



NORTH BIHAR POWER DISTRIBUTION CO. LTD.

[Office of Chief Engineer, Project-II]
(Regd. Office: Vidyut Bhawan, Bailey Road, Patna)
CIN No: U40109BR2012SGC018920

Letter No: 175
[File No: NB/P-II/RDSS/V.Empanelment/Saharsa circle/48/2023]
Dated: 19/06/2023

Contact No: +91-9264437179

E-mail: cerdssnbpdc12@gmail.com

From,
Pranav Kumar
Chief Engineer (Project-II)

To,

M/s Vindhya Telelinks Ltd.
Club 125, 6th Floor, Tower A, Plot No -3,4&5
Sector 125, Noida, UP-201301

Sub: - Approval of GTP of SWG wire against NIT No: 32/PR/NBPDCL/2022 for Saharsa Circle.

- Ref:**
1. This Office NOA No: 17 & 18 dated 06.03.2023.
 2. Your Letter No- 19 dated- 08.06.2023
 3. Vendor Approval vide CE (Project-II) letter no. 151 Dated 09.06.2023 .

With reference to the subject noted above, please find enclosed herewith the GTP SWG wire for Development of Distribution Infrastructure against NIT No: 32/PR/NBPDCL/2022 for Saharsa Circle under Revamped Reforms-Based And Results-Linked, Distribution Sector Scheme.

Sl. No.	Name of Item	Vendor Name
1	7/3.15 mm GI Wire	M/s Kritika Wires Ltd. 1 A, Bone field Lane Kolkata - 700001
2	7/1.6 mm GI wire	
3	4 mm GI wire	
4	Barbed Wire (12 SWG)	


The Correction wherever required in GTP/ Drawing submitted by the manufacturer 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

Please carry out the works immediately under conditions stated above.

Encl.:- As above.

Yours faithfully


(Pranav Kumar)

19.6.2023
Chief Engineer (Project-II)

Memo no. 17.5/

dated...19/06/2023/

Copy forwarded M/s NCC Limited, Hyderabad/ M/s JSP Projects Ltd, UP / M/s Polycab Limited, Mumbai / M/s Ashoka Buildcon Limited, Nashik/ M/s Cabcon Limited, Kolkata/ M/s Techno Power Enterprises Private Limited, Kolkata/ M/s Vaishno Associates Vidyut Projects LLP, Jaipur for information.

Pranav Kumar
19.6.2023

(Pranav Kumar)

Chief Engineer (Project-II)

Memo No. 17.5/

dated...19/06/2023/

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

Pranav Kumar
19.6.2023

(Pranav Kumar)

Chief Engineer (Project-II)



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	CONTRACTOR	VINDHYA TELELINKS LIMITED
	PROJECT	Revamped Reforms-Based And Results-Linked Distribution Sector Scheme
	CLIENT	NORTH BIHAR POWER DISTRIBUTION CO. LTD
	NOA NO.	1. 246 dated 6th March 2023 for Supply against NIT No.28/PR/NBPDCL/2022 2. 17 dated 6th March 2023 for Supply against NIT No.32/PR/NBPDCL/2022
	MATERIAL DESCRIPTION	G.I. Stay Wire 7/16 SWG
	Manufacturer	Kritika Wires Limited

GUARANTEED TECHNICAL PARTICULARS

G.I. Stay Wire 7/1.60 mm.(7/16 SWG) diameter

Sl. No.	Description	Unit	Guaranteed Particulars
1.	Maker's Name & Address		Kritika Wires Limited 1A, Bonfield Lane, Kolkata-700001 Vill. : Bhagabatipur, P.O. : Chaturbhujkati, Sankrail, Howrah-711313.
	a) Office		
	b) Works		
2.	Name of manufacturer of:		TATA/RINL/SAIL/JINDA/ Others Binani Zinc/Hindustan Zinc Ltd/Others
	a) Steel Wire/Rod		
	b) Zinc		
	c) Complete G.I. Stay Wire		Kritika Wires Limited
G.I. Stay Wire before Stranding			
3.	a) Diameter of wire	mm.	1.60
	b) Tolerance	mm.	+0.06,-0.03
4.	Breaking Load	KN	1.41 (minium) <i>As per IS.</i>
5.	Weight of Zinc Coating	gm./m ²	190 (minium)
6.	Dip Test	Number	2x1 min
7.	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
8.	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 mandrel 4D x 10 Turns.
G.I. Stay Wire after Stranding			
9.	Lay length	mm.	57.6 (Min) 86.4 (Max)
10.	Overall Diameter	mm.	4.80 (Nominal)
11.	Breaking Load	KN	8.80 (Min)
12.	Elongation	%	6 (Min) (Gauge length = 600 mm)
Individual Wire after Stranding			
13	a) Diameter	mm.	1.57 - 1.66
	b) Weight of zinc coating	gm./m ²	180.5 (Min)
	c) Dip Test	Number	1x1 Min 1x 1/2 Min
	d) 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 mandrel 4D x 10 Turns

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APPROVED

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

Praveer Kumar
Chief Engineer (Project-II)
NBPDCL

Kritika Wires Limited





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	CONTRACTOR	VINDHYA TELELINKS LIMITED
	PROJECT	Revamped Reforms-Based And Results-Linked Distribution Sector Scheme
	CLIENT	NORTH BIHAR POWER DISTRIBUTION CO. LTD
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	Manufacturer	Kritika Wires Limited

GUARANTEED TECHNICAL PARTICULARS

G.I. Stay Wire 7/1.60 mm.(7/16 SWG) diameter

13	a) Diameter	mm.	1.57 - 1.66
	b) Weight of zinc coating	gm./m ²	180.5(Min)
	c) Dip Test	Number	1x1 Min 1x 1/2 Min
	d) 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 mandrel 4D x 10 Turns
14	Tensile strength	N/mm ²	700 (Min)
15	Coil Weight	Kg.	75-100
16	Weight per kilometre of G.I. Stay Wire	Kg./Km.	110.5(Nominal)
17	Sectional area of stranded Wire	mm ²	14.08 (Nominal)
18	Chemical Composition		
	a) Sulphur	%	0.060 (Max)
	b) Phosphorus	%	0.060 (Max)
19	Standard according to which the wires are manufactured and tested		IS 2141 -2000 IS 4826-1979
20	Details of Packing		Each coil of wire shall be suitably bound
21	Others, if any		Nil

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Correctness of materials

Chief Engineer (Project-II)
NBPDCL

Kritika Wires Limited

Regd Office 1A, Bonfield Lane Kolkata 700 001 West Bengal India t +91 33 40037817 e sales@kritikawires.com w www.kritikawires.com
Corporate Office Unit No. 201 2nd Floor Bus Terminus & Commercial Complex Plot-BG-12, AA-I, New Town Pride Hotel Building t +91 33 2986 2140 / 2142
Works Vill Bhagabatipur P.O. Chaturbhujkati Sankrail Howrah 711 313 CIN : L27102WB2004PLC098699 GST : 19AACCK5615N1Z5



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	CONTRACTOR	VINDHYA TELELINKS LIMITED
	PROJECT	Revamped Reforms-Based And Results-Linked Distribution Sector Scheme
	CLIENT	NORTH BIHAR POWER DISTRIBUTION CO. LTD
	NOA NO.	1. 246 dated 6th March 2023 for Supply against NIT No.28/PR/NBPDCL/2022 2. 17 dated 6th March 2023 for Supply against NIT No.32/PR/NBPDCL/2022
	MATERIAL DESCRIPTION	G.I. Wire 8 SWG
	Manufacturer	Kritika Wires Limited

GUARANTEED TECHNICAL PARTICULARS

G.I. Wire 4.00 mm.(8 SWG) diameter

Sl. No.	Description	Unit	Guaranteed Particulars
1.	Maker's Name & Address		Kritika Wires Limited 1A, Bonfield Lane, Kolkata-700001 Vill. : Bhagabatipur, P.O. : Chaturbhujkati, Sankrail, Howrah-711313.
	a)	Office	
	b)	Works	
2.	Name of manufacturer of:		TATA/RINL/SAIL/JINDA/ Others Binani Zinc/Hindustan Zinc Ltd/Others
	a)	Steel Wire/Rods	
	b)	Zinc	
	c)	Complete G.I. Wire	
3.	a)	Diameter of wire	Kritika Wires Limited 4.00
	b)	Tolerance on diameter	%, mm. ± 2.5%, 3.90 mm to 4.10 mm
4.	Sectional Area	mm ²	12.56(Nominal)
5.	Tensile Properties		Soft Galvanized
	a)	Condition	
	b)	Tensile Strength	N/mm ² 300-550 550-950
6.	a)	Wrapping/Bend-Test	Wire shall withstand without breaking or splitting being wrapped 1D x 8 Turns and subsequently straightened
	b)	Adhesive 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 mandrel 6D x 10 turns.
7.	Zinc Coating		Heavy 280 (minimum) 3x1 min 1x 1/2 min
	a)	Type of Zinc Coating	
	b)	Weight of Coating	
	c)	Number of Dips	

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Pranav Kumar
Chief Engineer (Project-II)
NRPDCL

Kritika Wires Limited



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	CONTRACTOR	VINDHYA TELELINKS LIMITED
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	CLIENT	NORTH BIHAR POWER DISTRIBUTION CO. LTD
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	MATERIAL DESCRIPTION	G.I. Wire 8 SWG
	Manufacturer	Kritika Wires Limited

GUARANTEED TECHNICAL PARTICULARS

G.I. Wire 4.00 mm.(8 SWG) diameter

8.	Chemical Composition		
	a) Carbon	%	0.23 Max
	b) Manganese	%	0.30-0.60
	c) Sulphur	%	0.055 Max
	d) Phosphorus	%	0.055 Max
9.	Weight of each coil	Kg.	50-70
10.	Standard according to which the wires are manufactured and tested		IS 280:2006 IS 4826:1979
11.	Details of Packing		Each coil of wire shall be suitably bound
12.	Weight per kilometer of G.I. Wire	Kg./km.	98.6 (Nominal)
13.	Other, if any		Nil

- Tensile Strength (after galvanizing) → 55-95 kg/mm²
- Elongation (heavy coated) → 6% minimum
- Min Breaking load of wire → 402-691 kg
TS: 4826-1979
- length of wire in each coil - 608 mt
- Tolerance - 15%

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NBPDCL

Kritika Wires Limited



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	CONTRACTOR	VINDHYA TELELINKS LIMITED
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	CLIENT	NORTH BIHAR POWER DISTRIBUTION CO. LTD
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	MATERIAL DESCRIPTION	G.I. Stay Wire 7/10 SWG
	Manufacturer	Kritika Wires Limited

GUARANTEED TECHNICAL PARTICULARS

G.I. Stay Wire 7/3.15 mm.(7/10 SWG) diameter

Sl. No.	Description	Unit	Guaranteed Particulars
1.	Maker's Name & Address		
	a) Office		Kritika Wires Limited 1A, Bonfield Lane, Kolkata-700001
	b) Works		Vill. : Bhagabatipur, P.O. : Chaturbhujkati, Sankrail, Howrah-711313.
2.	Name of manufacturer of:		
	a) Steel Wire/Rod		TATA/RINL/SAIL/JINDA/ Others
	b) Zinc		Binani Zinc/Hindustan Zinc Ltd/Others
	c) Complete G.I. Stay Wire		Kritika Wires Limited
G.I. Stay Wire before Stranding			
3.	a) Diameter of wire	mm.	3.15
	b) Tolerance	mm.	+0.06,-0.03
4.	Breaking Load	KN	5.46 (Min)
5.	Weight of Zinc Coating	gm./m ²	240 (Min) <i>250 gm/sqm</i>
6.	Dip Test	Number	3x1 Min
7.	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.
8.	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 mandrel 4D x 10 Turns.
G.I. Stay Wire after Stranding			
9.	Lay length	mm.	113.4 (Min) 170.1 (Max)
10.	Overall Diameter	mm.	9.45(Nominal)
11.	Breaking Load	KN	36.26 (Min)
12.	Elongation	%	6 (Min) (Gauge Length = 600 mm)

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

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[Signature]
Chief Engineer (Project-II)
NBPDCL
Kritika Wires Limited






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	CLIENT	NORTH BIHAR POWER DISTRIBUTION CO. LTD
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	MATERIAL DESCRIPTION	G.I. Stay Wire 7/10 SWG
	Manufacturer	Kritika Wires Limited

GUARANTEED TECHNICAL PARTICULARS

G.I. Stay Wire 7/3.15 mm.(7/10 SWG) diameter

Individual Wire after Stranding			
13	a)	Diameter of wire	mm. 3.12-3.21 ✓
	b)	Weight of zinc coating	gm./m ² 228(Min) 250 gm/m ² ✓
	c)	Dip Test	Number 2x1 min 1x 1/2 min
	d)	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 mandrel 4D x 10 Turns.
14		Tensile strength	N/mm ² 700 (Min) ✓
15		Coil Weight	Kg. 75-100 ✓
16		Weight per kilometre of G.I. Stay Wire	Kg./Km. 428 (Nominal)
17		Sectional area of stranded Wire	mm. ² 54.52
18		Chemical Composition	
	a)	Sulphur	% 0.060 (Max) ✓
	b)	Phosphorus	% 0.060 (Max) ✓
19		Standard according to which the wires are manufactured and tested	IS 2141 -2000 ✓ IS 4826-1979 ✓ IS-6594 ES-7887 ✓
20		Details of Packing	Each coil of wire shall be suitably bound
21		Others, if any	Nil

• Tensile grade — 4 ✓

• Max^m diff^m between two reading taken on any two diameter on the cross section → +/- 2.5% ✓



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

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

Chief Engineer (Project-II)
NBPDCL

Kritika Wires Limited



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	CONTRACTOR	VINDHYA TELELINKS LIMITED
	PROJECT	Revamped Reforms-Based And Results-Linked Distribution Sector Scheme
	CLIENT	NORTH BIHAR POWER DISTRIBUTION CO. LTD
	NOA NO.	1. 246 dated 6th March 2023 for Supply against NIT No.28/PR/NBPDCL/2022 2. 17 dated 6th March 2023 for Supply against NIT No.32/PR/NBPDCL/2022
	MATERIAL DESCRIPTION	G.I. Barbed Wire
	Manufacturer	Kritika Wires Limited

GUARANTEED TECHNICAL PARTICULARS OF G.I. BARBED WIRE

SI. No.	Description	Unit	Guaranteed Particulars
1.	Maker's Name & Address		Kritika Wires Limited Office : 1A, Bonfield Lane, Kolkata-700001 Works : Vill. : Bhagabatipur, P.O. : Chaturbhujkati, Sankrail Howrah-711313
	a) Office		
	b) Works		
	Name of manufacturer of:		
2.	a) Steel Wire/Rods		SAIL/RINL/TISCO
	b) Zinc		Hindustan Zinc Ltd/Binani Zinc Ltd
	c) Complete G.I. Wire		Kritika Wires Limited
3.	Type Of Barbed Wire		A (Lowa Type)
4.	Size Designation of Barbed Wire		1
5.	a) Diameter of Line wire	mm.	2.50
	Diameter of Point wire		2.50
	b) Tolerance on diameter (Line Wire)	mm.	± 0.08mm
	Tolerance on diameter (Point Wire)		± 0.08mm
6.	Barb Length	mm	13 - 18
7.	Distance Between Two barbs	mm	75 ± 12
8.	Tensile Properties		
	a) Tensile Strength of Line Wire	MPa	390-590
	b) Tensile Strength of Complete Barbed Wire	KN	3.7 (Minimum)
	9. Wrapping		Wire shall withstand without breaking or splitting being wrapped eight times round its own diameter and subsequently straightened
10.	No. Of Lays between two consecutive barbs	Nos.	2 - 7

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APPROVED

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Chief Engineer (Project-II)
NBPDCL

Kritika Wires Limited



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	PROJECT	Revamped Reforms-Based And Results-Linked Distribution Sector Scheme
	CLIENT	NORTH BIHAR POWER DISTRIBUTION CO. LTD
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	MATERIAL DESCRIPTION	G.I. Barbed Wire
	Manufacturer	Kritika Wires Limited

GUARANTEED TECHNICAL PARTICULARS OF G.I. BARBED WIRE

11.	Zinc Coating		
	a) Type Of Coating		Light
	b) Weight of Coating	gm/m ²	80 (minimum)
	c) Number of Dips		1x1 min 1x 1/2 min
12.	Chemical Composition		
	a) Carbon	%	0.23 (Max) ✓
	b) Manganese	%	0.30-0.60 ✓
	c) Sulphur	%	0.050 Max ✓
	d) Phosphorus	%	0.050 Max ✓
13.	Weight of each coil	Kg.	25-35 28-32 ✓
14.	Standard according to which the wires are manufactured and tested		IS 278:2009 IS 4826:1979 ✓
15.	Mass of Complete Barbed Wire	Kg./km.	136 - 155 ✓
16.	Other, if any		Nil

Breaking load of Complete Barb wire → 7.5 mm

length per 100kg → 690 mt



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Kritika Wires Limited