



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: 1465

[File No:-N-XIII/RDSS/V.A/Samastipur Circle-3103/2023-

Dated: 17-10-2023

E-mail: cerdssnbpdc@gmail.com

From,

Shriram Singh
Chief Engineer, Project-I (Urban)

To,

M/s Polycab India Ltd.
Polycab House, 771,
Pandit Satwalekar Marg, Mumbai
Email:- umesh.joshi@polycab.com

Sub:- Regarding approval of GTP & Drawing of Stay Set, Pipe Earthing, Coil Earthing, HT & LT Danger Board, GI Fabrication material, Eye Hook of make M/s Industrial Forging Industries Pvt. Ltd., Howrah for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme."

Ref:- (i) NOA No.-248 & 249 dated 06.03.2023
(ii) Your letter no.-PIL/HO/22-23/NBPDCL/Misc/128 dated 13.10.2023

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	16 mm dia Stay Set	M/s Industrial Forging Industries Pvt. Ltd., Jalan Complex, Gate No.-1, Bipranpara, Howrah-711411
2	Pipe Earthing & Coil Earthing	
3	HT & LT Danger Board	
4	GI Fabrication Structure material	
5	Eye Hook Flat type	

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.- 1465

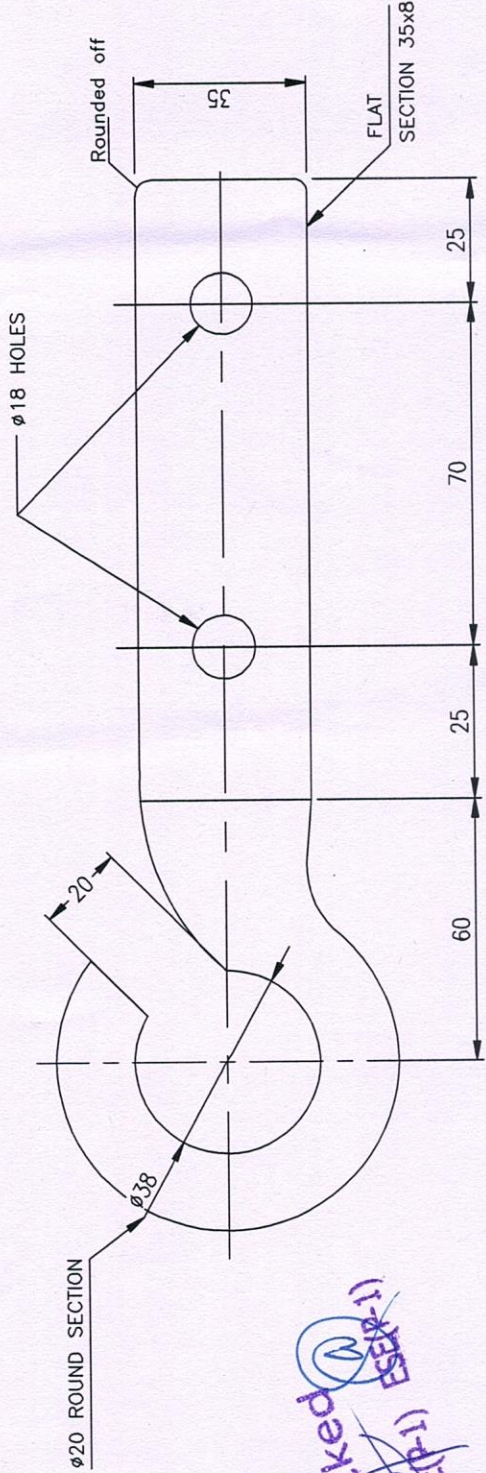
Date- 17-10-2023

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

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)



EYE HOOK TYPE "A"

Checked (Signature) ESEP-11
 (Signature) ESEP-11
 (Signature) ESEP-11

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

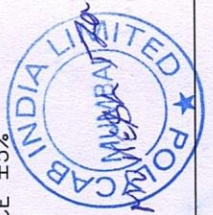
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 IPPNC



M. Pandit

TECHNICAL DATA:

1. ALL DIMENSIONS ARE IN MM
2. MATERIAL : MILD STEEL
3. GENERAL TOLERANCE ±5%
4. UTS (KN) : 20 KN

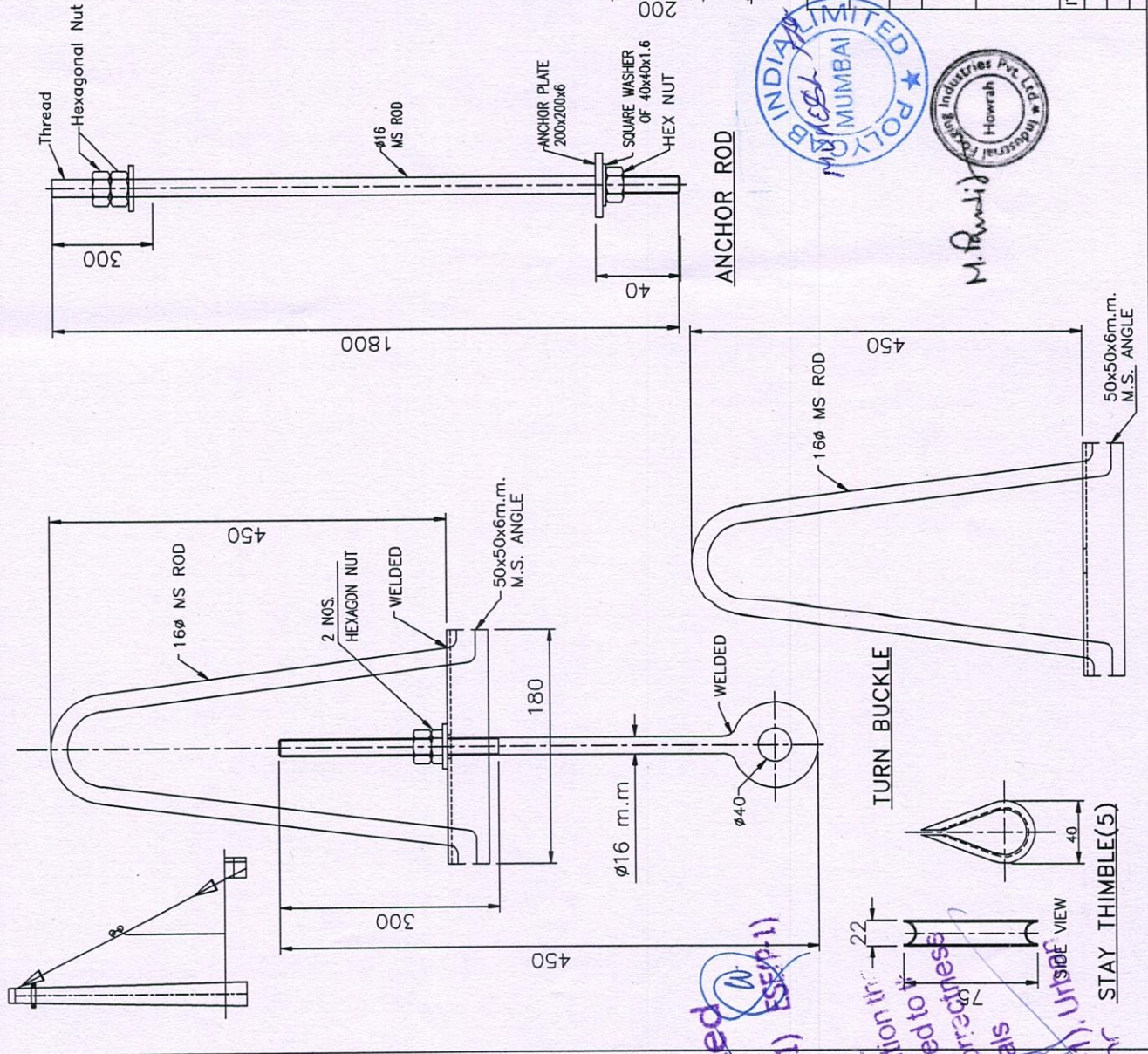


POLYCARB	POLYCYAB India Ltd. POLYCYAB House, 771 Pandit Satawalekar Marg, Mahim West, Mumbai- 400016
PROJECT	Development of Distribution Infrastructure at Samsajpur Electric Supply Circle (Samsajpur & Valsahall districts) of Bihar under the Revamped Reforme-based and Results-linked, Distribution Sector Scheme.
OWNER	North Bihar Power Distribution Company Limited Vidyut Bhanan, Bailey Road, Patna-21
NOA No.	N-XIII/P-I(U)/Tender(RDSS)-3050/2022/248 Dated:06/03/2023 N-XIII/P-I(U)/Tender(RDSS)-3050/2022/249 Dated:06/03/2023
Industrial Forging Industries Pvt. Ltd.	JALAN COMPLEX, GATE NO.-1, BIPARNA PARA, HOWRAH-711411 TELE NO.:+91-33-26671625, FAX:+91-33-2677552,Mail: amit@dagsgroup.com
ITEM :	EYE HOOK
DRG. NO	IFL-118
DRAWN BY	CHECKED BY APPROVED BY
RKE	S.PANDIT S.DAGA NTS. M.M. 15.06.23
	REVISION
	0 1 2 3 4 5 6 7 8 9 10
	SCALE UNITS DATE

BILL OF MATERIALS			
SL	ITEM	MATERIALS	QTY
1a	Anchor Rod 16mm - Stud Type	M.S. HDG	1
1b	M16 Nut	M.S. HDG	3
1c	40x40x1.6mm Washer	M.S. HDG	1
2	Anchor Plate - 200x200x6mm	M.S. HDG	1
3a	Turn Buckle Type 16mm	M.S. HDG	2
3b	M.S. Angle - 50x50x6-180mm	M.S. HDG	2
4a	M16 Eye Bolt	M.S. HDG	1
4b	M16 Nut & Washer	M.S. HDG	2
5	Thimble	M.S. HDG	2

NOTES:

1. All Dimensions are in m.m. otherwise specified.
2. Raw materials as per IS 2062/2011 Gr. E250A.
3. All materials are hot dip galvanized.
4. Galvanizing as per IS:2629-1985 & IS:4759-1986
5. Nuts as per IS:1367-1967 & IS:1363-1967
6. Tensile load on the stay set 3100 Kg.



POLYCYAB India Ltd.
 # 29, The Ruby, 21st Floor, Bopal Road, Bopal, Mumbai - 400028
 Department of Distribution Infrastructure of Sumitomo Electric Supply Chain
 (Manufacturer & Vendor) working of Meter under the Revamped Performance-based and Results-based Distribution Sector Scheme.
 North Bihar Power Distribution Company Limited
 Vajrapur, Bhawanipatna, Buxar Road, Patna-81

N-XII/P-(U)/Tender(RDSS)-3050/2022/248 dtd. 06.03.2023
 N-XII/P-(U)/Tender(RDSS)-3050/2022/249 dtd. 06.03.2023

Industrial Forging Industries Pvt. Ltd.
 JALAN COMPLEX, GATE NO.-1, BIPARNA PARA, HOWRAH-711141
 TELE NO. : +91-8320500294, Mail : emil@doggroup.com


ITEM : STAY SET 16x1800MM

DRG. NO.	IF-101(B)	REVISION	0	1	2	3	4	5	6	7	8	9	10
DRAWN BY		CHECKED BY	SCALE		UNITS		DATE						
RCE	S.P.NUOT	S.DAGA	M.S.		M.M.		01.09.18						

Checked (M) ESE(P-1)
 APPROVED (M) ESE(P-1)
 Subject to the condition that the contractor shall be responsible for the quality of the work and shall be liable for any damage or loss caused to the project.

CE/Project-10101

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 POLYCAB	POLYCAB India Ltd. POLYCAB House, 771 Pandit Satawalekar Marg, Mahim West, Mumbai- 400016
PROJECT	Development of Distribution Infrastructure at Samastipur Electric Supply Circle (Samastipur & Vaishali districts) of Bihar under the Revamped Reforms-based and Results-linked, Distribution Sector Scheme.
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NAME OF THE MANUFACTURER	INDUSTRIAL FORGING INDUSTRIES PVT. LTD. JALAN COMPLEX, GATE NO.1, BIPARNAPARA, HOWRAH - 711411, W.B. INDIA

GUARANTEE TECHNICAL PARTICULARS OF HDG 16 X 1800MM STAY SETS.(11KV)

01.	Relevant Standard	IS: 2062, IS: 2633, IS:2629
02.	Dimensions	
03.	Anchor Rod (16mm dia) 1 no.	
a.	Dia of Rod	16mm (+5%, -3%) ✓
b.	Overall length of Anchor Rod	1800mm (+0.5%) ✓
c.	Inside Dia of Rounded Eye	40mm (+3%) ✓
d.	Length of threaded Portion	40mm (+11%, -5%) ✓
e.	Size of MS Nut Bolt, Square MS Washers confirming to IS:1387 (1967) and IS:1363(1967) ✓	16mm sq. washer 40x40x6mm 40x40x1.6mm.
04.	Anchor Plate 1 No.	
a.	Size of the MS Anchor Plate	200x200x6mm ✓
b.	Dia of the hole made at the centre of Plate	18mm ✓
05. A	Turn Buckle	2 Nos (two)
i)	Dia of the Eye Bolt	16mm (+5%, -3%) ✓
ii)	Length of the eye bolt	450mm ✓
iii)	Length of the threaded Portion of the bolt	300mm ✓
vi)	Inner dia of the circular eye made at other end of the bolt	40mm ✓
B)	Bow with welded angle	
i)	Dia of the MS Rod Used for Bow	16mm dia ✓
ii)	Overall length and height of the bow	995mm ✓ 450mm ✓
iii)	Magnitude of the angle in radians by which bow is bended at the top	10R ✓
iv)	Length and size of the GI Angle Welded at the order end of the bow	180mm & 50x50x6.0mm Angle / 75X40X6mm Channel ✓
v)	Number of Holes made in the GI Angle	3 ✓
vi)	Dia of the holes	18mm (3 Nos.) ✓
06.	Thimble : 1 No.	
a)	Thickness of the MS Sheet used for thimble	1.5mm ✓
b)	Size of Thimble	75x22x40mm ✓
07.	Minimum Strength of the welding provide on various components of Guy/Stay Sets (IS: 823/1964)	3100 Kg. ✓
08.	Average weight of finished stay sets	7.702 Kg (min) / 8.445 Kg. (Max)
09..	Surface finish of Stay Sets	Hot Dip Galvanized as per IS 2633 & IS 4759

NOTE- left over parameters if any as per the drawing. **APPROVED**


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

Checked
MD AEE(P-1) EEE(P-1) ESEP(P-1)



CE (Project-1), Urban
NBPDCL

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	POLYCAB India Ltd. POLYCAB House, 771 Pandit Satawalekar Marg, Mahim West, Mumbai- 400016
PROJECT	Development of Distribution Infrastructure at Samastipur Electric Supply Circle (Samastipur & Vaishali districts) of Bihar under the Revamped Reforms-based and Results-linked, Distribution Sector Scheme.
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NAME OF THE MANUFACTURER	INDUSTRIAL FORGING INDUSTRIES PVT. LTD. JALAN COMPLEX, GATE NO.1, BIPARNAPARA, HOWRAH - 711411, W.B. INDIA

GUARANTEED TECHNICAL PARTICULARS OF 40MM DIA 3000MM LONG GI EARTHING PIPE

01.	Diameter of earthing Pipe	40mm dia ✓
02.	Standard	IS:1239 <i>or its latest amendment, Grade A.</i>
03.	Material	GI Pipe
04.	Make	Any ISI Mark ✓
05.	Class	Medium, <i>B</i>
06.	Length of Pipe Earthing	3000mm ✓
07.	Dimensions of Holes	12mm ✓
08.	Outdoor Diameter	47.9mm min to 48.8mm max. ✓
09.	Wall Thickness	4mm ✓
10.	Centre of Hole <i>(Distance of hole to hole centre)</i>	150mm ✓
11.	Tolerance on dimensions/weight	±5% <i>as per IS:1239.</i>
12.	% of Elongation	20 ✓
13.	Tensile Strength	320 N/mm ² ✓
14.	Galvanizing shall confirm	IS:2633, IS:2629, <i>weight of zinc coating - 400gm/sq m</i>
15.	Dimension of Clamp	50x6 GI Flat ✓

NOTE - Left over parameters if any shall be as per IS of RDSS.

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




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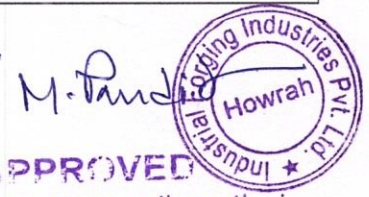
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GUARANTEED TECHNICAL PARTICULARS OF GI EARTHING COIL

01.	Materials of Earthing Coil	GI Wire ✓ <i>IS:280</i>
02.	Dimensions	
a.	Wire Diameter	8 SWG (4mm) ✓
b.	Outside dia of Coil	50mm(Min) ✓
c.	Length of Coil	460mm (Min) ✓
d.	Free Length of GI Wire of Earthing Coil	2500mm ✓
03.	No. of Turns of Coil	115 Turns ✓
04.	Surface Finish	Galvanized ✓ <i>Heavy Coating</i>
05.	Complete weight of Earthing Set (in Kgs.)	1.8 Kg. (Approx.) ✓ <i>The turns should be closely bound</i>
06.	General Tolerance in Dimensions & Weight	± 2.5% ✓
07.	Reference Standard	IS:2633, IS:2629, IS:280/1978, 7887/1992, 4826/1979, ✓
08.	Mass of Zinc Coating	280gm/sq.mm (before coiling) & ✓ 266gm/sq.mm (after Coiling)
09.	Mass of Zinc Coating	As per IS:4826/1969 <i>IS 6745/1971</i>

Dip test & Adhesion Test as per IS 4826/1979

NOTE - Leftover parameters if any shall be as per IS of RDSS.






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MP



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	<p align="center">POLYCAB India Ltd. POLYCAB House, 771 Pandit Satawalekar Marg, Mahim West, Mumbai- 400016</p>
<p>PROJECT</p>	<p>Development of Distribution Infrastructure at Samastipur Electric Supply Circle (Samastipur & Vaishali districts) of Bihar under the Revamped Reforms-based and Results-linked, Distribution Sector Scheme.</p>
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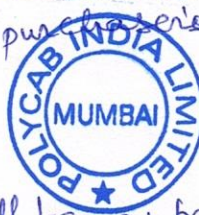
GUARANTEE TECHNICAL PARTICULARS OF 11 KV DANGER BOARD

01.	Standard	IS:2551-1982 ✓
02.	Dimensions	For High and extra high voltage installation 250x200mm ✓
03.	Diameter of Hole	10mm ✓
04.	Material	Mild Steel ✓
05.	Thickness of Sheet (Min)	1.6mm ✓
06.	Colour	Conform to IS:5/1978 ✓
07.	Weather Proof Test	AS per IS:8709-1977 ✓
08.	Details of Packing	100 Nos. / Carton. <i>Packed in wooden crates.</i>
09.	Front side of the board	The Plate is vitreous enamelled white with letters, figures and the conventional skull and cross - bones in signal red colour. ✓
10.	Rear side of the board	Rear side of the plate is black enamelled ✓
11.	Letter size	As per IS 2551/1982 ✓
12.	Languages	The language will be Hindi and English ✓

→ The words and letter "DANGER", 11000, 33000 and "VOLTS" are in English & Hindi

→ The Maker's name, trademark & purchaser's name shall be marked such that it does not interfere with the other information

NOTE - Left over parameters if any shall be as per ^{TSR} RDC.




Checked
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	POLYCAB India Ltd. POLYCAB House, 771 Pandit Satawalekar Marg, Mahim West, Mumbai- 400016
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NAME OF THE MANUFACTURER	INDUSTRIAL FORGING INDUSTRIES PVT. LTD. JALAN COMPLEX, GATE NO.1, BIPARNAPARA, HOWRAH - 711411, W.B. INDIA

GUARANTEE TECHNICAL PARTICULARS OF LT DANGER BOARD

01.	Standard	IS:2551-1982 ✓
02.	Dimensions	For Low voltage installation 200x150mm ✓
03.	Diameter of Hole	10mm ✓
04.	Material	Mild Steel ✓ <i>thickness - 1.6mm</i>
05.	Thickness of Sheet (Min)	1.6mm ✓
06.	Colour	Conform to IS:5/1978 ✓
07.	Weather Proof Test	AS per IS:8709-1977 ✓
08.	Details of Packing	100 Nos. / Carton. <i>Packed in wooden crates</i>
09.	Front side of the board	The Plate is vitreous enamelled white with letters, figures and the conventional skull and cross - bones in signal red colour. ✓
10.	Rear side of the board	Rear side of the plate is black enamelled ✓
11.	Letter size	As per IS 2551/1982 ✓
12.	Languages	The language will be Hindi and English ✓

→ Maker's name & trademark & purchaser's name shall be marked such that it does not interfere with other information.

NOTE - leftover parameters if any shall be as per IS of RDSS.

→ The words & letters "DANGER", 415/440 and "VOLTS" are in English & Hindi



M. T...


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

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 POLYCAB	POLYCAB India Ltd. POLYCAB House, 771 Pandit Satawalekar Marg, Mahim West, Mumbai- 400016
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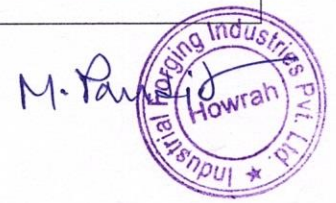
GU GUARANTEED TECHNICAL PARTICULARS OF GI CHANNEL 100X50MM, GI CHANNEL 75X40MM, GI ANGLE 50X50X6MM, GI ANGLE 65X65X6MM, GI FLAT 65X8MM, GI FLAT 50X8MM, GI FLAT 50X6MM, GI FLAT 40X6MM, GI FLAT 30X6MM, GI FLAT 25X3MM

01.	Materials	100x50mm Channel, ✓ 75x40mm Channel, ✓ 50x50x6mm Angle, 65x65x6mm Angle. GI Flat 65x8mm GI Flat 50x8mm GI Flat 50x6mm GI Flat 40x6mm GI Flat 30x6mm GI Flat 25x3mm
02.	Galvanized Process	Hot Dip Galvanized Channel, Angle & Flat ✓
03.	Relevant Standard	IS:2062, IS: 2633, IS: 2629, IS:4759
04.	Grade of Steel	E 250A (as per IS:2062)
05.	Minimum Tensile Strength	410 N/mm ² ✓
06.	Yield Stress	250 N/mm ² ✓
07.	Percentage Elongation (Min) at Gauge Length	23% ✓
08.	Bend Test (Internal Dia)	Min-2t <i>Mu-3t</i>
09.	Mass of Zinc Coating	705 gm/m ² <i>As per IS 6745</i>
10.	Zinc Coating Thickness	100 Microns (6 Dip) <i>Dip tests as per IS 2633, IS 2632</i>
11.	Chemical Composition	E 250A (as per IS:2062) ✓
12.	Tolerance	± 2%

NOTE - Leftover parameters if any shall be as per TS of RDSS.

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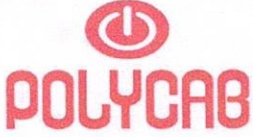


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EE (Project-1), Urban
NRPDCL

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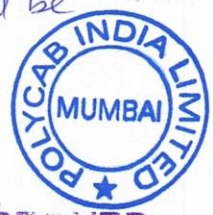
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GUARANTEED TECHNICAL PARTICULARS OF EYE HOOK FLAT TYPE

Sl.No.	Technical Particular	Desired Value
01.	Application	To hold suspension clamp and dead end clamp with pole
2	Material	Mild steel Grade E250A, IS:2062 <i>Forged Galvanized steel</i>
3	Finish Material	Hot Dip Galvanized steel (As per IS:2633 with latest amendment) <i>IS 2629</i>
4	Type of Hook	35x6 Flat Eye Hook
5	Type of Design	Forged Eye Hook
6	Dimension	As per GA Drawing
7	Ultimate Tensile strength, Min	20 KN
8	Tolerance	±5%
9	Type of Packing	40 Pcs in Gunny Bags
10	Corner of Eye Hook	Rounded off.

NOTE - leftover parameters if any shall be as per TS of RDSS

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CE (Project-1), Urban
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