



# NORTH BIHAR POWER DISTRIBUTION CO. LTD.

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

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

CIN No: U40109BR2012SGC018920

Letter No: \_\_\_\_\_

[File No:-N-XIII/RDSS/V.A./Motihari Circle-3049/2023-

Dated: \_\_\_\_\_

E-mail: cerdssnbpdc@gmail.com

From,

**Shriram Singh**  
Chief Engineer, Project-I (Urban)

To,

**M/s Vindhya Telelinks Limited**  
Club 125, 6th floor, Tower A, Plot No- 3, 4 & 5,  
Sector 125, Noida, UP-201301  
Email: [ashish@vtlrewa.com](mailto:ashish@vtlrewa.com)/ [s.shah@vtlrewa.com](mailto:s.shah@vtlrewa.com)/ [epc@vtlrewa.com](mailto:epc@vtlrewa.com)

**Sub:- Regarding approval of GTP & Drawing of Nut & Bolts of make M/s S.N. Steels, Ludhiana for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme."**

**Ref:- (i) NOA No.-246 & 247 dated 06.03.2023**  
**(ii) Your letter no.- VTL/NBPDCL/RDSS/Approval/Motihari/17 dated 31.05.2023**

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	Nut & Bolts	M/s S.N. Steels, Guru Gobind Singh Colony, Jaspal Bangar Road, Opp. Satyam Kanda, Near Eastman Chowk Industrial Area-C, Ludhiana

Correction where required in GTP & Drawing submitted by you has been done. However, these GTP & Drawing shall be subject to correctness as per technical specifications of the tender document and the entire responsibility of 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 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

Sd/-

(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.-

Dated-

Copy forwarded M/s Ashoka Buildcon Ltd., Nashik/ M/s Polycab India Ltd., Mumbai /M/s NCC Ltd., Hyderabad- 500081 for information and necessary action.

Encl:-As above

Sd/-

(Shriram Singh)

Chief Engineer, Project-I (Urban)

Memo No.-

586

Date- 14-06-2023

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

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)





# S.N. STEELS

AN ISO 9001 : 2008 CERTIFIED COMPANY

Mfrs. & Suppliers of : HOT DIP GALVANIZED & ALL TYPE OF FASTNERS

E-mail : [snsteels2007@gmail.com](mailto:snsteels2007@gmail.com)

Guru Gobind Singh Colony, Jaspal Bangar Road ,Opp. Satyam Kanda,  
Near Eastman Chowk , Industrial Area-C, Ludhiana.

**GUARNTED TECHNICAL PARTICULARS FOR HDG BOLTS, NUTS Gr.5.6/5 & WASHER**

1	Specifications & Standards				
i)	Bolts	:	IS : 1363 Part 1 & 2 – 1992/2002, IS 12427, IS 1367/2002		
ii)	Nuts	:	IS:14394 IS : 1363 Part 3 -1992		
iii)	Spring Washer	:	IS : 3063 : 1994		
iv)	Flat Washer	:	IS : 2016 : 1967		
2	Tolerances	:	IS : 1367 (Part 2) : 1979/2002		
3	Raw Material	:			
i)	For Bolts & Nuts	:	IS : 1367 Part III & VI Grade-c		
ii)	For Plain Washer	:	IS : 2062-2006 GR. E-250, Carbon steel		
iii)	For Spring Washer	:	IS : 4072 :1975		
iv)	Type of Steel	:	Carbon Steel(MS ROD)		
4	Chemical Composition	:	As per IS : 1367 Part III & VI, IS: 2062-2011 Gr. E-250/C & IS : 4072:1975		
i)	For Bolts, Nuts, Spring Washer & Plain Washer		Bolts	Nuts	S/W P/W
	Carbon (Min.)	:	0.13%	----	0.55% ----
	Carbon (Max.)	:	0.55%	0.50%	0.75% 0.20%
	Phosphorus (Max.)	:	0.05%	0.06%	0.05% 0.040%
	Sulphur (Max.)	:	0.06%	0.15%	0.05% 0.040%
	Magnese (Max.)	:	1.50%	1.50%	0.80% 1.50%
	Silicon (Max.)	:	0.40%	0.40%	0.35% 0.40%
5	Mechanical Properties	:	IS : 1367 Part III - 2002		
a)	For Bolts		Property class 5.6 as per IS 1367-2002		
i)	Tensile Strength (N/Sq. mm-min)	:	500		
ii)	Yield Strength (N/Sq. mm-min)	:	300		
iii)	Stress under proof load (N/sq. mm/min)	:	280		
iv)	Hardness HRB (Min./Max.)	:	79-95 HRB		
v)	Elongation after fracture (%Min)	:	20%		
vi)	Strength under wedge load (N/Sq. mm-min)	:	500		
vii)	Head soundness test	:	No fracture		
b)	For Hex Nuts	:	IS : 1367-1994 part VI AND 14394-1996, class 5		
i)	Proof stress (N/sq. mm-min)	:	500 <del>490</del> APPROVED		
ii)	Hardness HRB (Min./Max.)	:	71-107 HRB		

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

\* The material must comply technical specifications of BSS and relevant IS



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

CE (Project-1). Urban NBPDC





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c)	For Spring Washer	:	S/W			
i)	Hardness test	:	IS : 3063-1994			
ii)	Permanent set. Test	:	IS : 3063-1994			
iii)	Permanent load test	:	IS : 3063-1994			
iv)	Twist test	:	IS : 3063-1994			
6 (a)	Hot Dip Galvanising of Bolts & Nuts	:	IS : 1367 (Part XIII) -1983 , 2629/1966			
i)	Mass of coating (g/m <sup>2</sup> min)	:	Average 375 gm/m <sup>2</sup>			
ii)	Coating Thickness (mm-min)	:	Average 54 microns			
iii)	Uniformity of Zinc Coating	:	CuSo <sub>4</sub> dip test 4 times one minute dip			
			each			
iv)	Adhesion Test	:	With Blunt Knife			
(b)	Hot Dip Galvanising of washers	:	IS : 4759-1996			
i)	Mass of coating (g/m <sup>2</sup> min)	:	Average 460 gm/m <sup>2</sup>			
ii)	Coating Thickness (mm-min)	:	Average 66 microns			
iii)	Uniformity of Zinc Coating	:	CuSo <sub>4</sub> dip test 4 times one minute dip			
			each			
iv)	Adhesion Test	:	With Blunt Knife			
7	Sampling Procedure	:	IS : 1367 Part - 17/IS: 6821-1973			
	For bolts & nuts, spring washer and plain washer					
8	Dimensional Particulars for Bolts, Nuts, Spring washers and plain washers	:	Bolt	Nut	S/W	P/W
			IS:1363	IS:1363	IS:3063/1994	IS:2016
i)	Shank diameter (ds) 'mm'	:	do	----	----	----
ii)	Width across flat (s) 'mm'	:	do	do	----	----
iii)	Width across corner (e) 'mm'	:	do	do	----	----
iv)	Thickness of Bolt head (k) 'mm'	:	do	----	----	----
v)	Length of thread (b)	:	do	----	----	----
vi)	Thickness of Nut (m) in mm	:	IS : 1363 : 1992			
vii)	Spring washers d1, d2, b, s, h	:	IS : 3063 : 1994			
viii)	Plain washers d1, D, s	:	IS : 2016 : 1967			

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GE (Project-1), Urban NBPDCI





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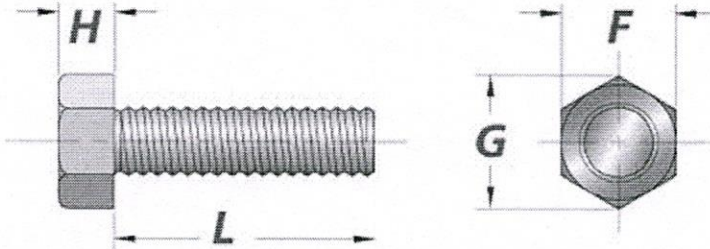
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SR NO	THREAD SIZE	TOLL	M8	M10	M12	M16	M20
1	Pitch		1.25	1.5	1.75	2	2.5
2	Shank Dia	MIN	7.42	9.42	11.3	15.3	19.16
		MAX	8.58	10.58	12.7	16.7	20.84
3	Across Corner (F)	MIN	14.2	17.59	19.85	26.17	32.95
4	Across Flat (G)	MIN	12.57	15.57	17.57	23.16	29.16
		MAX	13	16	18	24	30
5	Head Thickness (H)	MIN	4.92	5.95	7.05	9.25	11.6
		MAX	5.67	6.85	7.95	10.75	11.4
6	THREAD LENGTH	FULL THREAD					

<b>CONTRACTOR</b>	<b>VINDHYA TELELINKS LIMITED</b>
PROJECT	<b>Revamped Reforms-Based And Results-Linked Distribution Sector Scheme</b>
<b>CLIENT</b>	<b>NORTH BIHAR POWER DISTRIBUTION CO. LTD</b>
<b>NOA NO.</b>	1.246 date 6th March 2023 for Supply against NIT No.28/PR/NBPDCL/2022 2.17 date 6th March 2023 for Supply against NIT No.32/PR/NBPDCL/2022
<b>MATERIAL DESCRIPTION</b>	<b>NUTS BOLTS &amp; WASHER</b>
<b>SUPPLIER</b>	<b>S.N. STEELS, Guru Gobind Singh Colony, Jaspal Bangar Road, Ludhiana-141003</b>

\* The material must comply technical specification of IS and relevant IS



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NPPDCL





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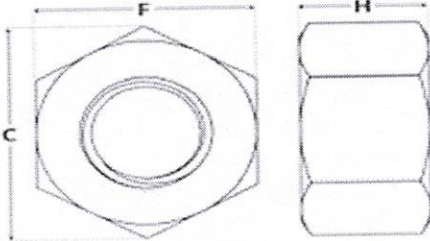
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SR NO	THREAD SIZE	TOLL	M8	M10	M12	M16	M20
1	Pitch		1.25	1.5	1.75	2	2.5
3	Across Corner (F)	MIN	14.2	17.59	19.85	26.17	32.95
4	Across Flat (C)	MIN	12.57	15.57	17.57	23.16	29.16
		MAX	13	16	18	24	30
5	Thickness (H)	MIN	6.4	8	10.4	14.1	16.9
		MAX	7.9	9.5	12.2	15.9	19

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<b>SUPPLIER</b>	S.N. STEELS, Guru Gobind Singh Colony, Jaspal Bangar Road, Ludhiana-141003

\* The material must comply technical specification of RDS and relevant IS



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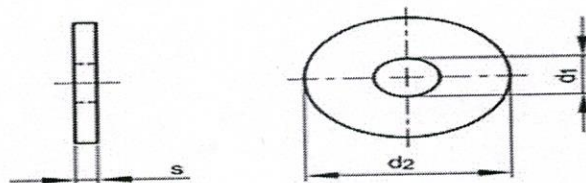
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SR. NO.	BOLT SIZE	TOLL	M8	M10	M12	M16	M20
1	Outer D2 (D)	MIN	15.9	19.7	22.7	28.7	35.4
		MAX	17	21	24	30	37
2	Inner D1 (d)	MIN	9	11	14	18	22
		MAX	9.36	11.43	14.43	18.43	22.52
3	Thickness (S)	MIN	1.3	1.7	2.2	2.55	2.55
		MAX	1.9	2.3	2.8	3.75	3.75

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