & GP, Sector-V, Salt Lake, Kolkata-700091
2	GI Wire 7/16 SWG	
3	GI Stay Wire 7/10 SWG	
4	GI Barbed Wire (2.50 mm X 2.50 mm)	
5	Coil Earth	

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.- 915

Dated- 01-08-23

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 Polycab India Ltd., Polycab House, 771, Pandit Satwalekar Marg, Mumbai/M/s Ashoka Buildcon Ltd., S.No.-861, Ashoka House, Ashoka Marg, Vadala, Nashik-422011 for information and necessary action.

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.- 915

Date- 01-08-23

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

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)



R.K.WIRE PRODUCTS LIMITED

Regd. Office: Unit-VII,15th Floor,Tower-1,PS Srijan Corporate Park, Plot No.G-2, Block-EP & GP, Sector-V, Salt Lake City Kolkata-700091,(West Bengal) India, Phone No.- 033-4602-2790/91/92/93/94, E-mail: info@rkwire.com

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Name of Project		Development of Distribution infrastructure at Chhapra Electric Supply Circle under Loss Reduction Component of RDSS-Scheme	
Name of TKC :		M/s NCC Ltd. NCC House,Survey No. 64, Madhapur, Hyderabad-500081	
NOA No.		244 & 245 dated 06.03.2023	
Name of DISCOM		North Bihar Power Distribution Company Ltd.	
Name of Manufacturer		M/s R.K. Wire Products Ltd.	
Address of Manufacturer		Office : Unit No. - 1507, Tower -1 Plot G2, Block-EP & GP Sector - V, Salt Lake, Kolkata-700091	
Guaranteed Technical Particulars			
G.I. Wire 4.00 mm, (8 SWG) diameter			
S.No.	Description	unit	Guaranteed Particulars
1	a) Diameter of wire	mm	4.00
	b) Tolerance of diameter	mm	2.5%,3.90 mm to 4 .10 mm
2	Sectional Area	mm ²	12.56 (Nominal)
3	Tenstle Properties		
	a) Condition		Soft Galvanized
	b) Tenstle Strength	N/mm ²	300 -550
4	a) Wrapping		Wire shall not break or split when wrapped for 1D x8 Turns and being subsequently unwrapped for seven turns
	b) Adhesion Test		The zinc coating Shall remain adherent to the steel wires, it shall not flake off nor crack to such extent that there is possibility of removing any zinc by rubbing with bare fingers when wound around a 6D x 10 turns.
5	zinc Coating		
	a) Type of zinc coating		Heavy
	b) Weight of Coating	gm/m ²	280 (minimum)
	c) Number of Dips	%	3x1 min 1x½ min
6	Chemical Composition		
	a) Carbon	%	0.23 Max
	b) Sulphur	%	0.055 Max
	c) Phosphorus	%	0.055 Max
7	Weight of each coil	kg	50-100
8	Standard according to which the wires are manufactured and tested		Is 280-2006 Is 4826-1979
9	Details of Packing		Each coil of wire shall be suitably bound & Fastened Compactly
10	Weight per kilometer of G.I. Wire	kg/km	98.6 (nominal)

APPROVED

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

Checked

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CE (Project-1). Urban



Works Unit-1: Village: Panchghara, Durgapur Expressway, PO: Panchghara Bazar, P.S. Chanditala, Dist : Hooghly, (W.B.), Pin-712306, Phone : 03212-223431, 98311-01127

Works Unit-2: Village : Kedarnagar, Chinsurah-Dhaniakhali Road, P.O. : Paunan, P.S. : Polba, Dist : Hooghly, (W.B.), Pin-712305

Website : www.rkwire.com, CIN:L17233WB1983PLC036948



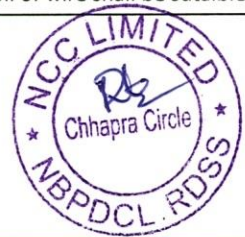


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NOA No.		244 & 245 dated 06.03.2023	
Name of DISCOM		North Bihar Power Distribution Company Ltd.	
Name of Manufacturer		M/s R.K. Wire Products Ltd.	
Address of Manufacturer		Office : Unit No. - 1507, Tower -1 Plot G2, Block-EP & GP Sector - V, Salt Lake, Kolkata-700091	
Guaranted Techninacal Particulars			
G.I. Stay Wire 7/3.15 mm. (7/10 SWG) diameter			
S.No.	Description	unit	Guaranteed Particulars
G.I Stay Wire before Stranding			
1	a) Diameter of wire	mm	3.15
	b) Tolerance	mm	+0.06, -0.03
2	Breaking Load	KN	5.46 (Min)
3	Weight of Zinc Coating	gm./m ²	240 (Min)
4	Dip Test	Number	3x1 Min
5	Wrapping		Wire shall not break or split when wrapped for eight close turns around its own diameter and on being subsequently unwrapped for seven turns
6	Adhesion Test		The zinc coating Shall remain adherent to the steel wires, it shall not flake off nor crack to such extent that there is possibility of removing any zinc by rubbing with bare fingers when wound around a 4D x 10 turns.
G.I. Stay Wire after Stranding			
7	Lay Length	mm	113.4 (Min)
8	Overall Diameter	mm	170.1 (Max)
9	Breaking Load	KN	34 (Min)
10	Elongation	%	6 (Min) (Gauge Length = 600 mm)
Individual wire after Stranding			
11	a) Diameter of wire	mm	3.12-3.21
	b) Weight of zinc coating	gm./m ²	228 (Min)
	c) Dip Test	Number	2x1 min
			1x½ min
12	Tensile strength	N/mm ²	700 (min)
13	Coil Weight	kg	75-100
14	Weight Per kilometer of G.I. stay Wire	kg/km	428 (Nominal)
15	Sectional area of standed wire	mm ²	54.52
16	Chemical Composition		
	a) Sulphur	%	0.060 (Max)
	b) Phosphorus	%	0.060 (Max)
17	Standard according to which the wires are manufactured and tested		IS 2141-2000 IS 4826-1979
18	Details of Packing		Each Coil of wire shall be suitable bound & Fastened compactly

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 CE (Project-1), Urban
 NBPDC

Works Unit-1: Village: Panchghara, Durgapur Expressway, PO: Panchghara Bazar, P.S. Chanditala, Dist : Hooghly, (W.B.), Pin-712306, Phone : 03212-223431, 98311-01127

Works Unit-2: Village : Kedarnagar, Chinsurah-Dhaniakhali Road, P.O. : Paunan, P.S. : Polba, Dist : Hooghly, (W.B.), Pin-712305

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NOA No.		244 & 245 dated 06.03.2023	
Name of DISCOM		North Bihar Power Distribution Company Ltd.	
Name of Manufacturer		M/s R.K. Wire Products Ltd.	
Address of Manufacturer		Office : Unit No. - 1507, Tower -1 Plot G2, Block-EP & GP Sector - V, Salt Lake, Kolkata-700091	
Guaranteed Technical Particulars			
G.I. Wire 7/16 SWG			
S.No	Description	Unit	Guaranteed Particulars
G.I. Stay Wire before			
1	a) Diametere of Wire	mm	1.60
	b) Tolerance	mm	+ 0.04, -0.03
2	Breaking Load	KN	1.41 (Minimum)
3	Weight of Zing Coating	qm./m ²	190 (Minimum)
4	Dip Test	Number	2x1 Min
5	Wrapping Test		Wire shall not break or split when wrapped for eight close turns around its own diameter and on being subsequently unwrapped for seven turns
6	Adhension Test		The Zinc coating shall remain aderent to the steel wires, it shall not flakes off nor crack to such extent that there is possibility of removing zinc rubbing with bare fingers when wound around a mandrel 4Dx10 turns
G.I. Stay Wire after Stranding			
7	Lay Length	mm	57.6 (min) 86.4 (max)
8	Overall Diameter	mm	4.80(Nominal)
9	Breaking Load	KN	8.80 (Min)
10	Elongation	%	6 (Min) (Gauge Length = 600 mm)
Individual Wire after Stranding			
12	a) Diametere	mm.	1.57 - 1.64
	b) Weight of zinc Coating	qm./m ²	180.5 (Min)
	c) Dip Test	Number	1 x 1 Min, 1 x ½ Min
	d) Adhension Test		The Zinc coating shall remain aderent to the steel wires, it shall not flakes off nor crack to such extent that there is possibility of removing zinc rubbing with bare fingers when wound around a mandrel 4Dx10 turns
13	Tensile Stength	N/mm ²	700 (Min)
14	Coil Weight	Kg	75 - 100
15	Weight Per Kilometre of G.I. Stay Wire	Kg./Km	110.5 (Nominal)
16	Sectional area of stranded wire	mm ²	14.08 (Nominal)
17	Chemical composition		
	a) Sulphur	%	0.060 (Max)
	b) Phosphours	%	0.060 (Max)
18	Satndard According to Which the wires are Manufactured and tested		IS 2141 - 2000,
19	Details of packing		Each coil of wire shall be suitably bound & fastened compactly

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Works Unit-1: Village: Panchghara, Durgapur Expressway, PO: Panchghara Bazar, P.S. Chanditala, Dist : Hooghly, (W.B.), Pin-712306, Phone : 03212-223431, 98311-0112

Works Unit-2: Village : Kedarnagar, Chinsurah-Dhaniakhali Road, P.O. : Paunan, P.S. : Polba, Dist : Hooghly, (W.B.), Pin-712305

Website : www.rkwire.com, CIN:L17233WB1983PLC036948





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NOA No.		244 & 245 dated 06.03.2023	
Name of DISCOM		North Bihar Power Distribution Company Ltd.	
Name of Manufacturer		M/s R.K. Wire Products Ltd.	
Address of Manufacturer		Office : Unit No. - 1507, Tower -1 Plot G2, Block-EP & GP Sector - V, Salt Lake, Kolkata-700091	
Guaranteed Technical Particulars			
G.I. Barbed Wire (2.50 mm X 2.50 mm)			
S.No.	Description	Unit	Guaranteed Particulars
G.I. Stay Wire Before Stranding			
1	a) Diameter of line Wire	mm	Line Wire-2.50
	Diameter of Point Wire		Point Wire-2.50
	b)on diameter Tolerance	mm	Each Wire of $\pm 2.50\%$, 2.42 mm to 2.58.mm
2	Barb Length	mm	13 -18
3	Distance Between two barbs	mm	75 \pm 12
4	Tensible Properties		
	a) Tensible Strenght Complete Barbed Wire	Mpa	390 - 590
	b) Tensible Strenght Complete Barbed Wire	KN	3.7 (Minimum)
5	Wrapping		Wire shall withstan without breaking or apitting being wrapped eight times round its own diameter and subsequently Straightened
6	No. of Lays Between two consecutive barbs	Nos	2-7
7	Zinc Coating		
	a) weight of coating	gm/m ²	110 (Minimum)
	b) Numbers of Dips		1x1 min, 1x $\frac{1}{2}$ Min
8	Chemical composition		
	a) Carbon	%	0.23 (Max)
	b) Sulphur	%	0.050 Max
	c) Phosphorus	%	0.050Max
9	Weight of each coil	kg	28-32
10	Standard according to which the wires are manufactured and tested		IS 278 : 2009 IS 482 : 1979 IS 7887 : 1992
11	Freedom from defects		The wire shall be free from any harmful surface defects
12	Mass of complete Barbed Wire	KG./km	136 - 155
13	Length per 100 kg		690 meter

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CE (Project-1), Urban NBPDC

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Name of Manufacturer	M/s R.K. Wire Products Ltd.
Address of Manufacturer	Office : Unit No. - 1507, Tower -1 Plot G2, Block-EP & GP Sector - V, Salt Lake, Kolkata-700091

S.No	Description	Unit	Guaranteed Value for Earthing Coil 4.00 mm Dia.
1	Standard Specification of Materials		As per IS : 2629/1996, 2633/1972 and 4826/1969 Earthing coil shall be fabricated from soft GI wire hot dip Galvanized
2	Particulars of Raw Materials :		
a	Material Description		MS Wire shall Conform to IS :280
b	Nominal Diameter of Earthing GI Wire	mm	4
c	Minimum No. of turns	Nos.	115
d	External Dia of Coil (Min.)	mm	50
e	Length of Coil	mm	460
f	Free Length of GI Wire at one end coil(Min.)	mm	2500
g	Weight of one finished Earthing Coils (Min.)	Kg	1.850 The turns Should be Closely Bound.
3.	Galvanisation		
a	Type		Heavy Coating
b	Minimum Mass of Zinc Coating on GI Wire Used (as Per IS :6745/1971)	gm/m ²	280
c	Minimum Mass of Zinc Coating on GI Wire after Coiling	gm/m ²	266
d	Dip Test : (As per IS : 4826/1979)		
	(i) Minimum number of Dips	Nos.	3 Nos. x1 min
	(ii) No. of Dips of 1/2 Min. before Coiling	Nos.	1Nos. X 1/2min
	(iii) No. of Dips of 1 Min. after Coiling	Nos.	43 Nos. x1 min
e	Adhesion Test		As per IS :4826/1979
4	Tolerance :		
a	Dia. Of GI Wire	%	± 2.5
b	All other Dimension		
	Up to 50mm	%	± 5
c	51 to 100 mm	%	± 4
d	101 to 300 mm	%	± 3
e	Above 300 mm	%	± 2

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