



WELDER QUALIFICATION TEST CERTIFICATE

PROJECT NAME : Fabrication of BSG 72M Span as per RDSO Drawing No. RDSO-B/10412/R Series for REHABILITATION AND UPGRADATION TO 2- LANE WITH PAVED SHOULDERS CONFIGURATION OF MIRANPUR KATRA TO RADHAITA SECTION OF NH-730C (KM 114.000 TO KM 137.250) IN THE STATE OF UTTAR PRADESH UNDER GREEN NATIONAL HIGHWAYS CORRIDOR PROJECT (GNHCP) WITH THE LOAN ASSISTANCE OF WORLD BANK ON EPC MODE.

Designation	: IS 7310-136-P-FW-1-1.2-B-S20-PF-SS(NB)-ML	
WPQR No	: HMM/26/WPQR/BSG/60M/FCAW/004	
WPSS Reference	: HMM/23/WPSS/SBIPL/BSG/72M/FCAW/007 TO HMM/23/WPSS/SBIPL/BSG/72M/FCAW/029	
Welder Name	: RAHUL KUMAR	
Sample Identification	: FCAW-04	
Method of Identification	: ID Card	
Identification Card No.	: 5915 4966 0423	
Date and Place of Birth	: 30-01-1999; UNA(HP)	
Employer	: M/S HMM INFRA LTD.	
Code/Testing Standard	: IS 7310 - 2019	

Job Knowledge : : Acceptable

	Test Piece	Range of Qualification
Welding Process	136 (FCAW)	136 (FCAW)
Transfer Mode	Globular Transfer	Globular Transfer
Product Type	Plate	Plate
Type of Weld	Fillet Welding (FW)	Fillet Welding (FW)
Parent Material Group	Group 1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Flux Cored Wire	Flux Cored Wire
Filler Material (Designation)	IRSM-46-Class 1 (E71T-1)	IRSM-46-Class 1 (E71T-1)
Current (Amp)	150 - 190	135 - 209
Voltage	20 - 22	19 - 23
Travel Speed	N/A	N/A
Shielding Gas	CO ₂	CO ₂
Auxiliaries	N/A	N/A
Type of Current and Polarity	DCEP	DCEP
Material Thickness (mm)	25 X 25 mm	S ₂ ≥ 3 mm
Deposited Thickness (mm)	20 mm Fillet	SL : ≤ 6 mm, ML: > 6 mm Fillet
Welding Position	PF (3F)	PA (1F), PB (2F) & PF (3F)
Weld details	Fillet Welding (FW)	Fillet Welding (FW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL), Multi-Layer (ML)
Type of Test	Performed and accepted	Name of Examiner or Examining Body : M&C, RDSO OFFICIAL Place :M/S HMM INFRA LTD. Date of Test: 06.08.2026 Signature of Examiner : Date of Issue : 13/08/26 MMA mbe.
Visual Testing / DPT	●	
Radiographic Testing	○	
Fracture Test	●	
Bend Test	○	
Notch Tensile Test	○	
Macroscopic Examination	●	

Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		

**WELDING PROCEDURE QUALIFICATION RECORD**

CUM

WELDER QUALIFICATION TEST CERTIFICATE

PROJECT : CONSTRUCTION OF PROPOSED FOUR LANE RAILWAY OVER BRIDGE OF SARANGPUR ROB BETWEEN
AHMEDABAD AND MANINAGAR STATION
Bow Type Truss : 107M

Designation	: IS 7310-135-121-P-BW-1-1.2-B-PA-SS(NB)-ML		 SATVEER SINGH
WPQR No	: HMM/26/WPQR/BTR/107M/GMAW+SAW/002		
WPSS Reference	: HMM/25/WPSS/RLDA/BTR/107.006M/GMAW+SAW/001 TO HMM/25/WPSS/RLDA/BTR/107.006M/GMAW+SAW/006		
Welder Name	: SATVEER SINGH + RAGHUBEER		
Sample Identification	: GMAW+SAW-02		
Method of Identification	: AADHAR ID (2203 6690 9443) + (9481 4642 3318)		
Date and Place of Birth	: 02/01/1991, PATIALA (PB) + 28/05/1990, AMBALA (HARYANA)		
Employer	: M/S HMM INFRA LTD.		 RAGHUBEER
Code/Testing Standard	: IS 7310 - 2019		
Job Knowledge :	: Acceptable		
	Test Piece	Range of Qualification	
Welding Process	135 (GMAW) + 121 (SAW)	135 (GMAW) + 121 (SAW)	
Transfer Mode	Globular Transfer + N/A	Globular Transfer + N/A	
Product Type	Plate	Plate	
Type of Weld	T-Butt Welding (BW)	T-Butt Welding (BW)	
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2	
Filler Material Group	Solid Wire	Solid Wire	
Filler Material (Designation)	IRSM-46-Class 1 + IRSM-39-W2+F2	IRSM-46-Class 1 + IRSM-39-W2+F2	
Current (Amp)	220 - 230 / 475 - 575	198-253 / 428 - 632	
Voltage (V)	27 - 30	26 - 32	
Travel Speed (cm/min.)	NA / 42	NA / 36 - 48	
Shielding Gas	CO2 / NA	CO2 / NA	
Auxiliaries	N/A	N/A	
Type of Current and Polarity	DCEP	DCEP	
Material Thickness (mm)	40 X 40 mm	S _≥ 3 mm	
Deposied Thickness (mm)	Butt Weld	S _≥ 3 mm	
Welding Position	PA (1G)	PA (1G)	
Weld details	Butt Welding (BW)	Butt Welding (BW)	
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SI), Multi-Layer (MI.)	
Type of Test	Results	Name of Examiner or Examining Body : ARO/M&C	
Visual Testing	●	Place :M/S HMM INFRA LTD.	
DPT	●	Date of Test:29.05.2026	
Ultrasonic Testing	●	Signature of Examiner :	
Bend Test	○	Date of Issue : 	
Hardness Test	○		
Macroscopic Examination	●		
○ - NOT APPLICABLE , ● APPLICABLE & FOUND SATISFACTORY			
Revalidation 9.3 C)	Validity of approval Until	Approved by	
NA			

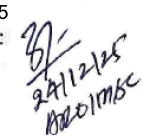


WELDER QUALIFICATION TEST CERTIFICATE

PROJECT : CONSTRUCTION OF PROPOSED FOUR LANE RAILWAY OVER BRIDGE OF SARANGPUR ROB BETWEEN AHMEDABAD AND MANINAGAR STATION
Bow Type Truss : 107M

Designation	: IS 7310-135-P-FW-1-1.2-B-S10-PF-SS(NB)-ML
WPQR No	: HMM/25/WPQR/BTT/107M/GMAW/002
WPSS Reference	: HMM/25/WPSS/RLDA/OWG/105M/GMAW/001 TO HMM/25/WPSS/RLDA/OWG/105M/GMAW/024
Welder Name	: DHARMENDRA KUMAR
Sample Identification	: GMAW-02
Method of Identification	: ID Card
Date and Place of Birth	: 16/02/1996, GOPALGANJ (BIHAR)
Employer	: M/S HMM INFRA LTD.
Code/Testing Standard	: IS 7310 - 2019
Job Knowledge :	: Acceptable



	Test Piece	Range of Qualification
Welding Process	135 (GMAW)	135 (GMAW)
Transfer Mode	Globular Transfer	Globular Transfer
Product Type	Plate	Plate
Type of Weld	Fillet Welding (FW)	Fillet Welding (FW)
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Solid Wire	Solid Wire
Filler Material (Designation)	IRSM-46-Class 1 (ER70S6)	IRSM-46-Class 1 (ER70S6)
Current (Amp)	250 - 270	225 - 297
Voltage	24 - 26	22 - 27
Travel Speed	N/A	N/A
Shielding Gas	CO ₂	CO ₂
Auxiliaries	N/A	N/A
Type of Current and Polarity	DCEP	DCEP
Material Thickness (mm)	20 X 20 mm	S ₂ ≥ 3 mm
Deposited Thickness (mm)	10 mm Fillet	SL: ≤ 6 mm, ML: > 6mm Fillet
Welding Position	PF (3F)	PA (1F), PB (2F) & PF (3F)
Weld details	Fillet Welding (FW)	Fillet Welding (FW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL), Multi-Layer (ML)
Type of Test	Performed and accepted	Name of Examiner or Examining Body : M&C, RDSO OFFICIAL Place :M/S HMM INFRA LTD. Date of Test: 09.12.2025 Signature of Examiner :  Date of Issue :
Visual Testing / DPT	●	
Radiographic Testing	○	
Fracture Test	●	
Bend Test	○	
Notch Tensile Test	○	
Macroscopic Examination	●	
Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		

**WELDING PROCEDURE QUALIFICATION RECORD**

CUM

WELDER QUALIFICATION TEST CERTIFICATE

PROJECT : CONSTRUCTION OF PROPOSED FOUR LANE RAILWAY OVER BRIDGE OF SARANGPUR ROB BETWEEN
AHMEDABAD AND MANINAGAR STATION
Bow Type Truss : 107M

Designation	: IS 7310-135-121-P-BW-1-1.2-B-PA-SS(NB)-ML		 SATVEER SINGH
WPQR No	: HMM/26/WPQR/BTR/107M/GMAW+SAW/002		
WPSS Reference	: HMM/25/WPSS/RLDA/BTR/107.006M/GMAW+SAW/001 TO HMM/25/WPSS/RLDA/BTR/107.006M/GMAW+SAW/006		
Welder Name	: SATVEER SINGH + RAGHUBEER		
Sample Identification	: GMAW+SAW-02		
Method of Identification	: AADHAR ID (2203 6690 9443) + (9481 4642 3318)		
Date and Place of Birth	: 02/01/1991, PATIALA (PB) + 28/05/1990, AMBALA (HARYANA)		
Employer	: M/S HMM INFRA LTD.		 RAGHUBEER
Code/Testing Standard	: IS 7310 - 2019		
Job Knowledge :	: Acceptable		
	Test Piece	Range of Qualification	
Welding Process	135 (GMAW) + 121 (SAW)	135 (GMAW) + 121 (SAW)	
Transfer Mode	Globular Transfer + N/A	Globular Transfer + N/A	
Product Type	Plate	Plate	
Type of Weld	T-Butt Welding (BW)	T-Butt Welding (BW)	
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2	
Filler Material Group	Solid Wire	Solid Wire	
Filler Material (Designation)	IRSM-46-Class 1 + IRSM-39-W2+F2	IRSM-46-Class 1 + IRSM-39-W2+F2	
Current (Amp)	220 - 230 / 475 - 575	198-253 / 428 - 632	
Voltage (V)	27 - 30	26 - 32	
Travel Speed (cm/min.)	NA / 42	NA / 36 - 48	
Shielding Gas	CO2 / NA	CO2 / NA	
Auxiliaries	N/A	N/A	
Type of Current and Polarity	DCEP	DCEP	
Material Thickness (mm)	40 X 40 m	S _≥ 3 mm	
Deposied Thickness (mm)	Butt Weld	S _≥ 3 mm	
Welding Position	PA (1G)	PA (1G)	
Weld details	Butt Welding (BW)	Butt Welding (BW)	
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SI), Multi-Layer (MI.)	
Type of Test	Results	Name of Examiner or Examining Body : ARO/M&C	
Visual Testing	●	Place :M/S HMM INFRA LTD.	
DPT	●	Date of Test:29.05.2026	
Ultrasonic Testing	●	Signature of Examiner :	
Bend Test	○	Date of Issue : 	
Hardness Test	○		
Macroscopic Examination	●		
○ - NOT APPLICABLE , ● APPLICABLE & FOUND SATISFACTORY			
Revalidation 9.3 C)	Validity of approval Until	Approved by	
NA			

WELDING RESEARCH INSTITUTE

BHARAT HEAVY ELECTRICALS LIMITED

TIRUCHIRAPPALLI - 620 014 INDIA



American Welding Society

Educational Institution Member



Course Code: SSTC / RDSO / 2W

Certificate Sl. No. W-1/ 05 / 2025

CERTIFICATE

Awarded to

Shri Rohit Kumar

of

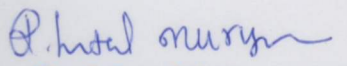
M/s **HMM Infra Limited**

Ambala (Haryana)

on his participation in the training programme on

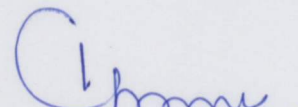
Welding Technology

from 16-09-2025 to 19-09-2025


(Dr. R Senthil Murugan)

Course Director




(K Ravindran)

General Manager

M&S, DABG, CAPEX, WRI &
Medical

 WELDER QUALIFICATION TEST CERTIFICATE		
PROJECT : CONSTRUCTION OF NEW B.G. RAILWAY LINE PROJECT FROM MURKONGSELEK STATION IN THE STATE OF ASSAM (CH: 0.780KM) TO PROPOSED PASIGHAT STATION IN THE STATE OF ARUNACHAL PRADESH (CH: 27.062 KM) 24.4M X 2 CG BRIDGE NO.-58		
Designation	: IS 7310-135-P-FW-1-1.2-S-S12-PB-SS(NB)-ML	
WPQR No	: HMM/26/WPQR/NFR/24.4M/GMAW/002	
WPSS Reference	: HMM/26/WPSS/NFR/24.4M/GMAW/01 HMM/26/WPSS/NFR/24.4M/GMAW/02 HMM/26/WPSS/NFR/24.4M/GMAW/03 HMM/26/WPSS/NFR/24.4M/GMAW/04	
Welder Name	: ROHIT KUMAR	
Sample Identification	: GMAW-02	
Method of Identification	: Aadhar ID - (7328 4347 0766)	
Date and Place of Birth	: 03/05/1999 ; MUZAFFARPUR (BIHAR)	
Employer	: M/S HMM INFRA LTD.	
Code/Testing Standard	: IS 7310 - 2019	
Job Knowledge :	: Acceptable	
	Test Piece	Range of Qualification
Welding Process	135 (GMAW)	135 (GMAW)
Transfer Mode	Globular Transfer	Globular Transfer
Product Type	Plate	Plate
Type of Weld	Fillet Welding (FW)	Fillet Welding (FW)
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Solid Wire	Solid Wire
Filler Material (Designation)	IRSM-46-Class 1 (ER70S6)	IRSM-46-Class 1 (ER70S6)
Current (Amp)	210 - 220	190 - 240
Voltage	28 - 29	26 - 31
Travel Speed	N/A	N/A
Shielding Gas	CO ₂	CO ₂
Auxiliaries	N/A	N/A
Type of Current and Polarity	DCEP	DCEP
Material Thickness (mm)	25 X 25 mm	S _≥ 3 mm
Deposited Thickness (mm)	12 mm Fillet	SL: ≤ 6 mm, ML: > 6mm Fillet
Welding Position	PB (2F)	PA (1F), PB (2F)
Weld details	Fillet Welding (FW)	Fillet Welding (FW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL), Multi-Layer (ML)
Type of Test	Performed and accepted	Name of Examiner or Examining Body : ARO/M&C, RDSO
Visual Testing / DPT	●	Place : M/S HMM INFRA LTD.
Radiographic Testing	○	Date of Test: 14.07.2026
Fracture Test	●	Signature of Examiner :
Bend Test	○	Date of Issue :
Notch Tensile Test	○	
Macroscopic Examination	●	
Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		

 WELDER QUALIFICATION TEST CERTIFICATE		
PROJECT : CONSTRUCTION OF NEW B.G. RAILWAY LINE PROJECT FROM MURKONGSELEK STATION IN THE STATE OF ASSAM (CH: 0.780KM) TO PROPOSED PASIGHAT STATION IN THE STATE OF ARUNACHAL PRADESH (CH: 27.062 KM) 24.4M X 2 CG BRIDGE NO.-58		
Designation	: IS 7310-121-P-FW-1(1.2)-S-S12-PA-SS(NB)-ML	
WPQR No	: HMM/26/WPQR/NFR/24.4M/SAW/001	
WPSS Reference	: HMM/26/WPSS/NFR/24.4M/SAW/01 HMM/26/WPSS/NFR/24.4M/SAW/02 HMM/26/WPSS/NFR/24.4M/SAW/03	
Welder Name	: MALKEET SINGH	
Sample Identification	: SAW-01	
Method of Identification	: Aadhar ID - (8563 9467 3354)	
Date and Plate of Birth	: 19/09/1987 ; PATIALA (PUNJAB)	
Employer	: M/S HMM INFRA LTD.	
Code/Testing Standard	: IS 7310 - 2019	
Job Knowledge :	: Acceptable	
		Range of Qualification
Welding Process	121 (SAW)	121 (SAW)
Transfer Mode	N/A	N/A
Product Type	Plate	Plate
Type of Weld	Fillet Welding (FW)	Fillet Welding (FW)
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Solid Wire	Solid Wire
Filler Material (Designation)	IRSM-39-W1 (EL8)	IRSM-39-W1 (EL8)
	IRSM-39-F1 (FLUX)	IRSM-39-F1 (FLUX)
Current (Amp)	500-520	450 - 572
Voltage (V)	29 - 30	27 - 32
Travel Speed (cm/min)	35 - 40	30 - 46
Shielding Gas	N/A	N/A
Auxiliaries	N/A	N/A
Type of Current and Polarity	DCEP	DCEP
Material Thickness (mm)	25 X 25 mm	S _≥ 3 mm
Deposited Thickness (mm)	12 mm Fillet	SL : ≤ 8 mm, ML: > 8mm Fillet
Welding Position	PA (1F)	PA (1F)
Weld details	Fillet Welding (FW)	Fillet Welding (FW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL) , Multi-Layer (ML)
Type of Test	Performed and accepted	Name of Examiner or Examining Body :
Visual Testing/DPT	●	ARO/M&C, RDSO
Radiographic Testing	○	Place :M/S HMM INFRA LTD.
Fracture Test	●	Date of Test: 14.07.2026
Bend Test	○	Signature of Examiner :
Notch Tensile Test	○	Date of Issue : 
Macroscopic Examination	●	
Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		

	 SURENDER Supervisor (For Bridges Steel Fabrication & Erection) SIPL-AG (JV)	 KRC KARNATAKA RAILWAY CORPORATION LIMITED India undertaking	 MANISH KUMAR Sup. Steel Bridge Engg Attinok Jain Engg. JV KME / RVNL
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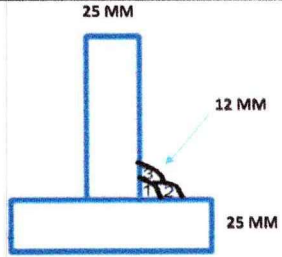
WELDER QUALIFICATION TEST CERTIFICATE

PROJECT NAME :- CONSTRUCTION OF 3RD & 4TH LINE BETWEEN BKSC-BKSC N CABIN OF ADRA DIVISION,
PROPOSED ROB OF SPAN 48M BOW STRING GIRDER AT CH-614.3

Designation	: IS 7310-136-P-FW-1-1.2-B-S12-PD-SS(NB)-ML	
WPQR No	: HMM/26/WPQR/BSG/48M/FCAW/003	
WPSS Reference	: HMM/25/WPSS/VBB/BSG/48M/SITE/FCAW/001 TO HMM/25/WPSS/VBB/BSG/48M/SITE/FCAW/020	
Welder Name	: ARJUN KUMAR	
Sample Identification	: FCAW-03	
Method of Identification	: Aadhar ID (9239 0705 9500)	
Date and Place of Birth	: 12/04/2002, GOPALGANJ (BIHAR)	
Employer	: M/S HMM INFRA LTD.	
Code/Testing Standard	: IS 7310 - 2019	
Job Knowledge :	: Acceptable	
	Test Piece	Range of Qualification
Welding Process	136 (FCAW)	136 (FCAW)
Transfer Mode	Globular Transfer	Globular Transfer
Product Type	Plate	Plate
Type of Weld	Fillet Welding (FW)	Fillet Welding (FW)
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Flux Cored Wire	Flux Cored Wire
Filler Material (Designat	IRSM-46-Class 1 (E71T-1)	IRSM-46-Class 1 (E71T-1)
Current (Amp)	150 - 190	135 - 209
Voltage	20 - 22	19 - 23
Travel Speed	N/A	N/A
Shielding Gas	CO ₂	CO ₂
Auxiliaries	N/A	N/A
Type of Current and Pola	DCEP	DCEP
Material Thickness (mm)	25 X 25 mm	S _≥ 3 mm
Deposited Thickness (mm)	12 mm Fillet	SL : ≤ 6 mm, ML: > 6 mm Fillet
Welding Position	PD (4F)	PA (1F), PB (2F) & PD (4F)
Weld details	Fillet Welding (FW)	Fillet Welding (FW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL), Multi-Layer (ML)
Type of Test	Performed and accepctd	Name of Examiner or Examining Body : M&C/RDSO
Visual Testing / DPT	●	Place :M/S HMM INFRA LTD. Date of Test: Signature of Examiner : Date of Issue :
Radiographic Testing	0	
Fracture Test	●	
Bend Test	0	
Notch Tensile Test	0	
Macroscopic Examination	●	
Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		

WQTR (Welder Qualification Test Record)

Project -Fabrication, Assembling, Transportation Erection/end launching of all types of steel girders of specified spans at our RVNL PKG-2 Bhanupali-Bilaspur-Beri New Railway Broad gauge Railway Line Project.

MANUFACTURER NAME & ADDRESS	HMM INFRA LTD, VILLAGE MANDOUR, NARAINGARH ROAD, AMBALA-134003 HARYANA	
WELDER QUALIFICATION TEST NO:	HMM/26/WQT/SI/GMAW/015	
1.DESCRPTION OF WELD	T-JOINT, FILLET WELDING	
2.WELDING PROCEDURE SPECIFICATION NO:	HMM/25/SI/GMAW01 to HMM/25/SI/GMAW10	
3. WELDER NAME:	ARVIND KUMAR	
4.WELDER ID:	HMM/SIPL/MW-15	
5.DATE OF TEST:	20-08-2026	
6.DIMENSION OF TEST PIECES:	T1-25X150X350, T2-25X150X350	
7.BASE METAL:	IS 2062:2011 E350 CU C/C CU	
8.WELDING PROCESS:	GMAW	
9.WELDING POSITION:	HORIZONTAL(2F)	
10.PROVISION OF RUN ON-RUN OFF:	YES	
11.WELDING CURRENT:TYPE/POLARITY:	DC & RP/EP	

12.JOINT DETAILS WITH SKETCH:

13. SHIELDING GAS: CO2(100%)

14. Electrods/Wire: 1.2mm Dia. (Batch No. 71816C (L))

Class	Dia.(mm)	Type	Brand	Drying Method
IRS M46-20-Class 1	1.2 MM	Copper Coated solid wire	MW Wiretec	NA

15. Welding Parameter:

Welding Pass No.	Electrod/wire Dia(mm)	Current(amp)	Arc Voltage(volt)	Wire Feed Speed(m/min)	Travel Speed(m/min)	Electrode Stick out(mm)	Shielding Gas Flow Rate(Ltr/min)
Pass-1	1.2MM	235-245	22-24	03-06	NA	15-16	20-21
Pass-2	1.2MM	240-250	20-22	03-06	NA	15-16	20-22
Pass-3	1.2MM	225-235	20-22	03-06	NA	15-16	20-22

Preheating & Interpass temperature

150-250°C

Result of qualification

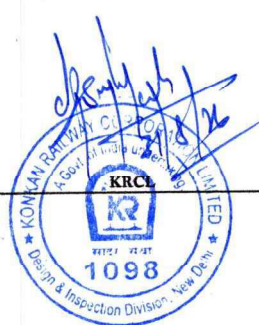
As per IS 7310(part1)-2019

Approved Test Results(Covers Thickness Range of WPSS)

Visual	FOUND SATISFACTORY
DP Test	FOUND SATISFACTORY
Fracture Test/Macro Examination	NABL REPORT NO. DATE TR/26108/103826, 26/08/26 FOUND SATISFACTORY



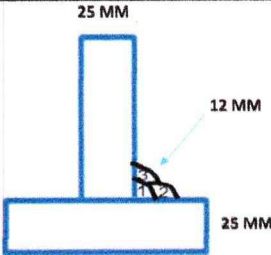
SURENDER
Supervisor
(For Bridges Steel Fabrication & Erection)
SIPL-AG (JV)



MANISH KUMAR
Sup. Steel Bridge Engg.
Altinok-Loin Engg. JV

WQTR (Welder Qualification Test Record)

Project -Fabrication, Assembling, Transportation Erection/end launching of all types of steel girders of specified spans at our RVNL PKG-2 Bhanupali-Bilaspur-Beri New Railway Broad gauge Railway Line Project.

MANUFACTURER NAME & ADDRESS	HMM INFRA LTD, VILLAGE MANDOUR, NARAINGARH ROAD, AMBALA-134003 HARYANA	
WELDER QUALIFICATION TEST NO:	HMM/26/WQT/SI/GMAW/014	
1.DESCRPTION OF WELD	T-JOINT ,FILLET WELDING	
2.WELDING PROCEDURE SPECIFICATION NO:	HMM/25/SI/GMAW01 to HMM/25/SI/GMAW10	
3. WELDER NAME:	SURAJ KUMAR	
4.WELDER ID:	HMM/SIPL/MW-14	
5.DATE OF TEST:	20-08-2026	
6.DIMENSION OF TEST PIECES:	T1-25X150X350, T2-25X150X350	
7.BASE METAL:	IS 2062:2011 E350 CU C/C CU	
8.WELDING PROCESS:	GMAW	
WELDING POSITION:	HORIZONTAL(2F)	
10.PROVISION OF RUN ON-RUN OFF:	YES	
11.WELDING CURRENT:TYPE/POLARITY:	DC & RP/EP	

12.JOINT DETAILS WITH SKETCH:

13. SHIELDING GAS: CO2(100%)

14. Electrods/Wire: 1.2mm Dia. (Batch No. 71816C (L))

Class	Dia.(mm)	Type	Brand	Dying Method
IRS M46-20-Class 1	1.2 MM	Copper Coated solid wire	MW Wiretec	NA

15. Welding Parameter:

Welding Pass No.	Electrod/wire Dia(mm)	Current(amp)	Arc Voltage(volt)	Wire Feed Speed(m/min)	Travel Speed(m/min)	Electrode Stick out(mm)	Shielding Gas Flow Rate(Ltr/min)
Pass-1	1.2MM	230-240	22-24	03-06	NA	15-16	22-24
Pass-2	1.2MM	220-230	21-22	03-06	NA	15-16	20-22
Pass-3	1.2MM	240-250	20-22	03-06	NA	15-16	22-24

Preheating & Interpass temprature	150-250°C
Result of qualification	As per IS 7310(part1)-2019

Approved Test Results(Covers Thickness Range of WPSS)

Visual	FOUND SATISFACTORY
DP Test	FOUND SATISFACTORY
Fracture Test/Macro Examination	NABL REPORT NO. DATE TR/26105103827, 28/08/26, FOUND SATISFACTORY



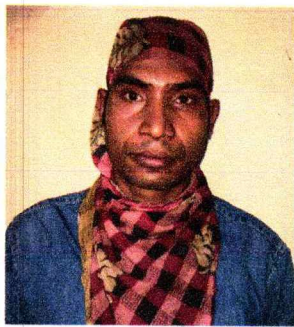
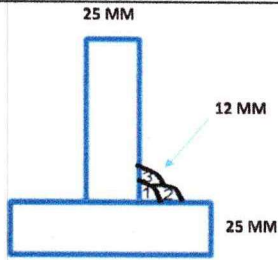
SURENDER
Supervisor
(For Bridges Steel Fabrication & Erection)
SIPL-AG (JV)



MANISH KUMAR
Sup. Steel Bridge Engg.
Altinok-Lion Engg. JV

WQTR (Welder Qualification Test Record)

Project -Fabrication, Assembling, Transportation Erection/end launching of all types of steel girders of specified spans at our RVNL PKG-2 Bhanupali-Bilaspur-Beri New Railway Broad gauge Railway Line Project.

MANUFACTURER NAME & ADDRESS	HMM INFRA LTD, VILLAGE MANDOUR, NARAINGARH ROAD, AMBALA-134003 HARYANA	
WELDER QUALIFICATION TEST NO:	HMM/26/WQT/SI/GMAW/016	
1.DESCRPTION OF WELD	T-JOINT, FILLET WELDING	
2.WELDING PROCEDURE SPECIFICATION NO:	HMM/25/SI/GMAW01 to HMM/25/SI/GMAW10	
3. WELDER NAME:	NIBHU RAM	
4.WELDER ID:	HMM/SIPL/MW-16	
5.DATE OF TEST:	20-08-2026	
6.DIMENSION OF TEST PIECES:	T1-25X150X350, T2-25X150X350	
7.BASE METAL:	IS 2062:2011 E350 CU C/C CU	
8.WELDING PROCESS:	GMAW	
9.WELDING POSITION:	HORIZONTAL(2F)	
10.PROVISION OF RUN ON-RUN OFF:	YES	
11.WELDING CURRENT:TYPE/POLARITY:	DC & RP/EP	

12.JOINT DETAILS WITH SKETCH:

13. SHIELDING GAS: CO2(100%)

14. Electrods/Wire: 1.2mm Dia. (Batch No. 71816C (L))

Class	Dia.(mm)	Type	Brand	Drying Method
IRS M46-20-Class 1	1.2 MM	Copper Coated solid wire	MW Wiretec	NA

15. Welding Parameter:

Welding Pass No.	Electrod/wire Dia(mm)	Current(amp)	Arc Voltage(volt)	Wire Feed Speed(m/min)	Travel Speed(m/min)	Electrode Stick out(mm)	Shielding Gas Flow Rate(Ltr/min)
Pass-1	1.2MM	230-240	20-22	03-06	NA	15-16	20-22
Pass-2	1.2MM	240-250	18-20	03-06	NA	15-16	22-24
Pass-3	1.2MM	230-240	20-22	03-06	NA	15-16	20-22

Preheating & Interpass temperature

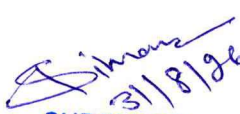
150-250°C

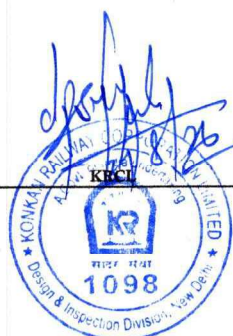
Result of qualification

As per IS 7310(part1)-2019

Approved Test Results(Covers Thickness Range of WPSS)

Visual	FOUND SATISFACTORY
DP Test	FOUND SATISFACTORY
Fracture Test/Macro Examination	NABL REPORT NO, DATE+ TR/26/08/2026, 28/08/26 FOUND SATISFACTORY



SURENDER
 Sup. In-charge
 (For Bridges Steel Fabrication & Erection)
 SIPL-AG (JV)




MANISH KUMAR
 Sup. Steel Bridge Engg.
 Altinok-Loin Engg. JV

WELDING RESEARCH INSTITUTE

BHARAT HEAVY ELECTRICALS LIMITED

TIRUCHIRAPPALLI - 620 014 INDIA



American Welding Society

Educational Institution Member



Course Code: SSTC / RDSO / 2W

Certificate Sl. No. W-1/ 03 / 2025

CERTIFICATE

Awarded to

Shri **Yashpal Rajbhar**

of

M/s **HMM Infra Limited**

Ambala (Haryana)

on his participation in the training programme on

Welding Technology

from 16-09-2025 to 19-09-2025

P. Senthil Murugan
(Dr. R Senthil Murugan)

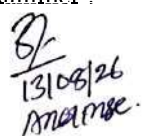
Course Director



K Ravindran
(K Ravindran)

General Manager

M&S, DABG, CAPEX, WRI &
Medical

 WELDER QUALIFICATION TEST CERTIFICATE		
PROJECT : CONSTRUCTION OF NEW B.G. RAILWAY LINE PROJECT FROM MURKONGSELEK STATION IN THE STATE OF ASSAM (CH: 0.780KM) TO PROPOSED PASIGHAT STATION IN THE STATE OF ARUNACHAL PRADESH (CH: 27.062 KM) 24.4M X 2 CG BRIDGE NO.-58		
Designation	: IS 7310-135-P-FW-1-1.2-S-S12-PB-SS(NB)-ML	
WPQR No	: HMM/26/WPQR/NFR/24.4M/GMAW/001	
WPSS Reference	: HMM/26/WPSS/NFR/24.4M/GMAW/01 HMM/26/WPSS/NFR/24.4M/GMAW/02 HMM/26/WPSS/NFR/24.4M/GMAW/03 HMM/26/WPSS/NFR/24.4M/GMAW/04	
Welder Name	: YASHPAL RAJBHAR	
Sample Identification	: GMAW-01	
Method of Identification	: Aadhar ID - (8903 4208 4186)	
Date and Plate of Birth	: 11/04/1998 ; BALLIA (UP)	
Employer	: M/S HMM INFRA LTD.	
Code/Testing Standard	: IS 7310 - 2019	
Job Knowledge :	: Acceptable	
	Test Piece	Range of Qualification
Welding Process	135 (GMAW)	135 (GMAW)
Transfer Mode	Globular Transfer	Globular Transfer
Product Type	Plate	Plate
Type of Weld	Fillet Welding (FW)	Fillet Welding (FW)
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Solid Wire	Solid Wire
Filler Material (Designation)	IRSM-46-Class 1 (ER70S6)	IRSM-46-Class 1 (ER70S6)
Current (Amp)	210 - 220	190 - 240
Voltage	28 - 29	26 - 31
Travel Speed	N/A	N/A
Shielding Gas	CO ₂	CO ₂
Auxiliaries	N/A	N/A
Type of Current and Polarity	DCEP	DCEP
Material Thickness (mm)	25 X 25 mm	S _≥ 3 mm
Deposited Thickness (mm)	12 mm Fillet	SL: ≤ 6 mm, ML: > 6mm Fillet
Welding Position	PB (2F)	PA (1F), PB (2F)
Weld details	Fillet Welding (FW)	Fillet Welding (FW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL), Multi-Layer (ML)
Type of Test	Performed and accepted	Name of Examiner or Examining Body : ARO/M&C, RDSO Place :M/S HMM INFRA LTD. Date of Test:14.07.2026 Signature of Examiner : Date of Issue : 
Visual Testing / DPT	●	
Radiographic Testing	○	
Fracture Test	●	
Bend Test	○	
Notch Tensile Test	○	
Macroscopic Examination	●	
Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		

 WELDER QUALIFICATION TEST CERTIFICATE		
PROJECT : CONSTRUCTION OF NEW B.G. RAILWAY LINE PROJECT FROM MURKONGSELEK STATION IN THE STATE OF ASSAM (CH: 0.780KM) TO PROPOSED PASIGHAT STATION IN THE STATE OF ARUNACHAL PRADESH (CH: 27.062 KM) 24.4M X 2 CG BRIDGE NO.-58		
Designation	: IS 7310-121-P-FW-1(1.2)-S-S12-PA-SS(NB)-ML	
WPQR No	: HMM/26/WPQR/NFR/24.4M/SAW/002	
WPSS Reference	: HMM/26/WPSS/NFR/24.4M/SAW/01 HMM/26/WPSS/NFR/24.4M/SAW/02 HMM/26/WPSS/NFR/24.4M/SAW/03	
Welder Name	: NESHU KUMAR	
Sample Identification	: SAW-02	
Method of Identification	: Aadhar ID - (3200 1326 0121)	
Date and Place of Birth	: 10/04/1991 ; AMBALA (HARYANA)	
Employer	: M/S HMM INFRA LTD.	
Code/Testing Standard	: IS 7310 - 2019	
Job Knowledge :	: Acceptable	
		Range of Qualification
Welding Process	121 (SAW)	121 (SAW)
Transfer Mode	N/A	N/A
Product Type	Plate	Plate
Type of Weld	Fillet Welding (FW)	Fillet Welding (FW)
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Solid Wire	Solid Wire
Filler Material (Designation)	IRSM-39-W1 (EL8)	IRSM-39-W1 (EL8)
	IRSM-39-F1 (FLUX)	IRSM-39-F1 (FLUX)
Current (Amp)	480 - 500	450 - 550
Voltage (V)	28 - 29	26 - 31
Travel Speed (cm/min)	45	40 - 50
Shielding Gas	N/A	N/A
Auxiliaries	N/A	N/A
Type of Current and Polarity	DCEP	DCEP
Material Thickness (mm)	25 X 25 mm	S _≥ 3 mm
Deposited Thickness (mm)	12 mm Fillet	SL : ≤ 8 mm, ML: > 8mm Fillet
Welding Position	PA (1F)	PA (1F)
Weld details	Fillet Welding (FW)	Fillet Welding (FW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL) , Multi-Layer (ML)
Type of Test	Performed and accepted	Name of Examiner or Examining Body : ARO/M&C, RDSO Place :M/S HMM INFRA LTD. Date of Test:14.07.2026 Signature of Examiner : Date of Issue : 
Visual Testing/DPT	●	
Radiographic Testing	●	
Fracture Test	●	
Bend Test	●	
Notch Tensile Test	●	
Macroscopic Examination	●	
Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		



WELDER QUALIFICATION TEST CERTIFICATE

PROJECT : CONSTRUCTION OF PROPOSED FOUR LANE RAILWAY OVER BRIDGE OF SARANGPUR ROB BETWEEN
AIIMEDABAD AND MANINAGAR STATION

Bow Type Truss : 107M

Designation	: IS 7310-121-P-BW-1.2-B-PA-SS(NB)-ML	
WPQR No	: HMM/26/WPQR/BTT/107M/SAW/001	
WPSS Reference	: HMM/25/WPSS/RLDA/OWG/105M/GMAW+SAW/001 TO HMM/25/WPSS/RLDA/OWG/105M/SAW/012	
Welder Name	: VIJAY KUMAR	
Sample Identification	: SAW-01	
Method of Identification	: ID Card	
Date and Place of Birth	: 26/07/1996 , AMBALA (HARYANA)	
Employer	: M/S HMM INFRA LTD.	
Code/Testing Standard	: IS 7310 - 2019	
Job Knowledge :	: Acceptable	

	Test Piece	Range of Qualification
Welding Process	121 (SAW)	121 (SAW)
Transfer Mode	N/A	N/A
Product Type	Plate	Plate
Type of Weld	T-Butt Welding (BW)	T-Butt Welding (BW)
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Solid Wire	Solid Wire
Filler Material (Designation)	IRSM-39-W2	IRSM-39-W2
Current (Amp)	500 - 550	450 - 605
Voltage (V)	27 - 30	26 - 32
Travel Speed (cm/min.)	42	36 - 48
Shielding Gas	NA	NA
Auxiliaries	N/A	N/A
Type of Current and Pola	DCEP	DCEP
Material Thickness (mm)	32 X 32 mm	S _≥ 3 mm
Deposited Thickness (mm)	32 mm Butt	S _≥ 3 mm
Welding Position	PA (1G)	PA (1G)
Weld details	Butt Welding (BW)	Butt Welding (BW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL), Multi-Layer (ML)
Type of Test	Performed and accepted	Name of Examiner or Examining Body : M&C, RDSO OFFICIAL Place :M/S HMM INFRA LTD. Date of Test : 25.01.2026 Signature of Examiner : Date of Issue : 09/03/26
Visual Testing / DPT	●	
Ultrasonic Testing	●	
Fracture Test	○	
Bend Test	○	
Notch Tensile Test	○	
Macroscopic Examination	●	

Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		

WELDING RESEARCH INSTITUTE

BHARAT HEAVY ELECTRICALS LIMITED

TIRUCHIRAPPALLI - 620 014 INDIA



American Welding Society
Educational Institution Member



Course Code: SSTC / RDSO / 2W

Certificate Sl. No. W-1/ 04 / 2025

CERTIFICATE

Awarded to

Shri Manoj Kumar

of

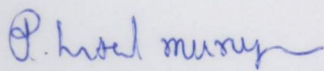
M/s **HMM Infra Limited**

Ambala (Haryana)

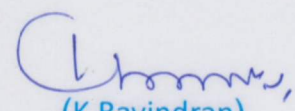
on his participation in the training programme on

Welding Technology

from 16-09-2025 to 19-09-2025

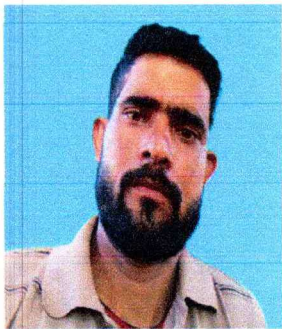
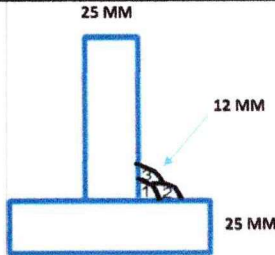

(Dr. R Senthil Murugan)
Course Director




(K Ravindran)
General Manager
M&S, DABG, CAPEX, WRI &
Medical

WQTR (Welder Qualification Test Record)

Project -Fabrication, Assembling, Transportation Erection/end launching of all types of steel girders of specified spans at our RVNL PKG-2 Bhanupali-Bilaspur-Beri New Railway Broad gauge Railway Line Project.

MANUFACTURER NAME & ADDRESS	HMM INFRA LTD, VILLAGE MANDOUR, NARAINGARH ROAD, AMBALA-134003 HARYANA	
WELDER QUALIFICATION TEST NO:	HMM/26/WQT/SI/GMAW/013	
1.DESRIPTION OF WELD	T-JOINT, FILLET WELDING	
2.WELDING PROCEDURE SPECIFICATION NO:	HMM/25/SI/GMAW01 to HMM/25/SI/GMAW10	
3. WELDER NAME:	MANOJ KUMAR	
4.WELDER ID:	HMM/SIPL/MW-13	
5.DATE OF TEST:	20-08-2026	
6.DIMENSION OF TEST PIECES:	T1-25X150X350, T2-25X150X350	
7.BASE METAL:	IS 2062:2011 E350 CU C/C CU	
8.WELDING PROCESS:	GMAW	
WELDING POSITION:	HORIZONTAL(2F)	
10.PROVISION OF RUN ON-RUN OFF:	YES	
11.WELDING CURRENT:TYPE/POLARITY:	DC & RP/EP	

12.JOINT DETAILS WITH SKETCH:

13. SHIELDING GAS: CO2(100%)

14. Electrods/Wire: 1.2mm Dia. (Batch No. 71816C (L))

Class	Dia.(mm)	Type	Brand	Dying Method
IRS M46-20-Class 1	1.2 MM	Copper Coated solid wire	MW Wiretec	NA

15. Welding Parameter:

Welding Pass No.	Electrod/wire Dia(mm)	Current(amp)	Arc Voltage(volt)	Wire Feed Speed(m/min)	Travel Speed(m/min)	Electrode Stick out(mm)	Shielding Gas Flow Rate(Ltr/min)
Pass-1	1.2MM	225-235	20-22	03-06	NA	15-16	18-19
Pass-2	1.2MM	240-250	22-24	03-06	NA	15-16	20-21
Pass-3	1.2MM	220-230	20-22	03-06	NA	15-16	18-19

Preheating & Interpass temprature

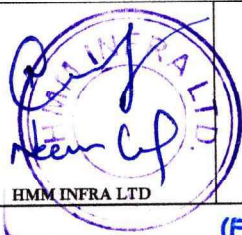
150-250°C

Result of qualification

As per IS 7310(part1)-2019

Approved Test Results(Covers Thickness Range of WPSS)

Visual	FOUND SATISFACTORY
DP Test	FOUND SATISFACTORY
Fracture Test/Macro Examination	NABL REPORT NO. DATE TRB6/08/03826, 26/8/26 FOUND SATISFACTORY



SURENDER
Supervisor
(For Bridges Steel Fabrication
& Erection)
SIPL-AG (JV)



MANISH KUMAR
Sup. Steel Bridge Engg.
Altinok-Loin Engg. JV

**WELDING PROCEDURE QUALIFICATION RECORD**

CUM

WELDER QUALIFICATION TEST CERTIFICATE

PROJECT : CONSTRUCTION OF PROPOSED FOUR LANE RAILWAY OVER BRIDGE OF SARANGPUR ROB BETWEEN
AHMEDABAD AND MANINAGAR STATION
Bow Type Truss : 107M

Designation	: IS 7310-135-P-BW-1-1.2-B-PA-SS(NB)-ML	 DHANANJAY GIRI
WPQR No	: HMM/26/WPQR/BTR/107M/GMAW/003	
WPSS Reference	: HMM/25/WPSS/RLDA/BTR/107.006M/GMAW/004	
Welder Name	: DHANANJAY GIRI	
Sample Identification	: GMAW-03	
Method of Identification	: AADHAR ID (5041 8759 7342)	
Date and Place of Birth	: 01/01/1985 ; MAU (UP)	
Employer	: M/S HMM INFRA LTD.	
Code/Testing Standard	: IS 7310 - 2019	
Job Knowledge :	: Acceptable	
	Test Piece	Range of Qualification
Welding Process	135 (GMAW)	135 (GMAW)
Transfer Mode	Globular Transfer	Globular Transfer
Product Type	Plate	Plate
Type of Weld	T-Butt Welding (BW)	T-Butt Welding (BW)
Parent Material Group	Group-1/Sub Group-1.2	Group-1/Sub Group-1.2
Filler Material Group	Solid Wire	Solid Wire
Filler Material (Designation)	IRSM-46-Class 1 (ER70S6)	IRSM-46-Class 1 (ER70S6)
Current (Amp)	250 - 270	225 - 297
Voltage (V)	26 - 30	24 - 32
Travel Speed (cm/min.)	N/A	N/A
Shielding Gas	CO ₂	CO ₂
Auxiliaries	N/A	N/A
Type of Current and Polarity	DCEP	DCEP
Material Thickness (mm)	32 X 40 mm	S _≥ 3 mm
Deposied Thickness (mm)	Butt weld	S _≥ 3 mm
Welding Position	PA (1G)	PA (1G)
Weld details	Butt Welding (BW)	Butt Welding (BW)
Multi-Layer/Single Layer	Multi-Layer (ML)	Single Layer(SL), Multi-Layer (ML)
Type of Test	Results	Name of Examiner or Examining Body : ARO/M&C
Visual Testing	●	Place :M/S HMM INFRA LTD.
DPT	●	Date of Test:29.05.2026
Ultrasonic Testing	●	Signature of Examiner :
Bend Test	○	Date of Issue :
Hardness Test	○	
Macroscopic Examination	●	
○ - NOT APPLICABLE , ● APPLICABLE & FOUND SATISFACTORY		
Revalidation 9.3 C)	Validity of approval Until	Approved by
NA		