## S.CRANE STANDARD QUALITY ASSURANCE PLAN FOR EOT CRANES, HOIST & LIFTS

Sr.No.	Components/ Operations	Characteristics	Class	Type/Method	Quantum	Reference	e Acceptance	Format of	Agency		
		onundotoristics	01033	of check	of check	Document	Norm	Records	М		C
1	2	3	4	5		7	8	9		10	
1	RAW MATERIALS CONTROL										
1.1	STRUCTURAL MATL.										
	SIDE PLATES,	Chemical &	Major	Chemical &	1 sample	IS-2062-	IS-2062-1992	Mill TCs	Р	V	V
	I-BEAM, ANGLE,	Mechanical		Mechanical	per size	1992					
	CHANNEL,										
1.2	GEARS & WHEELS	Chemical	Major	Chemical	1 sample	As per drg.	EN - 9	TC			
	( STEEL / FORGE )	Dimensional	,		per size				Р	V	V
	,										
1.3	PINION	Chemical	Major	Chemical	1 sample	As per drg.	EN - 31	TC			
		Dimensional			per size	, to por ang.			Р	v	V
					P0: 0120				·	, v	

## LEGEND:

M=Manufacturer	P=Perform	IR=Internal Inspection Report.
I = Inspecting Agency.	W=Witness	TC=Test Certificate.
C=Customer.	V=Verification as appropria	ate.

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	Operations	Characteristics	Class	Type/Methode of check	check	Document	Acceptance Norm	Records	Μ	I	С
1		3	4	5	6	7	8	9		10	
2	Boughtout Items										
2.1	WIRE ROPES	Identification of dimensional conformity	Major	Test Certificate.	100%	IS-2266 /2002	IS-2266 /2002	Manufacturers test report	Ρ	v	v
2.2	ноок	Tensile strength	Maior	MFG. Test Certificate. Proof load test	100%	IS-8610 IS-3815	IS-8610 IS-3815	Manufacturers test report	Ρ	V	V
2.3	MOTORS	No load current,Insulation .Interlock	Major	Performance test , No load operation test(During load test)	100%	IS:325/IEC60034-1	IS:325/IEC60034-1	Routine T.C	Ρ	V	V
2.4	ELECTRO MAGNETIC D.C BRAKES.	Verification of type, rating & make.	Major	Operational & Functional Test	100%	as per motor HP IS:325	as per motor HP IS:325	Manufacturer's Test certificate	Р	V	v
2.5	CONTACTORS	Verification of type, Rating & Make.	Major	Visual	100%	As Per Drg.	As Per Drg.	No Records	Ρ	V	V
2.6	CABLE.	Verification of type, & Make.	Major	Visual	100%	As Per Drg.	As Per Drg.	No Records	Ρ	V	V
2.7	LIMIT SWITICH	Verification of type,	Major	Visual	100%	As Per Drg.	As Per Drg.	No Records	Р	V	v
2.8		Visual type & Dimensional	Major	Visual.	100%	Bearing - Catalogue	Bearing - Catalogue	No Record	Ρ	V	V

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1		3	4	5	6	7	8	9		10		
3	IN PROCESS CONT											
3.1		a ) Butt welding b) Fillet welding	Major	DP Test/ Visual	In tension Zone Only	Fabrication & Drwing .	Fabrication & Drwing .	No Records	Р	V	v	
	Gears, Pinions.	Hardness; Gear 20 - 25 HRC Pinion 27 - 32 HRC	Major	Hardness testing	100%	Component & Drwing .	Component & Drwing .	I.R.	P	V	v	
3.3	Gear Boxes	(after 8hrs.running oil leakage) Back lash & tooth contact.	Major	Leakage check Measurement.	100%	As per drg.	NO Leakage.	I.R.	Р	V	v	
3.4	Wheels	Hardness 32-37 HRC	Major	Hardness testing	100%	As per drg.	As per drg.	I.R	Р	V	V	
	Rope Drum & Rope Guide	Visual & Dimensional	,	Visual & Measurement	100%	As per drg.	As per drg.	I.R	Ρ	V	V	
3.6	Control panel	Sequence of operations insulation & Interlock	Major	Sequence of operations insulation & Interlock	100%	As Per drawing	As Per drawing	I.R	Р	V	v	
3.7	Painting	Appearance Painting&surface preparation	Major	Visual	100%	Golden Yellow Firozy Blue	Golden Yellow Firozy Blue	No record	Р	V	V	
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1	2	3	4	5	6	7	8	9		10	_
4	Final Inspection										
4.1	Complete assembled Crane at shop floor for no load test & Full Load test	Dimensional inspec- tion and speed verification as per appd. GA drawing. no load current check Load test deflection		Measurement of dimension & speeds & no load current checking Load test	100%	IS:3177 / G.A.drg.	IS-3177 / appd. GA.drawings.	Inspection Report.	Ρ	V	V
4.2	Overload test	25 % over load	Major	Capacity of the crane to handle 25 % overload on hoist,CT & LT		IS:3177 / Apprd GA drg	IS:3177 / Apprd GA drg	Inspection Report.	Ρ	V	V
4.3	Packing & forwarding	Packing	Major	Visual	Roadwarthy	Mfgr's std	Mfgr's std	Packing list	Ρ		v
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