

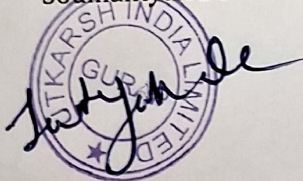
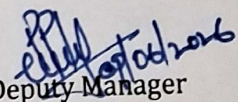
JOINT INSPECTION REPORT

DATE OF INSPECTION : 09.06.2026
ITEM DESCRIPTION : 24.5 M STADIUM MAST WITH ACCESSORIES- 4 SETS
SUB SUPPLIER NAME : M/s METTALON INDIA
SUPPLIER NAME : M/S KABIR ENGINEERING SOLUTION
CLIENT NAME : JINDAL POWER LIMITED, SIMHAPURI UNIT

FABRICATION DIMENSION : (All dimensions are in MM)

S. No.	Item Description - Parameter	Spec. Dimension as per drawing	Observed Dimension
1	Total Height	24500	24500-24514
2	Number of Segment	4	4
3	Length of Segment Bottom	7750	7754
4	Length of Segment Middle	7750	7755
5	Length of Segment Top	7750	7753
6	Length of Segment Extension Top	3500	3502
7	Thickness of Segment Bottom	8	8
8	Thickness of Segment Middle	6	6
9	Thickness of Segment Top	5	5
10	Thickness of Segment Extension Top	4	4
11	Bottom Across Flat	870	870-872
12	Top Across Flat	350	350-352
13	Door Elevation	500	500-503
14	Size of Door Opening	1200X300	1200X302
15	Base Plate (OD X Thick)	1150X50	1150X50
16	No. of Hole	20	20
17	Hole Dia	Ø45	Ø45
18	PCD of Hole	1020	1020
19	No. of lighting channel	2	2
20	Coating Thickness (Micron) (IS 4759:1996)	85 µ Avg	100 µ, 115 µ, 124 µ

Remark : Dimension of the Mast checked as per appv dwg & the same found satisfied.

Soumantiyak De  Quality Engg For Utkarsh India Limited	P.PRASHANT KUMAR  Deputy Manager JINDAL POWER LIMITED (Simhapuri Unit)
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JOINT INSPECTION REPORT

CLIENT NAME : JINDAL POWER LIMITED, SIMHAPURI UNIT

SUPPLIER NAME: M/S KABIR ENGINEERING SOLUTION

SUB SUPPLIER :M/S METTALON INDIA

Inspection Report No.: 01

PO NO:MI/25-26/00151

Product: 9Mtr Octagonal with Brackets & FDN Bolts

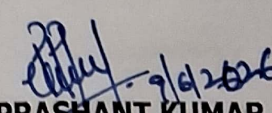
Inspection Date : 09.06.2026

SL NO	CATALOUGE REFERENCE	BATCH CODE	QTY OFFERED	ACCEPTED QTY.	REJECTED QTY.	REF NO
1	9Mtr Octagonal with Brackets & FDN Bolts	-	50 nos	50 nos	NIL	OP/

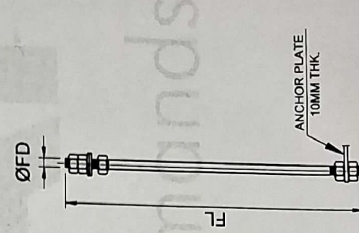
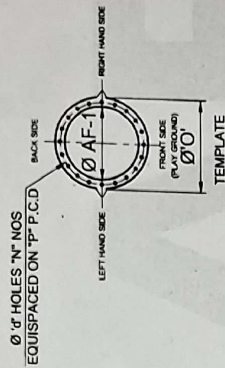
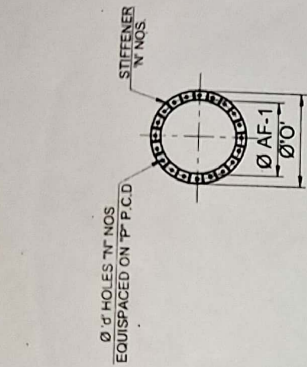
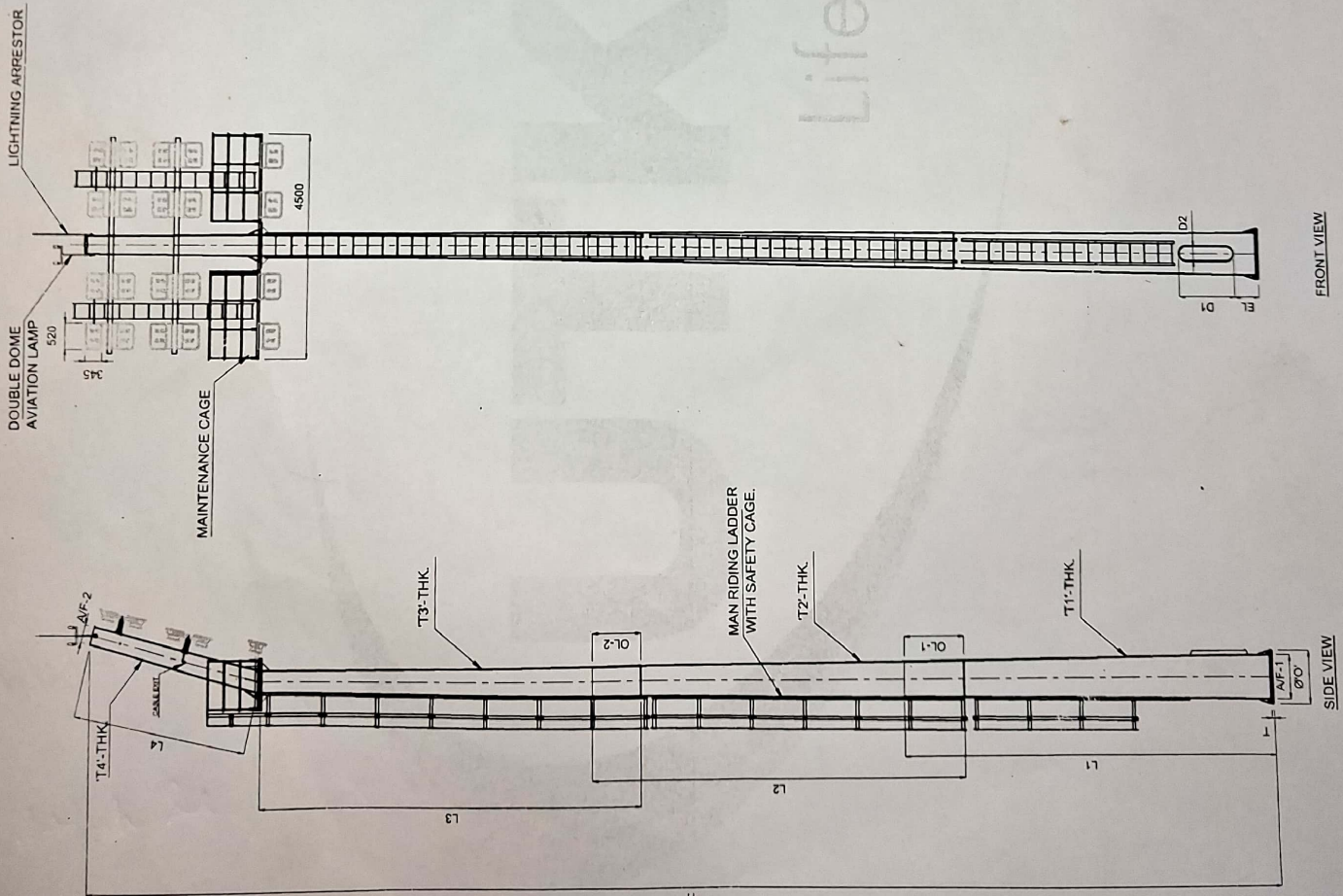
SI No	PARAMETERS	SPECIFIED	RESULT	REMARKS
1	Height of Sections (mm)	9000 mm	9000-9003 mm	Materials are found as per approved TDS .
2	Thickness of shaft section (mm)	- 3 mm	3.0 - 3.02 mm	
3	No. of sides in polygonal sections	8	8	
4	Zinc Coating	65 micron avg	80-140 micron avg	
5	Top Dia (mm)	70 mm	70-71 mm	
6	Bottom Dia (mm)	155 mm	155-156 mm	
7	Size of base Plate (mm)	260X260 mm	260x261 mm	
8	Thickness of Base Plate (mm)	16 mm	16.02 mm	
9	Size of Door Opening	500 mm	502 mm	
10	Height of door	500 mm	500 mm	
11	No. of slot/slot size (mm)	4 nos /28x50 mm	4 nos /28x50 mm	
12	PCD of SLOT (mm)	260 mm	260 mm	
13	Bracket arm length	1500 mm	1504 mm	
14	Bracket arm dia	42.4 mm	42.4 mm	
15	Bracket sleeve length	400 mm	404 mm	
16	Bracket sleeve dia	88.9 mm	88.9	
17	FDN Bolt dia	24 mm	24 mm	
18	FDN Bolt length	750 mm	755 mm	
19	Workmanship		Satisfactory	

SOUMANTYAK DE
OR Utkarsh




P.PRASHANT KUMAR
Deputy Manager
JINDAL POWER LIMITED
(Simhapuri Unit)





FOUNDATION BOLT
WITH NUTS-5 Nos.
& PLAIN WASHER-2 Nos.

TOLERANCE (AS PER BS 5649-2, EN 40-2)

1. AF TOP & BOTTOM $\pm 4\%$
2. LENGTH $\pm 1.2\%$
3. POLE STRAIGHTNESS $\pm 0.3\%$
4. FOR THICKNESS - AS PER IS 1852:1985
5. $\pm 20\text{mm}$ ON UNSPECIFIED DIMENSIONS.

REV.	FOR APPROVAL	DATE	REMARKS.
0	FOR APPROVAL	31/01/26	

FRONT VIEW

SIDE VIEW

TECHNICAL DATA SHEET									
SL NO	1	TOTAL HEIGHT	H	24.5M (21M+HF)					
	2	NO OF SEGMENT		4					
	3	SEGMENT LENGTH		6.125M (7750/1250MM)					
	4	BOTTOM (O.A.F.)	AF1	870					
	5	TOP (O.A.F.)	AF2	350					
	6	OVERLAP	OL	1250/1000					
	7	SHT. THK. OF 1st SEGMENT	T1	8					
	8	SHT. THK. OF 2nd SEGMENT	T2	6					
	9	SHT. THK. OF 3rd SEGMENT	T3	5					
	10	SHT. THK. OF 4th SEGMENT	T4	4					
DOOR & REINFORCEMENT									
	11	DOOR HEIGHT	D1	1200					
	12	DOOR OPENING	D2	300					
	13	DOOR ELEVATION	EL	500					
	14	THK OF REINFORCEMENT	DT	8					
BASE PLATE & FOUNDATION									
	15	OD OF BASE PLATE	O	1150					
	16	THK OF BASE PLATE	T	50					
	17	HOLE P.C.D.	P	1020					
	18	HOLE DIA	d	Ø45					
	19	FDN BOLT DIA	FD	M39					
	20	FDN BOLT LENGTH	FL	1500					
	21	NO. OF FDN BOLT	N	20					
	22	HOLE ON TEMPLATE	ld	Ø42					
LANTERN CARRIAGE									
	23	NO OF X ARM	-	2					
	24	NO OF LUMINAIRES	-	20 (400 W LED)					

NOTES:

1. DESIGN AS PER ILE TR 7
2. BASIC WIND SPEED - 60 M/S_{sc}
3. SECTION IS 20 SIDED POLYGONAL
4. CONSTRUCTION OF MAST SHAFT WITH ONE OR MORE LONGITUDINAL BUTT JOINT DEPENDING ON SHAFT DIAMETER & AVAILABILITY OF RAW MATERIALS.
5. MATERIAL
 - 5.1. FOR MAST SECTION - HOT ROLLED M.S. COIL EQUIVALENT TO BS EN 10025 2019, Gr. S355JR / IS 2062 : 2011, Gr. E350 BR
 - 5.2. FOR BASE PLATE AS PER IS 2062 : 2011, Gr. E250 A / EQUIVALENT
 - 5.3. FOUNDATION BOLT AS PER IS 1307 Gr. 5.8 / EQUIVALENT
6. METAL PROTECTION: HOT DIP GALVANIZED AS PER IS 4759 : 1996 / IS 2629 : 1967 / BS EN ISO 1461 / BS 729 / EQUIVALENT
7. WELDING AS PER AWS D1.1
8. WELDING PENETRATION: 80% MIN.
9. ALL DIMENSIONS ARE IN MM.

UTKARSH INDIA LIMITED (Anjanw Square, 95A, Elliot Road, Kolkata - 700016)		DESCRIPTION: G.A OF 24.5 Mtr. STADIUM MAST	
CLIENT :	JUL/25-26/ENQ/24.5M/STDM-GA-31-01-26	DR. NO.	-
DRAWING NO.	AP	DATE:	31/01/26
DRAWN BY:	AP	CHECKED BY:	AP
CHECKED BY:	AP	DATE:	31/01/26
APPROVED BY:	AP	DATE:	31/01/26
REV.	0	FOR APPROVAL	REMARKS.

Factory:Unit -II,N.H-II,Durgapur Expressway, Gurap, hooghly.
INTERNAL TEST REPORT

CLIENT NAME : JINDAL POWER LIMITED, SIMHAPURI UNIT
SUPPLIER NAME : M/S KABIR ENGINEERING SOLUTION
SUB SUPPLIER NAME : M/S METTALON INDIA **TOTAL QTY :** 50 PC
PO NO : MI/25-26/00151 **ISSUE DATE :** 08.06.2026
PRODUCT : 9 M Octagonal pole with Bracket & FDN **REF NO :** OP/26-27/
 Bolts

SL NO	PARAMETER		SPECIFIED	RESULT
DIMENTION				
A	1	LENGTH OF SEGMENT	9000	9000-9004
	2	THICKNESS OF SEGMENT	3	3.0 TO 3.1
	3	BOTTOM ACROSS FLAT	155	155-156
	4	TOP ACROSS FLAT	70	70-71
	5	DOOR SIZE	500	501
	6	DOOR ELEVATION	500	502
BASE PLATE				
B	1	BASE SIZE	260x260	260X260
	2	THICKNESS OF BASE	16	16.02
	3	SLOT SIZE	28X50	28X50
	4	NO OF SLOT	4	4
	5	PCD OF SLOT	260	260
BRACKET				
C	1	ARM DIA	42.4	42.4
	2	ARM LENGTH	1500	1502
	3	SLEEVE DIA	88.9	88.9
	4	SLEEVE LENGTH	400	402
FOUNDATION BOLT				
D	1	BOLT DIA	24	24
	2	BOLT LENGTH	750	760
GALVANIZING TEST AS PER IS:4759				
E	1	COATING THICKNESS (MICRON)	65µm	79 TO 100 µm
	2	ADHESION TEST & UNIFORMITY	Satisfactory	



All dimentions are in "MM" unless otherwise specified

For Utkarsh India Ltd
 QC Incharge-High Mast & Polygonal Pole

DYE PENETRATING TESTCLIENT NAME : JINDAL POWER LIMITED, SIMHAPURI
UNIT

SUPPLIER NAME : M/S KABIR ENGINEERING SOLUTION

SUB SUPPLIER NAME : M/S METTALON INDIA

TOTAL QTY : 50 PC

PO NO : MI/25-26/00151

ISSUE DATE : 08.06.2026

PRODUCT : 9 M Octagonal pole with Bracket &
FDN Bolts

REF NO : OP/26-27/

LENGTH OF JOB : 9000 MM EACH SEGMENT

SEGMENT : SINGLE WITH LONGITUDINAL WELD

TOTAL NO OF SEGMENT : 50 NOS OF POLES

RESULT : D.P test were carried out as per IS 3658:1999

No Defect Indication Found Hence the result is satisfactory

All dimentions are in "MM" unless otherwise specifiedFor Utkarsh India Ltd
QC Incharge-High Mast & Polygonal Pole

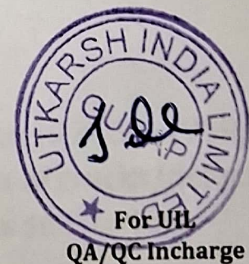
INTERNAL TEST REPORT

Client Name : JINDAL POWER LIMITED, SIMHAPURI UNIT
Supplier Name : M/S KABIR ENGINEERING SOLUTION
Sub supplier Name : M/s METTALON INDIA
PO NO : MI/25-26/00151
Product : 24.5 Mtr Stadium Mast

TOTAL QTY : 4 Set
INT REF NO : HM/25-26/806

SERIAL NO	PARAMETERS	SPECIFIED	RESULTS
DIMENSIONS			
A	1 Total Height (mm)	24500	24511
	2 No of Segment	4	4
	3 Length of segment [BOTTOM]	7750	7752
	4 Length of segment [MIDDLE]	7750	7755
	5 Length of segment [TOP]	7750	7753
	6 Length of segment [EXTENSION TOP]	3500	3503
	7 Thickness of Segment [BOTTOM]	8	8.0
	8 Thickness of Segment [MIDDLE]	6	6.0
	9 Thickness of Segment [TOP]	5	5.0
	10 Thickness of Segment [EXTENSION TOP]	4	4.0
	11 Bottom Across Flat (mm)	870	872
	12 Top Across Flat (mm)	350	352
	13 Door Elevation	500	502
	14 Length of Door (mm)	1200	1202
	15 Width of Door (mm)	300	302
BASE PLATE			
B	1 Size of Base Plate	1150	1150
	2 Thickness of Base Plate	50	50
	3 Dia of Hole	Ø45	Ø45
	4 No. Of Hole	20	20
	7 P C D of Hole	1020	1020
	8 Diameter of foundation bolt	M 39	M 39
	9 Length of foundation bolt	1500	1500
LUMINARY CHANNEL			
c	1 No Of Channel	2	2
Galvanizing Test As Per IS: 4759 (Poles)			
D	1 Average Coating Thickness of segments (Micron)- BOTTOM, MIDDLE, TOP	86 µ	100-125 µ
	3 Average Coating Thickness of segments (Micron)- EX TOP	65 µ	88-105 µ
	4 Adhesion Test & Uniformity	Satisfactory	Satisfactory

Note:- All dimensions are in 'mm' unless otherwise specified



UTKARSH INDIA LIMITED

UTKARSH HIGH MAST & POLYGONAL POLE
(AN ISO 9001:2015 ORGANIZATION)

Factory: Unit -II, N.H-II, Durgapur Expressway, Gurap, Hooghly.

DYE PENETRATING TEST

Client Name : JINDAL POWER LIMITED, SIMHAPURI UNIT

Supplier Name : M/S KABIR ENGINEERING SOLUTION

Sub supplier Name : M/s METTALON INDIA

PO NO : MI/25-26/00151

Items : 24.5 Mtr Stadium Mast

Quantity : 4

Length of Job : 7750 MM & 3500 MM

Segment : 4

Total No. of Seg. : 16

Result : D.P. test were carried out as per IS 3658: 1999,
on all the seam & no indication of cracks/defect,
were found. Hence the result is satisfactory



For UIL
QA/QC Incharge



P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No. : U71200WB2023OPC267169

Laboratory : 221, Kali Temple Road, P.O. : Balitikuri, Howrah - 711113

Business Office : Makardha Road, Sanpur (N), Howrah - 711105

Mob : 9831188211 * E-mail : pntmondal29@gmail.com * Website : https://pplab.in



Sample Received on.: 27.03.2026

Ref. No.: UIL/QA/INSP-GURAP/24-25/01

P.O. No.: Nil

Sample Description: 02 Nos. Test Pieces from 3mm Thk. Sheet (Sl.No.-1)

Specification: IS 2062:2011, Amndt No. 1, Nov 2012 Gr. Designation - E 350, Quality-BR, R.A. 2021

Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

Test Report

Date: 27.03.2026

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-1

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition→

Temperature : 23.0°±2° C

Humidity: 54 ±3 %

CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST

Test Details	Findings	Requirements	Test Methods
C%	0.1840	0.20 Max	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.9648	1.55 Max	
Si%	0.1762	0.45 Max	
S%	0.0118	0.045 Max	
P%	0.0124	0.045 Max	
Cr%	0.0506	-----	
Ni%	0.0502	-----	
N%	0.0086	0.012 Max	
Al%	0.0428	-----	
Cu%	0.0460	-----	
V%	0.0342	-----	
Mo%	0.0278	-----	
CE%	0.3474	0.47 Max	
T.S. (MPa)	556	490 Min.	IS 1608 (Part 1):2022
Y.S. (MPa)	420	350 Min.	
%Elg. on 5.65 $\sqrt{S_0}$	27.20	22.00 Min.	
Bend Test (180°; 2t)	Observation: No crack has been found. Remarks: Satisfactory	Sample shall be bent at room temperature without showing any crack	IS 1599:2019

CE% done on the basis of $C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$

Remarks: The above test results obtained conform to the specified value

Tested sample returned

RP

Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be applied for those tests for which statement of conformity has been claimed by customer.

Laboratory's Decision Rule : "When providing statement of conformity" - Measurement uncertainty is taken into account to determine whether a result passes, fails or if indeterminate such as:

Pass : Test results ± measurement Uncertainty (at 95% Confidence Level) is within specification / Standard's requirements.

Fail : Test results ± Measurement Uncertainty (at 95% Confidence Level) exceeds specification / Standard's requirements.

Indeterminate Test results = Measurement Uncertainty (at 95% Confidence Level) overlaps specification/Standard's requirement.

Disclaimer: The test results related to the particular sample are tested, all tests are based on as per standard test method. Sample are not drawn by us. Any discrepancy in this test report should be brought to 'notice within 15 days from the date of report issued'.

ORIGINAL

- TEST REPORT RELATED TO THE SAMPLE ONLY
- SAMPLE WILL BE CEASED IF NOT TAKEN BACK WITHIN 15 DAYS



For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorised Signatory)

THE STATEMENT OF THE REPORT SHALL NOT BE REPRODUCED IN FULL/PART WITHOUT THE PRIOR WRITTEN CONSENT OF THE ISSUING AUTHORITY

END OF REPORT



Scanned with OKEN Scanner



P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No. : U71200WB2023OPC267169

Laboratory : 221, Kali Temple Road, P.O. : Balitikuri, Howrah - 711113

Business Office : Makardha Road, Sanpur (N), Howrah - 711105

Mob : 9831188211 * E-mail : pntmondal29@gmail.com * Website : https://pplab.in



Sample Received on.: 27.03.2026

Ref. No.: UIL/QA/INSP-GURAP/24-25/01

P.O. No.: Nil

Sample Description: 02 Nos. Test Pieces from 4mm Thk. Sheet (Sl.No.-2)

Specification: IS 2062:2011, Amndt No. 1, Nov 2012 Gr. Designation - E 350, Quality-BR, R.A. 2021

Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

Test Report

Date: 27.03.2026

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-2

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition→		Temperature : 23.0°±2° C	Humidity: 54 ±3 %
CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST			
Test Details	Findings	Requirements	Test Methods
C%	0.1782	0.20 Max	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.7560	1.55 Max	
Si%	0.1948	0.45 Max	
S%	0.0180	0.045 Max	
P%	0.0166	0.045 Max	
Cr%	0.0518	-----	
Ni%	0.0512	-----	
N%	0.0088	0.012 Max	
Al%	0.0460	-----	
Cu%	0.0442	-----	
V%	0.0386	-----	IS 1608 (Part 1):2022
Mo%	0.0548	-----	
CE%	0.3068	0.47 Max	
T.S. (MPa)	542	490 Min.	
Y.S. (MPa)	406	350 Min.	IS 1599:2019
%Elg. on 5.65√S ₀	29.10	22.00 Min.	
Bend Test (180°; 2t)	Observation: No crack has been found. Remarks: Satisfactory	Sample shall be bent at room temperature without showing any crack	

CE% done on the basis of $C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$

Remarks: The above test results obtained conform to the specified value

Tested sample returned
RP

Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be followed for the tests for which statement of conformity has been claimed by customer.

Laboratory's Decision Rule: "When providing statement of conformity" - Measurement uncertainty is taken into account to determine whether a result passes, fails or is indeterminate such as:

Pass: Test results ± measurement Uncertainty (at 95% Confidence Level) is within specification / Standard's requirements.

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Indeterminate Test results = Measurement Uncertainty (at 95% Confidence Level) overlaps specification/Standard's requirement.

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ORIGINAL

- TEST REPORT RELATED TO THE SAMPLE ONLY
- SAMPLE WILL BE CEASED IF NOT TAKEN BACK WITHIN 15 DAYS



For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorised Signatory)

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END OF REPORT



Scanned with OKEN Scanner



P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No. : U71200WB2023OPC267169

Laboratory : 221, Kali Temple Road, P.O. : Balitikuri, Howrah - 711113

Business Office : Makardha Road, Sanpur (N), Howrah - 711105

Mob : 9831188211 * E-mail : pntmondal29@gmail.com * Website : https://pplab.in

DOC No. : PPM/TEST/09



Sample Received on.: 27.03.2026
Ref. No.: UIL/QA/INSP-GURAP/24-25/01
P.O. No.: Nil

Test Report

Date: 27.03.2026

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-5

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

Sample Description: 02 Nos. Test Pieces from 5mm Thk. Plate (Sl.No.-5)
Specification: IS 2062:2011, Amndt No. 1, Nov 2012 Gr. Designation - E 350, Quality-BR, R.A. 2021
Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition →

Temperature : 23.0°±2° C

Humidity: 54 ±3 %

CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST

Test Details	Findings	Requirements	Test Methods
C%	0.1810	0.20 Max	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.8266	1.55 Max	
Si%	0.2148	0.45 Max	
S%	0.0217	0.045 Max	
P%	0.0160	0.045 Max	
Cr%	0.0528	-----	
Ni%	0.0520	-----	
N%	0.0086	0.012 Max	
Al%	0.0442	-----	
Cu%	0.0466	-----	
V%	0.0374	-----	
Mo%	0.0562	-----	
CE%	0.3214	0.47 Max	
T.S. (MPa)	556	490 Min.	IS 1608 (Part 1):2022
Y.S. (MPa)	442	350 Min.	
%Elg. on 5.65√S ₀	28.60	22.00 Min.	
Bend Test (180°; 2t)	Observation: No crack has been found. Remarks: Satisfactory	Sample shall be bent at room temperature without showing any crack	IS 1599:2019

CE% done on the basis of $C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$

Remarks: The above test results obtained conform to the specified value

Tested sample returned
RP



Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be applied for those tests for which statement of conformity has been claimed by customer.

Laboratory's Decision Rule: "When providing statement of conformity" - Measurement uncertainty is taken into account to determine whether a result passes, fails or is indeterminate such as:

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Fail : Test results ± Measurement Uncertainty (at 95% Confidence Level) exceeds specification / Standard's requirements.

Indeterminate Test results = Measurement Uncertainty (at 95% Confidence Level) overlaps specification/Standard's requirement.

Disclaimer: The test results related to the particular sample are tested, all tests are based on as per standard test method. Sample are not drawn by us. Any discrepancy in this test report should be brought to 'notice within 15 days from the date of report issued'.

ORIGINAL

- TEST REPORT RELATED TO THE SAMPLE ONLY
- SAMPLE WILL BE CEASED IF NOT TAKEN BACK WITHIN 15 DAYS



For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorised Signatory)

THE STATEMENT OF THE REPORT SHALL NOT BE REPRODUCED IN FULL/PART WITHOUT THE PRIOR WRITTEN CONSENT OF THE ISSUING AUTHORITY

END OF REPORT



P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No.: U71200WB2023OPC267169

Laboratory : 221, Kali Temple Road, P.O. : Balitikuri, Howrah - 711113

Business Office : Makardha Road, Sanpur (N), Howrah - 711105

Mob : 9831188211 * E-mail : pntmondal29@gmail.com * Website : https://pplab.in



Sample Received on.: 27.03.2026
Ref. No.: UIL/QA/INSP-GURAP/24-25/01
P.O. No.: Nil

Test Report

Date: 27.03.2026

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-6

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

Sample Description: 02 Nos. Test Pieces from 6mm Thk. Plate (Sl.No.-6)
Specification: IS 2062:2011, Amndt No. 1, Nov 2012 Gr. Designation - E 350, Quality-BR, R.A. 2021
Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition→	Temperature : 23.0±2° C	Humidity: 54 ±3 %
--------------------------	-------------------------	-------------------

CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST

Test Details	Findings	Requirements	Test Methods
C%	0.1760	0.20 Max	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.6842	1.55 Max	
Si%	0.1978	0.45 Max	
S%	0.0216	0.045 Max	
P%	0.0178	0.045 Max	
Cr%	0.0502	-----	
Ni%	0.0514	-----	
N%	0.0088	0.012 Max	
Al%	0.0460	-----	
Cu%	0.0472	-----	
V%	0.0376	-----	
Mo%	0.0570	-----	
CE%	0.2900	0.47 Max	
T.S. (MPa)	562	490 Min.	IS 1608 (Part 1):2022
Y.S. (MPa)	418	350 Min.	
%Elg. on 5.65√S ₀	26.20	22.00 Min.	IS 1599:2019
Bend Test (180°; 2t)	Observation: No crack has been found. Remarks: Satisfactory	Sample shall be bent at room temperature without showing any crack	

CE% done on the basis of $C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$

Remarks: The above test results obtained conform to the specified value

Tested sample returned
RP

Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be applied for those tests for which statement of conformity has been claimed by customer.

Laboratory's Decision Rule: "When providing statement of conformity" - Measurement uncertainty is taken into account to determine whether a result passes, fails or is indeterminate such as:
Pass: Test results ± measurement Uncertainty (at 95% Confidence Level) is within specification / Standard's requirements.
Fail: Test results ± Measurement Uncertainty (at 95% Confidence Level) exceeds specification / Standard's requirements.
Indeterminate Test results = Measurement Uncertainty (at 95% Confidence Level) overlaps specification / Standard's requirement.

Disclaimer: The test results related to the particular sample are tested, all tests are based on as per standard test method. Sample was not shown by us. Any discrepancy in this test report should be brought to notice within 15 days from the date of report issued.

ORIGINAL

- TEST REPORT RELATED TO THE SAMPLE ONLY
- SAMPLE WILL BE CEASED IF NOT TAKEN BACK WITHIN 15 DAYS



For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorized Signatory)

THE STATEMENT OF THE REPORT SHALL NOT BE REPRODUCED IN FULL/PART WITHOUT THE PRIOR WRITTEN CONSENT OF THE ISSUING AUTHORITY

END OF REPORT



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P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No.: U71200WB2023OPC267169

Laboratory: 221, Kali Temple Road, P.O.: Balitikuri, Howrah - 711113

Business Office: Makardha Road, Sanpur (N), Howrah - 711105

Mob: 9831188211 * E-mail: pntmondal29@gmail.com * Website: https://pplab.in



Sample Received on.: 27.03.2026

Ref. No.: UIL/QA/INSP-GURAP/24-25/01

P.O. No.: Nil

Sample Description: 02 Nos. Test Pieces from 8mm Thk. Plate (Sl.No.-7)

Specification: IS 2062:2011, Amndt No. 1, Nov 2012 Gr. Designation - E 350, Quality-BR, R.A. 2021

Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

Test Report

Date: 27.03.2026

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-7

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition→	Temperature: 23.0±2° C	Humidity: 54 ±3 %
--------------------------	------------------------	-------------------

CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST

Test Details	Findings	Requirements	Test Methods
C%	0.1814	0.20 Max	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.7066	1.55 Max	
Si%	0.2142	0.45 Max	
S%	0.0228	0.045 Max	
P%	0.0242	0.045 Max	
Cr%	0.0540	-----	
Ni%	0.0526	-----	
N%	0.0084	0.012 Max	
Al%	0.0418	-----	
Cu%	0.0460	-----	
V%	0.0328	-----	
Mo%	0.0520	-----	
CE%	0.3018	0.47 Max	IS 1608 (Part 1):2022
T.S. (MPa)	558	490 Min.	
Y.S. (MPa)	406	350 Min.	
%Elg. on 5.65√S ₀	29.10	22.00 Min.	IS 1599:2019
Bend Test (180°; 2t)	<u>Observation:</u> No crack has been found. <u>Remarks:</u> Satisfactory	Sample shall be bent at room temperature without showing any crack	

CE% done on the basis of $C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$

Remarks: The above test results obtained conform to the specified value

Tested sample returned

RP

Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be applied for those tests for which statement of conformity has been claimed by customer.

Laboratory's Decision Rule: "When providing statement of conformity" - Measurement uncertainty is taken into account to determine whether a result passes, fails or is indeterminate such as:

Pass: Test results ± measurement Uncertainty (at 95% Confidence Level) is within specification / Standard's requirements.

Fail: Test results ± measurement Uncertainty (at 95% Confidence Level) exceeds specification / Standard's requirements.

Indeterminate Test results = Measurement Uncertainty (at 95% Confidence Level) overlaps specification/Standard's requirement.

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ORIGINAL

- TEST REPORT RELATED TO THE SAMPLE ONLY
- SAMPLE WILL BE CEASED IF NOT TAKEN BACK WITHIN 15 DAYS



For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorised Signatory)

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END OF REPORT





TC-15552

P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No. : U71200WB2023OPC267169

Laboratory : 221, Kali Temple Road, P.O. : Balitikuri, Howrah - 711113

Business Office : Makardha Road, Sanpur (N), Howrah - 711105

Mob : 9831188211 * E-mail : pntmondal29@gmail.com * Website : https://pplab.in

DOC No. PPML/TEST/08



Sample Received on.: 27.03.2026

Ref. No.: UIL/QA/INSP-GURAP/24-25/01

P.O. No.: Nil

Sample Description: 02 Nos. Test Pieces from 16mm Thk. Plate (Sl.No.-11)

Specification: IS 2062:2011, Amndt No. 1, Nov 2012 Gr. Designation - E 250, Quality-A, R.A. 2021

Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

Test Report

Date: 27.03.2026

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-11

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition→

Temperature : 24.0±2° C

Humidity: 56 ±3 %

CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST

Test Details	Findings	Requirements	Test Methods
C%	0.1978	0.23 Max	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.8044	1.50 Max	
Si%	0.2260	0.40 Max	
S%	0.0178	0.045 Max	
P%	0.0186	0.045 Max	
Cr%	0.0518	-----	
Ni%	0.0552	-----	
N%	0.0084	0.012 Max	
Al%	0.0428	-----	
Cu%	0.0446	-----	
V%	0.0478	-----	
Mo%	0.0420	-----	
CE%	0.3352	0.42 Max.	
T.S. (MPa)	476	410 Min.	IS 1608 (Part 1):2022
Y.S. (MPa)	288	250 Min.	
%Elg. on 5.65√S ₀	30.60	23.00 Min.	IS 1599:2019
Bend Test (180°; 2t)	Observation: No crack has been found. Remarks: Satisfactory	Sample shall be bent at room temperature without showing any crack	

CE% done on the basis of $C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$

Remarks: The above test results obtained conform to the specified value

Tested sample returned

RP



Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be applied for those tests for which statement of conformity has been claimed by customer.

Laboratory's Decision Rule: "When providing statement of conformity" - Measurement uncertainty is taken into account to determine whether a result passes, fails or is indeterminate such as:

Pass: Test results ± measurement Uncertainty (at 95% Confidence Level) is within specification / Standard's requirements

Fail: Test results ± Measurement Uncertainty (at 95% Confidence Level) exceeds specification / Standard's requirements

Indeterminate Test results = Measurement Uncertainty (at 95% Confidence Level) overlaps specification/Standard's requirement

Disclaimer: The test results related to the particular sample are tested, all tests are based on as per standard test method. Sample are not drawn by us. Any discrepancy in this test report should be brought to notice within 15 days from the date of report issued.

ORIGINAL

- TEST REPORT RELATED TO THE SAMPLE ONLY
- SAMPLE WILL BE CEASED IF NOT TAKEN BACK WITHIN 15 DAYS



For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorized Signatory)

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END OF REPORT



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P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No. : U71200WB2023OPC267169

Laboratory : 221, Kali Temple Road, P.O. : Balitikuri, Howrah - 711113

Business Office : Makardha Road, Sanpur (N), Howrah - 711105

Mob : 9831188211 * E-mail : pntmondal29@gmail.com * Website : https://ppiab.in

DOC No. PPMU/TEST/08



Sample Received on.: 27.03.2026

Ref. No.: UIL/QA/INSP-GURAP/24-25/01

P.O. No.: Nil

Sample Description: 02 Nos. Test Pieces from 50mm Thk. Plate (Sl.No.-50)

Specification: IS 2062:2011, Amndt No. 1, Nov 2012 Gr. Designation - E 250, Quality-A, R.A. 2021

Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

Test Report

Date: 27.03.2026

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-50

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition→

Temperature : 24.0±2° C

Humidity: 56 ±3 %

CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST

Test Details	Findings	Requirements	Test Methods
C%	0.1942	0.23 Max	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.7840	1.50 Max	
Si%	0.2066	0.40 Max	
S%	0.0204	0.045 Max	
P%	0.0216	0.045 Max	
Cr%	0.0518	-----	
Ni%	0.0502	-----	
N%	0.0086	0.012 Max	
Al%	0.0418	-----	
Cu%	0.0420	-----	
V%	0.0416	-----	
Mo%	0.0436	-----	
CE%	0.3274	0.42 Max.	
T.S. (MPa)	480	410 Min.	IS 1608 (Part 1):2022
Y.S. (MPa)	316	230 Min.	
%Elg. on 5.65√S ₀	28.20	23.00 Min.	IS 1599:2019
Bend Test (180°; 3t)	<u>Observation:</u> No crack has been found. <u>Remarks:</u> Satisfactory	Sample shall be bent at room temperature without showing any crack	

CE% done on the basis of $C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$

Remarks: The above test results obtained conform to the specified value

Tested sample returned

RP

Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be applied for those tests for which statement of conformity has been claimed by customer.

Laboratory's Decision Rule: "When providing statement of conformity" - Measurement uncertainty is taken into account to determine whether a result passes, fails or is indeterminate such as:

Pass: Test results ± measurement Uncertainty (at 95% Confidence Level) is within specification / Standard's requirements.

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Indeterminate Test results = Measurement Uncertainty (at 95% Confidence Level) overlaps specification/Standard's requirement.

Disclaimer: The test results related to the particular sample are tested, all tests are based on as per standard test method. Sample are not drawn by us. Any discrepancy in this test report should be brought to notice within 15 days from the date of report issued.

ORIGINAL

- TEST REPORT RELATED TO THE SAMPLE ONLY
- SAMPLE WILL BE CEASED IF NOT TAKEN BACK WITHIN 15 DAYS



For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorised Signatory)

THE STATEMENT OF THE REPORT SHALL NOT BE REPRODUCED IN FULL/PART WITHOUT THE PRIOR WRITTEN CONSENT OF THE ISSUING AUTHORITY

END OF REPORT



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TC-15552

P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No.: U71200WB2023OPC267169

Laboratory: 221, Kali Temple Road, P.O.: Balitkuri, Howrah - 711113

Business Office: Makardha Road, Sanpur (N), Howrah - 711105

Mob: 9831188211 * E-mail: pntmondal29@gmail.com * Website: https://pplab.in



Test Report

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-64

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

Sample Received on.: 27.03.2026

Ref. No.: UIL/QA/INSP-GURAP/24-25/01

P.O. No.: Nil

Date: 27.03.2026

Sample Description: 02 Nos. Test Pieces from 24mmØ Round. (Sl.No.-64)

Specification: BS: 970/1955, EN-8. (Condition-Normalised).

Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition →

Temperature: 24.0°±2° C

Humidity: 56 ±3 %

CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST

Test Details	Findings	Requirements	Test Methods
C%	0.4026	0.35-0.45	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.7248	0.60-1.00	
Si%	0.2140	0.05-0.35	
S%	0.0314	0.060 Max	
P%	0.0285	0.060 Max	
Cr%	0.0518	-----	
Ni%	0.0526	-----	
N%	0.0082	-----	
Al%	0.0416	-----	
Cu%	0.0448	-----	
V%	0.0440	-----	IS 1608 (Part 1):2022
Mo%	0.0460	-----	
T.S. (tons/sq.in)	39.20	35 (Min)	
Y.S. (tons/sq.in)	21.60	18 (Min)	IS:1500/ Part-1/2019
% of Elongation on 4√So	28.60	20.0 (Min)	
Hardness Value [at 10/3000/15Sec HBW(Avg.)]	184 (Avg.)	152-207	

$$CE\% \text{ done on the basis of } C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$$

Remarks: The above test results obtained conform to the specified value

Tested sample returned

R.D.



Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be applied for those tests for which statement of conformity has been claimed by customer.

Laboratory's Decision Rule: "When providing statement of conformity" - Measurement uncertainty is taken into account to determine whether a result passes, fails or is indeterminate such as:

Pass: Test results ± measurement Uncertainty (at 95% Confidence Level) is within specification / Standard's requirements.

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ORIGINAL

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For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorised Signatory)

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END OF REPORT





P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

NABL Accredited Laboratory (For Chemical & Mechanical)

CIN No. : UT1200WB2023OPC267169

Laboratory : 221, Kali Temple Road, P.O. : Balitikuri, Howrah - 711113

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Mob : 9831188211 * E-mail : pntmondal29@gmail.com * Website : https://pplab.in

DOC No : PPM/LTEST/08



Test Report

ULR TC No.: TC1555226000013165F

TC No.: CP/13165-68

Date of Analysis: 02.04.2026

Report Date: 03.04.2026

Stamped: xxx

Sample Received on: 27.03.2026

Ref. No.: UIL/QA/INSP-GURAP/24-25/01

Date: 27.03.2026

P.O. No.: Nil

Sample Description: 02 Nos. Test Pieces from 39mmØ Round. (Sl.No.-68)

Specification: BS: 970/1955, EN-8. (Condition-Normalised).

Issued to: M/s. Utkarsh India Limited / NH-2, Gurap, Durgapur Expressway, Hooghly-712303.

This is to certify that the above sample(s) has/have been tested within the following results

Environmental Condition→	Temperature : 24.0±2° C	Humidity: 56 ±3 %
--------------------------	-------------------------	-------------------

CHEMICAL ANALYSIS BY SPECTRO & MECHANICAL TEST

Test Details	Findings	Requirements	Test Methods
C%	0.3912	0.35-0.45	IS:8811/98, RA-2018 & IS:228/Part-23
Mn%	0.7240	0.60-1.00	
Si%	0.2142	0.05-0.35	
S%	0.0160	0.060 Max	
P%	0.0224	0.060 Max	
Cr%	0.0512	-----	
Ni%	0.0520	-----	
N%	0.0088	-----	
Al%	0.0426	-----	
Cu%	0.0448	-----	
V%	0.0460	-----	IS 1608 (Part 1):2022
Mo%	0.0422	-----	
T.S. (tons/sq.in)	44.60	35 (Min)	
Y.S. (tons/sq.in)	20.80	18 (Min)	IS:1500/ Part-1/2019
% of Elongation on 4√So	26.20	20.0 (Min)	
Hardness Value [at 10/3000/15Sec HBW(Avg.)]	187 (Avg.)	152-207	

CE% done on the basis of $C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$

Remarks: The above test results obtained conform to the specified value

Tested sample returned

RP



Remarks: When statement of Conformity required by customer to a specification or standard for the test then laboratory's decision rule will be applied for those tests for which statement of conformity has been claimed by customer.

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ORIGINAL

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- SAMPLE WILL BE CEASED IF NOT TAKEN BACK WITHIN 15 DAYS



For P.P. METALLURGICAL LABORATORY (OPC) PVT. LTD.

P. MONDAL
Quality Manager
(Authorised Signatory)

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END OF REPORT

TEST CERTIFICATE

IS 1161:2014



CM/L-5500108806

Format no.-F/08/17/R-02

Product : **Mild Steel Black Tube (ERW)**

To M/S: **GURAP UNIT**

A/C OF:

Conform to: **IS 1161:2014**

T.C. NO.

Invoice No.

P.O/D.O No.

TUBE/26-27/61/1141

Date: 25.04.2026

Date:

Date:

We certify that the materials described below are fully conforms to **IS 1161:2014** Chemical composition & Physical properties of the product as tested in accordance with scheme of testing and inspection. Contained in the BIS Certification marks L/C No. **CM/L- 5500108806** are as indicated in your order (Please refer to **IS 1161:2014** for details of specification requirements)

SL. No.	Description	Lot No.	Quantity (Pcs, Mtr.MT)	Chemical Composition				Mechanical Properties			Flattening /Bend Test	Draft Expn	Galvanizing Coating Test		Remarks
				C%	Mn%	P%	S%	Yst (Mpa)	UTS (Mpa)	Elong% (Min) 17			Mass of Zinc gms/m ²	Dip Test 5X1 min	
Specified			MT	(Max) 0.16	(Max) 1.20	(Max) 0.04	(Max) 0.04	(Min) 240	(Min) 410	(Min) 17					
1	ERW NB 32MM 3.20MM Yst 240 BP	YJ17A	12.00	0.13	0.80	0.020	0.014	312	442	28	OK	N/A	N/A	N/A	OK
2	ERW NB 40MM 3.20MM Yst 240 BP	YK06A	12.00	0.13	0.86	0.024	0.010	317	448	28	OK	N/A	N/A	N/A	OK
3	ERW NB 50MM 3.20MM Yst 240 BP	YK08A	11.00	0.15	0.85	0.028	0.009	328	456	27	OK	N/A	N/A	N/A	OK
4	ERW NB 80MM 3.20MM Yst 240 BP	YK01A	11.00	0.14	0.86	0.029	0.011	338	440	30	OK	N/A	N/A	N/A	OK
5	ERW NB 100MM 3.20MM Yst 240 BP	YK01B	10.50	0.15	0.87	0.026	0.012	328	462	30	OK	N/A	N/A	N/A	OK
5															
7															
8															

It is certified that each steel tube supplied conforms to standard dimensions and mass with acceptable tolerance. We also declare that our product have been manufactured from IS marked H.R. Coil/Skelp only



UTKARSH INDIA LIMITED

Regd. Office : Arrijavv Square, 4th Floor, 95A, Elliot Road Kolkata-700016
E-mail : info@utkarshindia.in Website : www.utkarshindia.com
Factory : N.H.-2, Durgapur Expressway, P.O.-Gurap, Hooghly(W.B.), India-712303

VEHICLE No.:

PLEASE VERIFY THE MARK
FROM DATE OF DESPATCH



UTKARSH AND

BANSAL

EMBOSSED ON OUR PIPES AT EVERY METER AND OUR MATERIALS ARE GUARANTEED FOR 12 MONTHS

UTKARSH INDIA LIMITED



CALIBRATION CERTIFICATE

DESCRIPTION OF INSTRUMENT		Certificate No:		TMSC/25/M-17308
NAME :	Vernier Caliper	ULR No.	CC249825000030858F	
RANGE:	0 to 300 mm	Certificate issue Date:	18-06-2025	
LEAST COUNT:	0.02 mm	Date of Calibration:	17-06-2025	
MAKE	Mituyoyo	Suggested Calibration Due On:	16-06-2026	
SERIAL NO:	20153184	Job Code No:	TMSC/JUN/14/01	
LOCATION:	HM	Customer's Details M/s. Utkarsh India Limited. Add: N.H. -2, Durgapur Express Way, P.O: Gurap, Hooghly-712303.		
I.D NO:	VC-01			
VISUAL INSPECTION:	OK			
ACCURACY:	N/A			
DISCIPLINE/GROUP	Mechanical-Dimension (Basic Measuring Instrument, Gauge etc.)			
CALIBRATED AT	TMSC LAB			
Environmental Condition	Temperature	20±2°C	Calibration Reference	IS 16491(PART-1)2016
	Relative Humidity	50±10%	Calibration Procedure	TMSC/MSD/WI-06
STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY. MASTER (S) USED FOR CALIBRATION:-				
Instrument Name	Certificate No	Valid Upto	Calibrated By	
Slip Gauge Set (Grade "0")	SG 3947	19.08.2025	NABL LAB CC-2102	
Master Setting Plug Gauge	TI/B/PPG/011/24	12.02.2026	NABL LAB CC-2660	
Master Setting Ring Gauge	TI/A/PRG/004/24	29.01.2026	NABL LAB CC-2660	
CALIBRATION RESULTS				
A) Parallelism Error: (In between extreme top & bottom portion of measuring face)				
Position	1) External Measuring Face	2) Internal Measuring Face		
	Observed Error (µm)	Observed Error (µm)		
i) At the tip of chiselled portion	6.00	8.00		
ii) At the middle of chiselled portion	6.00	8.00		
ii) At the middle of jaw	6.00	8.00		
B) Scale Reading: (Using middle of chiselled portion of the external measuring face)				
SL. No.	Standard Value (mm)	Avg. Observed DUC value (mm)	Measurement Uncertainty 95% C.L k=2. (± µm)	
1	10.04	10.028	26	
2	20.08	20.068		
3	51.10	51.088		
4	100.00	99.988		
5	150.00	149.988		
6	200.00	199.984		
7	250.00	249.984		
8	280.00	279.984		
C) Scale Reading: (Using middle of chiselled portion of the internal measuring face)				
SL. No.	Standard Value (mm)	Avg. Observed DUC value (mm)	Measurement Uncertainty 95% C.L k=2. (± µm)	
1	20.00	19.996	15	
D) Scale Reading: (Using depth measuring portion)				
SL. No.	Standard Value (mm)	Avg. Observed DUC value (mm)	Measurement Uncertainty 95% C.L k=2. (± µm)	
1	200.00	199.996	15	
Repeatability of Partial Surface Contact Error, R		0.02 mm	Line Contact Error, L	0.00 mm
Scale Shift Error, S		0.03 mm	Full Surface Contact Error, J	0.01 mm

REMARKS : The DUC (DEVICE UNDER CALIBRATION) has been calibrated for its range.

Note : 1) This certificate refers only to the particular item (s) submitted for calibration.

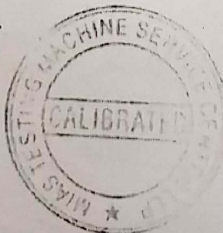
2) This certificate refers to the values obtained at the time of calibration.

3) This certificate shall not be reproduced, except in full, unless written permission has been obtained from CEO/TMSC.

4) 5 Nos. measurements were made for each reading.

**** End of Certificate****

S. Singh
Calibrated By
(Calibration Engineer)
SADHAN SINGH



Approved By
(Head Of The Laboratory)
BHASKAR CHATTERJEE

Contact No : 9038033905, 9831233902

Email : support@testingmachine.org, testingmachine3@gmail.com



Calibration Laboratory
SINCE-1977

MIAS TESTING MACHINE SERVICE CENTRE LLP

ACCREDITED BY NABL

BALITIKURI SHIBTALA INDUSTRIAL ESTATE, HOWRAH - 711113, WB, INDIA

Website - www.testingmachine.org

FORM No. : TMSC/MSD/FORM-08



CC-2498

CALIBRATION CERTIFICATE

DESCRIPTION OF INSTRUMENT		Certificate No:		TMSC/25/M-17310	
NAME :	Measuring Tape	ULR No.	CC249825000030860F		
RANGE:	0 to 5000 mm	Certificate issue Date:	18-06-2025		
LEAST COUNT:	1 mm	Date of Calibration:	17-06-2025		
MAKE:	Freemans	Suggested Calibration Due On:	16-06-2026		
SERIAL NO:	---	Job Code No:	TMSC/JUN/14/01		
LOCATION:	HM	Customer's Details M/s. Utkarsh India Limited. Add: N.H. -2, Durgapur Express Way, P.O: Gurap, Hooghly-712303.			
I.D NO:	UIL/HM/ST5M				
VISUAL INSPECTION:	OK				
ACCURACY	N/A				
DISCIPLINE/GROUP	Mechanical-Dimension (Basic Measuring Instrument, Gauge etc.)				
CALIBRATED AT	TMSC LAB				
Environmental Condition	Temperature	20±2°C	Calibration Reference	IS: 1269 (Part 2)	
	Relative Humidity	50±10%	Calibration Procedure	TMSC/MSD/WI-04	
STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.					
MASTER (S) USED FOR CALIBRATION:-					
Instrument Name		Certificate No	Valid Upto	Calibrated By	
Tape & Scale Measuring Machine		CH/24/2109D - 01	20.09.2025	NABL LAB CC-2304	
Calibration Results					
Sr. No.	Nominal value on UUC (mm)	Average Std. Value of (mm)	Error (mm)	Uncertainty of measurement at 95% confidence level with k=2 (±) (µm) 254.24 X √L/1000 µm	
1	20	20.070	-0.070		
2	100	100.120	-0.120		
3	500	500.088	-0.088		
4	1000	1000.087	-0.087		
5	3000	3000.105	-0.105		
6	5000	5000.150	-0.150		

REMARKS : The UUC (UNIT UNDER CALIBRATION) has been calibrated for its range.

Note : 1) This certificate refers only to the particular item (s) submitted for calibration.

2) This certificate refers to the values obtained at the time of calibration.

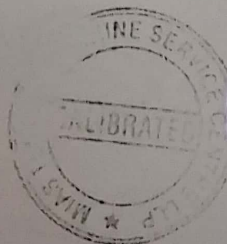
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4) 5 Nos. measurements were made for each reading.

**** End of Certificate****

S. Singh
Calibrated By

(Calibration Engineer)
SADHAN SINGH



Bhaskar Chatterjee
Approved By
(Head Of The Laboratory)
BHASKAR CHATTERJEE

Contact No : 9038033905, 9831233902

Email : support@testingmachine.org, testingmachine3@gmail.com



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Calibration Laboratory

SINCE-1977

MIAS TESTING MACHINE SERVICE CENTRE LLP

ACCREDITED BY NABL

BALITIKURI SHIBTALA INDUSTRIAL ESTATE, HOWRAH - 711113, WB, INDIA

Website - www.testingmachine.org

FORM No. TMSC/MSD/FIM-08



CC-2498

CALIBRATION CERTIFICATE

DESCRIPTION OF INSTRUMENT		Certificate No:		TMSC/25/M-17309
NAME :	Steel Tape	ULR No.	CC249825000030859F	
RANGE:	0 to 15000 mm	Certificate issue Date:	18-06-2025	
LEAST COUNT:	1 mm	Date of Calibration:	17-06-2025	
MAKE:	Freemans	Suggested Calibration Due On:	16-06-2026	
SERIAL NO:	---	Job Code No:	TMSC/JUN/14/01	
LOCATION:	HM	Customer's Details M/s. Utkarsh India Limited. Add: N.H. -2, Durgapur Express Way, P.O: Gurap, Hooghly-712303.		
I.D NO:	UIL/HM/ST15M			
VISUAL INSPECTION:	OK			
ACCURACY	N/A			
DISCIPLINE/GROUP	Mechanical-Dimension (Basic Measuring Instrument, Gauge etc.)			
CALIBRATED AT	TMSC LAB			
Environmental Condition	Temperature	20±2°C	Calibration Reference	IS: 1269 (Part 2)
	Relative Humidity	50±10%	Calibration Procedure	TMSC/MSD/WI-20
STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY.				
MASTER (S) USED FOR CALIBRATION:-				
Instrument Name		Certificate No	Valid Upto	Calibrated By
Tape & Scale Measuring Machine		CH/24/2109D - 01	20.09.2025	NABL LAB CC-2304
Calibration Results				
Sr. No.	Nominal value on UUC (mm)	Average Std. value of (mm)	Error (mm)	Uncertainty of measurement at 95% confidence level with k=2 (±) (µm) 151.31 X VL/1000 µm
1	100	100.040	-0.040	
2	500	500.067	-0.067	
3	1000	1000.104	-0.104	
4	5000	5000.124	-0.124	
5	10000	10000.193	-0.193	
6	15000	15000.260	-0.260	

REMARKS : The UUC (UNIT UNDER CALIBRATION) has been calibrated for its range.

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2) This certificate refers to the values obtained at the time of calibration.

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4) 5 Nos. measurements were made for each reading.

****END OF CERTIFICATE****

S. Singh
Calibrated By
(Calibration Engineer)
SADHAN SINGH



Bhaskar Chatterjee
Approved By
(Head Of The Laboratory)
BHASKAR CHATTERJEE

Contact No : 9038033905, 9831233902

Email : support@testingmachine.org, testingmachine3@gmail.com



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CALIBRATION CERTIFICATE

DESCRIPTION OF INSTRUMENT		Certificate No:	
NAME :	Dig. Coating Thickness Gauge	ULR No.	TMSC/25/M-17307
RANGE:	0 to 1250 μ m	Certificate issue Date:	CC249825000030857F
LEAST COUNT:	0.1 μ m	Date of Calibration:	18-06-2025
MAKE	Fujitech	Suggested Calibration Due On:	17-06-2025
SERIAL NO:	N904384	Job Code No:	16-06-2026
LOCATION:	HM	Customer's Details	
I.D NO:	UIL/HM/CTG-01	M/s. Utkarsh India Limited. Add: N.H. -2, Durgapur Express Way, P.O: Gurap, Hooghly-712303.	
VISUAL INSPECTION:	OK		
ACCURACY	N/A		
DISCIPLINE/GROUP	Mechanical-Dimension (Basic Measuring Instrument, Gauge etc.)		
CALIBRATED AT	TMSC LAB		
Environmental Condition	Temperature	20 $\pm$ 2 $^{\circ}$ C	Calibration Reference
	Relative Humidity	50 $\pm$ 10%	Calibration Procedure
STANDARDS USED FOR CALIBRATION ARE TRACEABLE TO NATIONAL OR INTERNATIONAL STANDARDS THROUGH NABL ACCREDITED LABORATORY. MASTER (S) USED FOR CALIBRATION:-			
Instrument Name	Certificate No	Valid Upto	Calibrated By
Test Foils	QSI/1937/24/09	19.09.2025	NABL LAB CC-2717
Calibration Results			
Set as zero at 0.00 μ m			
Sr. No.	Nominal value on Std. (μ m)	Average value of UUC (μ m)	Uncertainty of measurement at 95% confidence with k=2 ($\pm$) (μ m)
1	10	9.94	2.55
2	25	24.92	
3	52	51.86	
4	125	124.80	
5	254	253.80	
6	547	546.80	
7	698	697.40	
8	940	939.20	

REMARKS : The UUC (UNIT UNDER CALIBRATION) has been calibrated for its range.

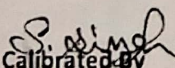
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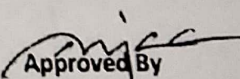
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4) 5 Nos. measurements were made for each reading.

**** End of Certificate****


 (Calibration Engineer)
SADHAN SINGH





 Approved By
 (Head Of The Laboratory)
BHASKAR CHATTERJEE

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