



# NORTH BIHAR POWER DISTRIBUTION CO. LTD.

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

CIN No: U40109BR2012SGC018920

[Office of Chief Engineer, Project-III]

Letter No: 839  
[File No: NB/P-II/RDSS/Begusarai/V.A/126/2023]

Contact No: +91-9264437179

Dated: 30/10/23

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 GI Nut Bolt & Washer 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) NBPDC letter no.- 257 dated 20.10.2023.  
3. Your Letter No- TPEPL/NBPDCL-Approval/2023-24/075 dated- 27.10.2023.

With reference to the subject noted above, kindly find the copy of GTP & drawing of GI Nut Bolt & Washer 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	GI Nut Bolt & Washer	M/s J.S. Industries, 76/18/3, Benaras Road, Howrah- 711101.

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, NBPDC 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*  
30/10/2023  
(Pranav Kumar)

Chief Engineer (Project-II)

Memo No 839

Dated 30/10/23

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)  
Chief Engineer, Project-II

Memo No 839

Dated 30/10/23

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

(Pranav Kumar)  
Chief Engineer, Project-II

Memo No 839

Dated 30/10/23

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

(Pranav Kumar)  
Chief Engineer, Project-II

# J. S. INDUSTRY

Manufacturer of : Bolts, Nuts, Rivets, Screws, Washers, etc  
76/18/3, BENARAS ROAD, HOWRAH -711 101  
Tel : 033 3257 8250, Fax : 033 3027 5533  
Mobile : 98310 47666, 99032 20065



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SCHEME	REVAMPED DISTRIBUTION SECTOR SCHEME	
PROJECT	Development of Distribution Infrastructure at Begusarai Electric Supply Circle (Begusarai & Khagaria Districts) of Bihar of under Revamped Reforms-Based And Results-Linked, Distribution Sector Scheme against NIT No.: 34/PR/NBPDCL/2022 invited through National Competitive Bidding	
CUSTOMER	NORTH BIHAR POWER DISTRIBUTION COMPANY LTD., PATNA	
CONTRACTOR	TECHNO POWER ENTERPRISES (P) LIMITED, KOLKATA	
MANUFACTURER	J. S. INDUSTRY, HOWRAH	
LOA No.:	NOA No.: 21 & 22, Dated: 06-03-2023. Fill No. NB/P-II/RDSS/Tender/25/2022	
ITEM DESCRIPTION:	G.I. HEXAGONAL BOLTS, SCREWS, NUTS, PLAIN WASHERS & SPRING WASHERS	
SL. NO.	Particulars	Description
1	Name of the Manufacturer	J. S. Industry.
2	Address of the Manufacturer	76/18/3, Benaras Road, Howrah - 711101. West Bengal
3	Contact Person & Contact No.:	Saurabh Jayaswal - 9831047666
4	Email - ID	isi.saurabh@gmail.com

SL.NO.	DESCRIPTION	UNIT	Details specified as per SBD/NIT/IS		Details provided by Supplier	
1.	Manufacturer's Identification Mark (On Bolt Head Only)		-		"KNJ / JS / M"	
2.	Indian Standard Specification:					
	a) Standard of Hexagonal Head Bolts & Screws		IS : 1363/02 Part 1 & Part 2 ✓			
	b) Standard Mechanical Properties of Hex. Head Bolts & Screws		IS : 1367/02 Part 3 ✓			
	c) Standard of Coatings of Bolts (Sizes M 12 & above)		IS : 1367/83 Part 13 ✓			
	d) Standard of Coatings of Bolts (Sizes below M 12)		IS : 1367/02 Part 11 ✓			
	e) Product Grade of Bolts		C		As per the IS	
	f) Property Class		5.6 ✓		As per the IS ✓	
3.	Chemical Composition of Bolts & Screws:		Min.	Max.		
	a) Carbon	%	0.13	0.55 ✓	0.13 to 0.55 (0.23 max)	
	b) Phosphorus	%	-	0.05	below 0.05 (0.045 max)	
	c) Sulphur	%	-	0.06	below 0.06 (0.045 max)	
4.	Tensile Strength - Bolts	N/mm <sup>2</sup>	500	-	above 500 ✓	
5.	Hardness Brinell - Bolts (End to End)	HB	147	238	147 to 238 ✓	
6.	Hardness Rockwell - Bolts (End to End)	HRB	79	99.5	79 to 99.5 ✓	
7.	Stress under Proof Load - Bolts	S <sub>p</sub> N/mm <sup>2</sup>	280		OK ✓	
8.	Hot Dip Galvanizing: (Bolts of M 12 & above)		Min. Avg.	Min. Ind.		
9.	Thickness of Coating - Min. Average & Min. Individual	µm	54	43	OK ✓	
10.	Mass of Zinc - Min. Average & Min. Individual	g/m <sup>2</sup>	375 ✓	300	OK ✓	
11.	Uniformity of Coating (CuSO <sub>4</sub> )		4 Dip 1 minute each		OK ✓	
12.	Electro-Galvanizing: (Bolts of below M 12)		Min. Avg.	Max. Avg.		
13.	Thickness of Coating	µm	7	10	OK	
14.	Dimensional Specification of Bolts & Screws		As per the IS			
	a) Dia of Bolts	s	k	e	d <sub>s</sub>	b ref. Pitch of Thread
						B C D
	b) M8	12.57 - 13.00	4.92 - 5.67	14.20 min	7.42 - 8.58	22 min 28 min 41 min 1.25
	c) M10	15.57 - 16.00	5.95 - 6.85	17.59 min	9.42 - 10.58	26 min 32 min 45 min 1.50
	d) M12	17.57 - 18.00	7.05 - 7.95	19.85 min	11.30 - 12.70	30 min 36 min 49 min 1.75
	e) M16	23.16 - 24.00	9.25 - 10.75	26.17 min	15.30 - 16.70	38 min 44 min 57 min 2.00
	<del>M20</del>	<del>29.16 - 30.00</del>	<del>11.60 - 13.40</del>	<del>32.95 min</del>	<del>19.16 - 20.84</del>	<del>42 min 52 min 65 min 2.50</del>
	<del>M24</del>	<del>35.00 - 36.00</del>	<del>14.10 - 15.90</del>	<del>39.55 min</del>	<del>23.16 - 24.84</del>	<del>54 min 60 min 73 min 3.00</del>
15.	Standard of Hexagonal Head Nuts		IS : 1363/02 Part 3			

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



**CHECKED**  
Sd/-  
AEE(P-II) EEE(P-II) ESE(P-II)

Sd/-  
Saurabh Jayaswal



# J. S. INDUSTRY

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16.		Mechanical Properties of Hexagonal Head Nuts			IS : 1367/94 Part 6	
17.		Standard of Coatings of Nuts (Sizes M 12 & above)			IS : 1367/83 Part 13	
18.		Standard of Coatings of Nuts (Sizes below M 12)			IS : 1367/02 Part 11	
19.		Product Grade of Nuts			C	As per the IS
20.		Property Class			5 ✓	As per the IS
21.		Chemical Composition of Nuts:			Min.	Max.
	a)	Carbon	%	-	0.50 ✓	Below 0.50
	b)	Phosphorus	%	-	0.06 ✓	Below 0.06
	c)	Sulphur	%	-	0.15 ✓	Below 0.15
22.		Hardness Vickers - Nuts			HV	130 302
						130 to 302
23.		Stress under Proof Load - Nuts			S <sub>p</sub> N/mm <sup>2</sup>	610
						OK
24.		Hot Dip Galvanizing: (Nuts of M 12 & above)			Min. Avg.	Min. Ind.
25.		Thickness of Coating - Min. Average & Min. Individual			µm	54 43 ✓
						OK
26.		Mass of Zinc - Min. Average & Min. Individual			g/m <sup>2</sup>	375 300 ✓
						OK
27.		Uniformity of Coating (CuSO <sub>4</sub> )			4 Dip 1 minute each ✓	
						OK
28.		Electro-Galvanizing: (Nuts of below M 12)			Min. Avg.	Max. Avg.
29.		Thickness of Coating			µm	7 10
						OK
30.		Dimensional Specification of Nuts			As per the IS	
	a)	Dia of Nuts	s	m	e	Pitch of Thread
	b)	M8	12.57 - 13.00	6.40 - 7.90	14.20 min	1.25
	c)	M10	15.57 - 16.00	8.00 - 9.50	17.59 min	1.50
	d)	M12	17.57 - 18.00	10.40 - 12.20	19.85 min	1.75
	e)	M16	23.16 - 24.00	14.10 - 15.90	26.17 min	2.00
	<del>f)</del>	<del>M20</del>	<del>29.16 - 30.00</del>	<del>16.90 - 19.00</del>	<del>32.95 min</del>	<del>2.50</del>
	<del>g)</del>	<del>M24</del>	<del>35.00 - 36.00</del>	<del>20.20 - 22.30</del>	<del>39.55 min</del>	<del>3.00</del>
31.		(Standard of Punched Washers)			IS : 2016/67 Type A ✓	
32.		Electro-Galvanizing:			Min. Avg.	Max. Avg.
33.		Thickness of Coating			µm	7 10
						OK
34.		Dimensional Specification of Punched Washers			As per the IS	
	a)	Dia of Washers	D	d	s	-
	b)	M8	17	9	1.60	-
	c)	M10	21	11	2.00	-
	d)	M12	24	14	2.50	-
	e)	M16	30	18	3.15	-
	<del>f)</del>	<del>M20</del>	<del>37</del>	<del>22</del>	<del>3.15</del>	<del>-</del>
	<del>g)</del>	<del>M24</del>	<del>44</del>	<del>26</del>	<del>4.00</del>	<del>-</del>
35.		(Standard of Spring Washers)			IS : 3063/94 ✓	
36.		Standard of Coatings of Spring Washers			IS : 1573/86 Grade 3	
37.		Dimensional Specification of Spring Washers			As per the IS	
	a)	Dia of Washers	b	d1	d2	s h
	b)	M8	3.0 ± 0.15	8.10 - 8.50	14.80 (max.)	2.0 ± 0.10 4.00 - 4.70
	c)	M10	3.5 ± 0.20	10.20 - 10.70	18.10 (max.)	2.2 ± 0.15 4.40 - 5.20
	d)	M12	4.0 ± 0.20	12.20 - 12.70	21.10 (max.)	2.5 ± 0.15 5.00 - 5.90
	e)	M16	5.0 ± 0.20	16.20 - 17.00	27.40 (max.)	3.5 ± 0.20 7.00 - 8.30



**CHECKED** you are not absolver of the responsibility of correctness of materials  
 AEE(P-II) EEE(P-II) ESE(P-II)  
 Chief Engineer (Project-II)



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	<del>Q</del>	M20	<del>6.0 ± 0.20</del>	<del>20.20 - 21.20</del>	<del>33.60 (max.)</del>	<del>4.0 ± 0.20</del>	<del>8.00 - 9.40</del>
	<del>QK</del>	M24	<del>7.0 ± 0.25</del>	<del>24.50 - 25.50</del>	<del>40.00 (max.)</del>	<del>5.0 ± 0.20</del>	<del>10.00 - 11.80</del>
38.		Packing Details	One Plastic Bag Inside Gunny Bag				
39.		Tagging Details:	Coloured Product Tags				
	a)	Tag Information 1	Manufacturing Company's Name				
	b)	Tag Information 2	Material Size & Grade				
	c)	Tag Information 3	Quantity & UOM				
	d)	Tag Information 4	Lot No. & Project Name				
	e)	Other particulars if any.	As Per Buyer's Instructions				



**CHECKED**

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

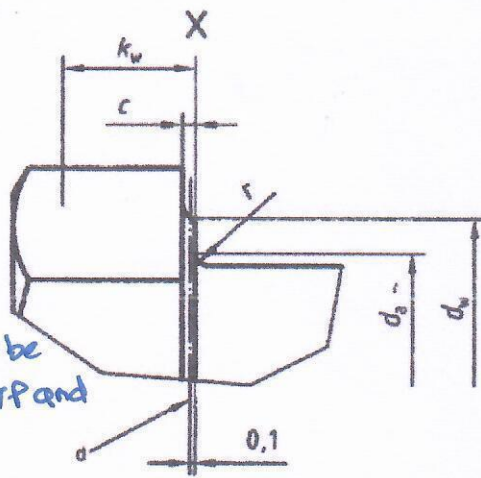
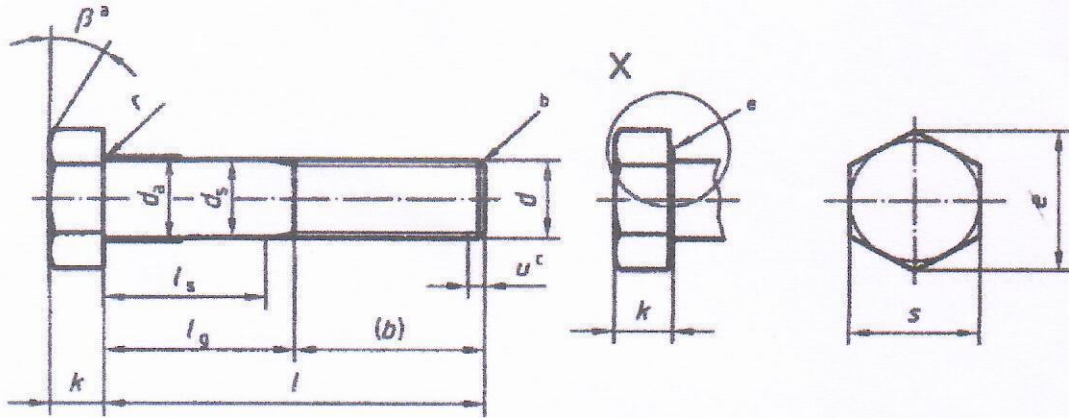


**APPROVED**

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

*[Signature]*  
 Chief Engineer (Project-II)  
 NBPDC

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Note:- The drawing should be as per the approved GTP and relevant IS.

HEX HEAD BOLT

PROJECT	Development of Distribution Infrastructure at Begusarai Electric Supply Circle (Begusarai & Khagaria Districts) of Bihar under Revamped Reforms-Based and Results-Linked, Distribution Sector Scheme against NIT No.: 34/PR/NBPDCL/2022 invited through National Competitive Bidding	
NAME OF OWNER	NORTH BIHAR POWER DISTRIBUTION COMPANY LTD., PATNA	
CONTRACTOR	M/S. TECHNO POWER ENTERPRISE PVT. LTD., KOLKATA	
LOA NO.	NOA No.: 21 & 22, Dated: 06-03-2023. Fill No. NB/P-II/RDSS/TENDER/25/2022	
DRAWING TITLE	NBPDCL/RDSS/ISI/HB/01	For Hex Bolts
MANUFACTURER	J. S. INDUSTRY, HOWRAH	

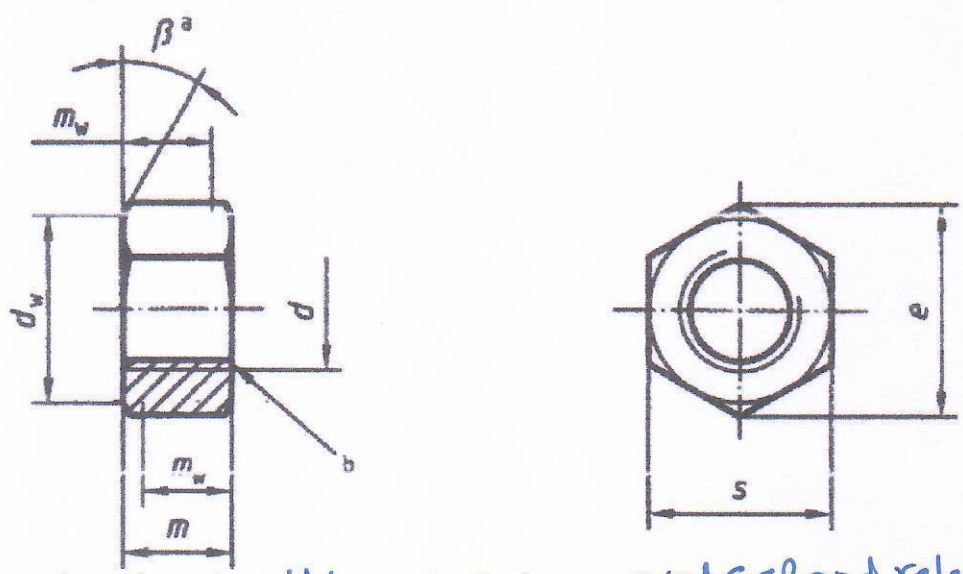


**CHECKED**  
*Sheela Devi*  
 AEE(P-II) EEE(P-II) ESE(P-II)



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

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Note:- The drawing should be as per approved GTP and relevant IS.

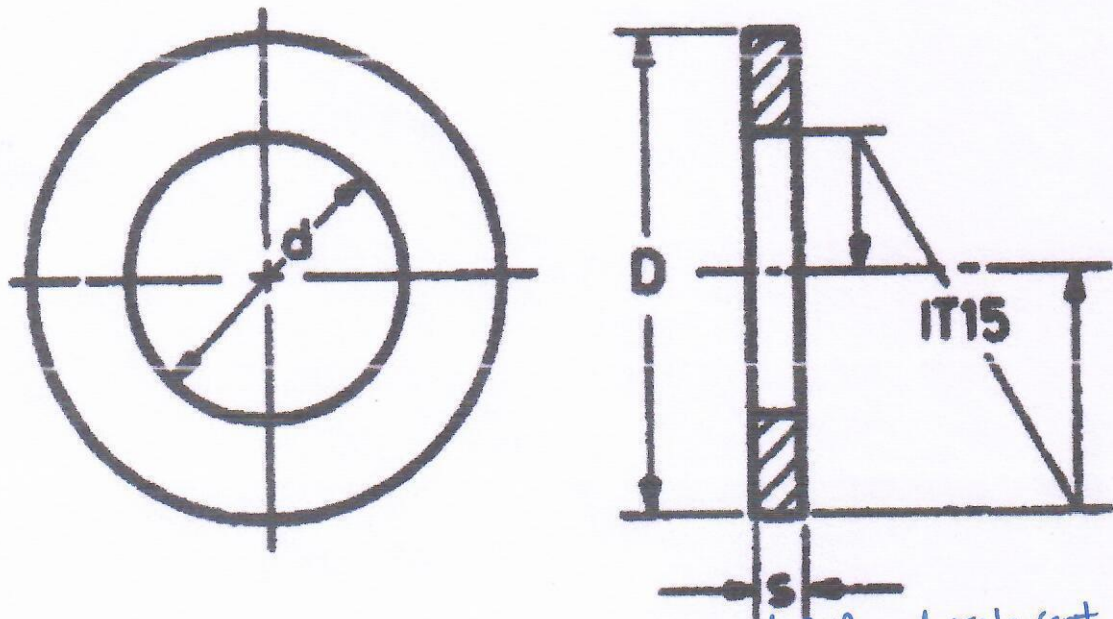
HEX NUT

PROJECT	Development of Distribution Infrastructure at Begusarai Electric Supply Circle (Begusarai & Khagaria Districts) of Bihar under Revamped Reforms-Based and Results-Linked, Distribution Sector Scheme against NIT No.: 34/PR/NBPDCL/2022 invited through National Competitive Bidding	
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LOA NO.	NOA No.: 21 & 22, Dated: 06-03-2023. Fill No. NB/P-II/RDSS/TENDER/25/2022	
DRAWING TITLE	NBPDCL/RDSS/ISI/HN/01	For Hex Nuts
MANUFACTURER	J. S. INDUSTRY, HOWRAH	



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

**APPROVED**  
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*[Signature]*  
 Chief Engineer (Project-II)  
 NBPDCL



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PLAIN PUNCHED WASHERS

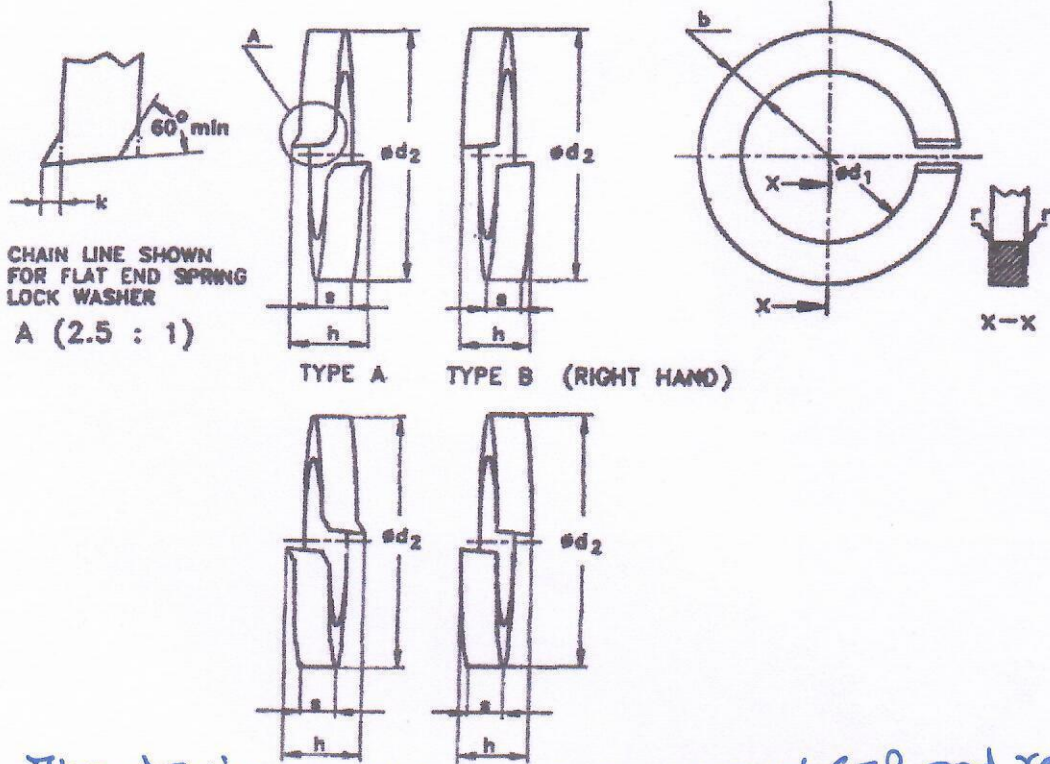
PROJECT	Development of Distribution Infrastructure at Begusarai Electric Supply Circle (Begusarai & Khagaria Districts) of Bihar under Revamped Reforms-Based and Results-Linked, Distribution Sector Scheme against NIT No.: 34/PR/NBPDCL/2022 invited through National Competitive Bidding	
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CONTRACTOR	M/S. TECHNO POWER ENTERPRISE PVT. LTD., KOLKATA	
LOA NO.	NOA No.: 21 & 22, Dated: 06-03-2023. Fill No. NB/P-II/RDSS/TENDER/25/2022	
DRAWING TITLE	NBPDCL/RDSS/JSI/PW/01	For Plain Washers
MANUFACTURER	J. S. INDUSTRY, HOWRAH	



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



**APPROVED**  
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*[Signature]*  
 Chief Engineer (Project-II)  
 NBPDCL



Note:- The drawing should be as per approved GRP and relevant IS.

SPRING WASHERS

PROJECT	Development of Distribution Infrastructure at Begusarai Electric Supply Circle (Begusarai & Khagaria Districts) of Bihar under Revamped Reforms-Based and Results-Linked, Distribution Sector Scheme against NIT No.: 34/PR/NBPDCL/2022 invited through National Competitive Bidding	
NAME OF OWNER	NORTH BIHAR POWER DISTRIBUTION COMPANY LTD., PATNA	
CONTRACTOR	M/S. TECHNO POWER ENTERPRISE PVT. LTD., KOLKATA	
LOA NO.	NOA No.: 21 & 22, Dated: 06-03-2023. Fill No. NB/P-II/RDSS/TENDER/25/2022	
DRAWING TITLE	NBPDCL/RDSS/JSI/SW/01	For Spring Washers
MANUFACTURER	J. S. INDUSTRY, HOWRAH	



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



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*[Signature]*  
 Chief Engineer (Project-II)  
 NBPDCL