



(A Constituent Board of Quality Council of India)



Laboratory Name	QUALITY ASSURANCE LABORATORY, HAPP, HEAVY ALLOY PENETRATOR PROJECT, THIRUCHIRAPALLI, TAMIL NADU , INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	TC-5319	Page No. :	1 / 14		
Validity	04/06/2019 to 03/06/2021	Last Amended on	-		

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection		
	Permanent Facility						
1	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Ag	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg		
2	CHEMICAL- METALS & ALLOYS	Cobalt Powder	AI	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg		
3	CHEMICAL- METALS & ALLOYS	Cobalt Powder	с	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	10th mg/kg to 3.50 mg/kg		
4	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Са	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg		
5	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Cr	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 1000 mg/kg		
6	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Cu	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 1000 mg/kg		





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7	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Mg	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg
8	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Mn	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	5 mg/kg to 1000 mg/kg
9	CHEMICAL- METALS & ALLOYS	Cobalt Powder	N2	In-house validated method based on Thermal Conductivity Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 50000 mg/kg
10	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Na	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg
11	CHEMICAL- METALS & ALLOYS	Cobalt Powder	02	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 30000 mg/kg
12	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Pb	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg





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13	CHEMICAL- METALS & ALLOYS	Cobalt Powder	s	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	10 mg/kg to 4000 mg/kg
14	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Sn	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 200 mg/kg
15	CHEMICAL- METALS & ALLOYS	Cobalt Powder	Zn	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg
16	CHEMICAL- METALS & ALLOYS	Iron Powder	As	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg
17	CHEMICAL- METALS & ALLOYS	Iron Powder	С	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	10 mg/kg to 35000 mg/kg
18	CHEMICAL- METALS & ALLOYS	Iron Powder	Cr	In-house validated method based on AAS Techniques QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg





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19	CHEMICAL- METALS & ALLOYS	Iron Powder	Cu	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 1000 mg/kg
20	CHEMICAL- METALS & ALLOYS	Iron Powder	Mn	In-house validated method based on AAS techniques QAL/HAPP/WI No.01: 2010	5 mg/kg to 500 mg/kg
21	CHEMICAL- METALS & ALLOYS	Iron Powder	Мо	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 1000 mg/kg
22	CHEMICAL- METALS & ALLOYS	Iron Powder	N2	In-house validated method based on Thermal Conductivity Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 50000 mg/kg
23	CHEMICAL- METALS & ALLOYS	Iron Powder	Ni	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 1000 mg/kg
24	CHEMICAL- METALS & ALLOYS	Iron Powder	02	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 50000 mg/kg





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25	CHEMICAL- METALS & ALLOYS	Iron Powder	Pb	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg
26	CHEMICAL- METALS & ALLOYS	Iron Powder	S	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	10 mg/kg to 4000 mg/kg
27	CHEMICAL- METALS & ALLOYS	Iron Powder	Si	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2013	10 mg/kg to 1000 mg/kg
28	CHEMICAL- METALS & ALLOYS	Iron Powder	Zn	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg
29	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	С	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	10 mg/kg to 35000 mg/kg
30	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	Са	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg





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31	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	Cr	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 500 mg/kg
32	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	N2	In-house validated method based on Thermal Conductivity Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 50000 mg/kg
33	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	02	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 3000 mg/kg
34	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	Pb	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg
35	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	S	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	10 mg/kg to 4000 mg/kg
36	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	Sn	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg





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37	CHEMICAL- METALS & ALLOYS	Molybdenum Powder	Ті	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg
38	CHEMICAL- METALS & ALLOYS	Nickel Powder	c	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	10 mg/kg to 35000 mg/kg
39	CHEMICAL- METALS & ALLOYS	Nickel Powder	N2	In-house validated method based on Thermal Conductivity Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 50000 mg/kg
40	CHEMICAL- METALS & ALLOYS	Nickel Powder	02	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 30000 mg/kg
41	CHEMICAL- METALS & ALLOYS	Nickel Powder	S	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03: 2010	10 mg/kg to 4000 mg/kg
42	CHEMICAL- METALS & ALLOYS	Nickel Powder	Sb	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg





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43	CHEMICAL- METALS & ALLOYS	Nickel Powder	Sn	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 100 mg/kg
44	CHEMICAL- METALS & ALLOYS	Steel Alloys	AI	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	300 mg/kg to 50000 mg/kg
45	CHEMICAL- METALS & ALLOYS	Steel Alloys	с	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03 ASTM-E 1019: 2010	100 mg/kg to 35000 mg/kg
46	CHEMICAL- METALS & ALLOYS	Steel Alloys	Cr	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	50 mg/kg to 150000 mg/kg
47	CHEMICAL- METALS & ALLOYS	Steel Alloys	Cu	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	50 mg/kg to 50000 mg/kg
48	CHEMICAL- METALS & ALLOYS	Steel Alloys	Mn	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01 IS 12046: 2010	1000 mg/kg to 20000 mg/kg





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49	CHEMICAL- METALS & ALLOYS	Steel Alloys	Мо	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01 IS 12042: 2010	500 mg/kg to 30000 mg/kg
50	CHEMICAL- METALS & ALLOYS	Steel Alloys	Ni	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01 IS 12122: 2010	50 mg/kg to 150000 mg/kg
51	CHEMICAL- METALS & ALLOYS	Steel Alloys	S	In-house validated method based on Infrared Cell Method- QAL/HAPP/WI No.03 ASTM-E 1019: 2010	50 mg/kg to 10000 mg/kg
52	CHEMICAL- METALS & ALLOYS	Steel Alloys	Si	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	500 mg/kg to 20000 mg/kg
53	CHEMICAL- METALS & ALLOYS	Tungsten Blended Powder	Co	In-house validated method based on AAS Technique- QAL/HAPP/WI No.02: 2010	500 mg/kg to 20000 mg/kg
54	CHEMICAL- METALS & ALLOYS	Tungsten Blended Powder	Fe	In-house validated method based on AAS Technique- QAL/HAPP/WI No.02: 2013	1000 mg/kg to 100000 mg/kg





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
55	CHEMICAL- METALS & ALLOYS	Tungsten Blended Powder	Мо	In-house validated method based on AAS Technique- QAL/HAPP/WI No.02: 2010	500 mg/kg to 20000 mg/kg
56	CHEMICAL- METALS & ALLOYS	Tungsten Blended Powder	Ni	In-house validated method based on AAS Technique- QAL/HAPP/WI No.02: 2010	1000 mg/kg to 100000 mg/kg
57	CHEMICAL- METALS & ALLOYS	Tungsten Blended Powder	02	In-house validated method based on Thermal Conductivity Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 2000 mg/kg
58	CHEMICAL- METALS & ALLOYS	Tungsten Powder	AI	In-house validated method based on AAS Technique- QAL/HAPP/WI No.01: 2013	10 mg/kg to 500 mg/kg
59	CHEMICAL- METALS & ALLOYS	Tungsten powder	As	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 200 mg/kg
60	CHEMICAL- METALS & ALLOYS	Tungsten Powder	Ві	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 200 mg/kg





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61	CHEMICAL- METALS & ALLOYS	Tungsten Powder	с	In-house validated method based on Infrared Cell Method - QAL/HAPP/WI No.03: 2010	10 mg/kg to 35000 mg/kg
62	CHEMICAL- METALS & ALLOYS	Tungsten powder	Са	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 1000 mg/kg
63	CHEMICAL- METALS & ALLOYS	Tungsten Powder	Cu	In-house validated method based on AAS Technique - QAL/HAPP/WI No.01: 2010	10 mg/kg to 1600 mg/kg
64	CHEMICAL- METALS & ALLOYS	Tungsten Powder	к	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 200 mg/kg
65	CHEMICAL- METALS & ALLOYS	Tungsten Powder	Mg	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 200 mg/kg
66	CHEMICAL- METALS & ALLOYS	Tungsten Powder	Mn	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	5 mg/kg to 500 mg/kg





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67	CHEMICAL- METALS & ALLOYS	Tungsten Powder	N2	In-house validated method based on Thermal Conductivity Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 50000 mg/kg
68	CHEMICAL- METALS & ALLOYS	Tungsten Powder	Na	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2013	10 mg/kg to 1000 mg/kg
69	CHEMICAL- METALS & ALLOYS	Tungsten Powder	02	In-house Validated method based on infrared Cell Method- QAL/HAPP/WI No.03: 2010	50 mg/kg to 30000 mg/kg
70	CHEMICAL- METALS & ALLOYS	Tungsten Powder	s	In-House validated method based on Infrared Cell Method - QAL/HAPP/WI No.03: 2010	10 mg/kg to 4000 mg/kg
71	CHEMICAL- METALS & ALLOYS	Tungsten Powder	Si	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 1000 mg/kg
72	CHEMICAL- METALS & ALLOYS	Tungsten Powder	Sn	In- House validated method based on AAS Technique- QAL/HAPP/WI No.01: 2010	10 mg/kg to 200 mg/kg





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73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	ROCKWELL Hardness HRC	IS 1586(Part-1): 2012	20 HRC to 65 HRC
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL AND ALUMINUM Alloy PRODUCTS	% ELONGATION	IS 1608(Part 1): 2018	2.0 % to 50 %
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL AND ALUMINUM Alloys	0.2% PROOF STRESS	IS 1608(Part 1): 2018	50 MPa to 900 MPa
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL AND ALUMINUM alloys	YIELD STRENGTH	IS 1608(Part 1): 2018	50 MPa to 900 MPa
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL AND ALUMINUM PRODUCTS	% REDUCTION AREA	IS 1608 (Part 1): 2018	5.0 % to 60 %
78	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL AND ALUMINUM PRODUCTS	BRINEL HARDNESS HBW 10/3000 & 5/250	IS 1500(Part-1): 2013	35 HBW to 450 HBW
79	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL AND ALUMINUM PRODUCTS	Tensile Test Tensile strength	IS 1608(Part 1): 2018	50 MPa to 1200 MPa





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80	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL products	CHARPY Impact Test(V Notch)	IS 1757 (Part 1): 2014	5 Joules to 300 Joules