MILL TEST CERTIFICATE

TO	**T.C.No :**
M/S. B.B.PATIL CIVIL CONTRACTS	**Date : 31.07.2025**
AT POST : HOSUR , JAL : HUKKERI , DIST:	**Coil Heat No : PM015056B**
BELGAVI - KARNATAKA - 591221	**Coil T.C No : HR/24-25/003702637**
	Coil T.C Date : 26.08.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241012/D	30 Nos	458.5	457.2	5.01	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.160	0.830	0.004	0.015	359	479	34	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.R.G.T
Senior Head Inspector Q.A

In-Charge/ Manager Q.A.

MKK Metal Sections (P) Ltd. RANIPET-TN. Pin:632405

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No :
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 31.07.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : PM015158B
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003709640
	Coil T.C Date : 29.08.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241012/D	30 Nos	458.1	456.8	5.01	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.150	0.820	0.006	0.016	313	442	36	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.B.T

Senior Head Inspector Q.A

In-Charge/ Manager Q.A.

MKK Metal Sections (P) Ltd. RANIPET-T.N. Ph:632405

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No :
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 31.07.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : PM004861A
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003708675
	Coil T.C Date : 29.08.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241012/D	27 Nos	458.3	457.1	5.01	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.150	0.840	0.008	0.012	350	483	34	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.P.C.T

Senior Head Inspector Q.A

In-Charge/ Manager Q.A.

M/s Metal Sections (P) Ltd. RANIPET (TN) Pin 632403

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No :
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 01.08.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : PM004912A
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003713816
	Coil T.C Date : 31.08.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241012/D	27 Nos	458.7	457.5	5.01	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.150	0.830	0.008	0.017	305	450	34	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.B.T

Senior Head Inspector Q.A

In-Charge/ Manager Q.A.

MKK Metal Sections (P) LTD. RANIPET.T.N. Pin:632403

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories), Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No :
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 30.07.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : PM015149B
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003708973
	Coil T.C Date : 29.08.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241012/D	30 Nos	457.9	456.7	5.01	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.150	0.820	0.007	0.016	341	480	33	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.P.C.T

Senior Head Inspector Q.A

MKK Metal Sections (P) Ltd. RANIPET-TN

In-Charge/ Manager Q.A.

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No :
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 30.07.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : PM004855A
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003709886
	Coil T.C Date : 30.08.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241012/D	30 Nos	458.2	457.0	5.01	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.150	0.820	0.005	0.015	369	510	31	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.P.G.

Senior Head Inspector Q.A

In-Charge/ Manager Q.A.

MKK Metal Sections (P) Ltd. PANIPAT-T.N. Pin-632405

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No :
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 30.07.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : PM014994B
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003703272
	Coil T.C Date : 26.08.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241011/N	30 Nos	458.3	457.0	5.01	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.150	0.820	0.006	0.016	319	451	33	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.B.

Senior Head Inspector Q.A

In-Charge/ Manager Q.A.

MKK Metal Sections (P) Ltd. RANIPET-T.N. Pin:632403

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No : MKK/03203
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 29.07.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : D981167
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003761458
	Coil T.C Date : 27.09.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241011/N	27 Nos	458.1	456.8	5.00	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.147	0.480	0.008	0.019	359	483	31	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.P.G.

Senior Head Inspector Q.A

In-Charge/ Manager Q.A.

MKK Metal Sections (P) Ltd. RANIPET-TN. Pin:632403

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No :
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 30.07.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : F981172
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003764051
	Coil T.C Date : 28.09.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241011/N	30 Nos	457.7	456.5	5.00	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.140	0.480	0.007	0.017	338	463	35	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.P.G.T

Senior Head Inspector Q.A

In-Charge/ Manager Q.A.

MKK Metal Sections (P) Ltd. RANIPET-TN Pin:632403

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.

MILL TEST CERTIFICATE

TO	T.C.No :
M/S. B.B.PATIL CIVIL CONTRACTS	Date : 28.07.2025
AT POST : HOSUR , JAL : HUKKERI , DIST:	Coil Heat No : D981167
BELGAVI - KARNATAKA - 591221	Coil T.C No : HR/24-25/0003761462
	Coil T.C Date : 27.09.2024

MATERIAL SUPPLY DETAILS

PO No : Mail
PO DATE : 05.07.2024
ITEM : ERW Mild Steel Tubes
TYPE : Black Plain Ended
SPECIFICATION : IS 3589 : 2001 FE 410

SL. No	SIZE	BATCH NO	QUANTITY	PHYSICAL DIMENSIONS			
				Outside Dimensions		Thickness	
				Max(mm)	Min(mm)	Min(mm)	Max(mm)
1	457.2 x 5.0 x 12000 mm	M1/457.0/241011/N	27 Nos	458.4	457.1	5.01	5.09

TEST RESULTS

Element	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES			STRAIGHTNESS	FLATTENING TEST
	C %	Mn %	S %	P %	YST	TS	EL		
Min	-	-	-	-	235 MPa	410 MPa	18.00%	To Pass	To Pass
Max	0.20%	1.30%	0.040%	0.040%	-	-	-	-	-
Actual	0.147	0.480	0.008	0.019	359	483	31	PASSED	PASSED

Remarks: i) The material supplied conforms to the standard dimensions, weight tolerances, chemical compositons and mechanical properties.

ii) Tubes are Hydrostatically tested at 5 Mpa pressure and found satisfactory.

References : IS 3589 : 2001 FE 410

R.P.C.+

Senior Head Inspector Q.A

M/s. Metal Sections (P) Ltd. RANIPET-TN Pin-632403

In-Charge/ Manager Q.A.

Manufacturer of :-

ERW Black and Galvanized Steel Tubes/Pipes, (Round, Square, Rectangular, Octagonal).
Hot dip galvanizing of steel products, Cold rolled open sections, Z&C Purlin, Rolling Shutters (Complete Accessories),
Colour coated roofing sheets, Solar(MMS, Trackers), Handrails, Cable trays, False ceiling, Reinforcement and Railway coach products.