

Abbreviations:

BIS	:	Bureau of Indian Standards	MTC	:	Material Test Certificate
CEIL	:	Certification Engineers International Limited	MRT	:	Mechanical Run Test
CIMFR	:	Central Institute of Mining & Fuel Research	NDT	:	Non Destructive Testing
CE	:	Carbon Equivalent	NPSH	:	Net Positive Suction Head
DFT	:	Dry Film Thickness	PO	:	Purchase Order
DPT	:	Dye Penetrant Testing	PESO	:	Petroleum Explosive Safety Organization
DHT	:	De-hydrogen Heat Treatment	PQR	:	Procedure Qualification Record
ERTL	:	Electronics Regional Test Laboratory	PR	:	Purchase Requisition
FCRI	:	Fluid Control Research Institute	PMI	:	Positive Material Identification
HT	:	Heat Treatment	RT	:	Radiography Testing
HIC	:	Hydrogen Induced Cracking	SSCC	:	Sulphide Stress Corrosion Cracking
ITP	:	Inspection and Test Plan	TC	:	Test Certificate
IP	:	Ingress Protection	TPI or TPIA	:	Third Party Inspection Agency
IHT	:	Intermediate Heat Treatment	UT	:	Ultrasonic Testing
IC	:	Inspection Certificate	VDR	:	Vendor Data Requirement
IGC	:	Inter Granular Corrosion	WPS	:	Welding Procedure Specification
MPT/MT	:	Magnetic Particle Testing	WPQ	:	Welders Performance Qualification

Inspection Standards Committee

Convenor: Mr. R.K. Singh

Members:

Mr. Rajesh Sinha	Mr. Himangshu Pal	Mr. R. Muthuramalingam (RPO Representative)
Mr. Chandrashekhar	Mr. Avdesh Agrawal	Mr. Shishupal Choudhary (Engg. Representative)
Mr. Mahendra Mittal		

**INSPECTION AND TEST PLAN
FOR
CHAIN PULLEY BLOCK / WINCH**

STANDARD SPECIFICATION No.
6-81-0035 Rev. 4

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1.0 SCOPE:

This Inspection Test Plan covers the minimum testing requirements of Chain Pulley Block / Winch

2.0 REFERENCE DOCUMENTS:

PO/PR/ Standards referred there in/ Job specifications /Approved documents.

3.0 INSPECTION AND TEST REQUIREMENTS:

S. NO	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	FORMAT OF REPORT	SCOPE OF INSPECTION		
					SUB SUPPLIER	SUPPLIER	EIL/TPIA
1.0	Material Procurement						
1.1	Trolley & Chain Pulley Block Plates	Chemical & Physical	One Sample Per Lot/Heat	Test Certificates	H	R	R
1.2	Wire rope	Strand configuration, size & tensile strength	Per drum / length	Manufacturer's Test Certificate	H	R	R
1.3	Hook	Load & Proof load test, Chemical, Physical, HT & NDT	100%	Manufacturer's Test Certificate	H	R	R
1.4	Gears/Ratchet Pawl/ Wheel	Chemical Composition	One Sample Per Lot/Heat	Manufacturer's Test Certificates	H	R	R
2.0	In-process Inspection						

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S. NO	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	FORMAT OF REPORT	SCOPE OF INSPECTION		
					SUB SUPPLIER	SUPPLIER	EIL/TPIA
2.1	Hooks	Proof load	100%	Manufacturer's Test Certificates	-	H	-
2.2	Load Chain / Wire Rope	Proof load	100%	Manufacturer's Test Certificates	-	H	-
2.3	Ratchet Pawl	Hardness	100%	Inspection Report	-	H	-
3.0	Final Inspection						
3.1	Complete Assembly	Load & Proof Load test	100%	Inspection Report	-	H	RW
		Operational Effort	100%	Inspection Report	-	H	RW
		Lift	100%	Inspection Report	-	H	RW
4.0	Painting	Statutory certification / BIS License, if any	100%	Test Certificate/ License	-	R	R
4.1	Panting (As applicable)	Visual & Dry Film Thickness	100%	Inspection Report	-	W	-
5.0	Documentation and IC						

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S. NO	STAGE/ACTIVITY	CHARACTERISTICS	QUANTUM OF CHECK	FORMAT OF REPORT	SCOPE OF INSPECTION		
					SUB SUPPLIER	SUPPLIER	EIL/TPIA
5.1	Final stamping, review of inspection documents and issue of IC	Verifying stamping details and review of inspection documents	100%	IC / Inspection reports	-	H	H
5.2	Final documents as per PR	Verification & compilation of inspection & test records for submission to customer	100%	Final dossier	-	H	H

Legend: H- Hold (Do not proceed without approval), P-Perform, RW - Random Witness (As specified or 10% (min.1 no. of each size and type of Bulk item)), R-Review, W-Witness (Give due notice, work may proceed after scheduled date).

NOTES (as applicable):

1. This document describes the generic test requirements. Any additional test or Inspection scope if specified in contract documents shall also be applicable. (unless otherwise agreed upon)
2. Acceptance Norms for all the activities shall be as per PO/PR/STANDARDS referred there in /Job Specification /Approved Documents.
3. For EPC jobs, all inspection shall be carried out by TPIA, unless notified otherwise.