## QUALITY MONITORING INSTRUCTION FOR INSPECTION

Issue No : 01

Rev No:

Date of Issue

10 / 10 / 2023

C 5025 ( ROCKER)

OFT/MI/30mm/ C 5025

Rev.No Amendment Date

MATERIAL SPECIFICATION :

30XH2MØA OCT 3-98-80.

INDIGENOUS MATERIAL

BS: 970 PT.1 - 1983 GR.826 M31 'Z' CONDITION (OR)

IS: 5517-1993, DESIGN 31 Ni10 Cr3 Mo6 (LRS 63mm)

CONDITION OF SUPPLY

: FULL FINISHED THROUGH FORGING ROUTE.

END USE

: 30mm CANNON.

## INSPECTION CHECK TO BE CARRIED OUT

Table 'A'

CHARACTERISTICS							1	
CHARACIERISTICS		SAMPLE SIZE						
Visual		The Component shall be free from defects such as rust, scale, burrs and any other harmful defects.						
Dimension	100%							
				2000 2000 2000 2000	0.3	20-0.30 30 (Max)		
	Cr Ni	= 0.60-0.90 = 2.00-2.40	S P			, , , ,		
BS:970 Pt.1, 1983 GR.826 M31 'Z' CONDITION.								
Chemical Composition (%)			P				One Sample Per Heat	
	IS: 55	oradiovatich@ddicaren						
	C Si	= 0.27 - 0.35 $= 0.10 - 0.35$	Mn Ni				removes some separateurs	
	Cr	= 0.50 - 0.80					andre sale of the	
	Cu	= 0.35(Max)	V		**************************************	0.05(Max)	Variable Contraction Contracti	
	%Cu +							
	Chemical Composition (%)	Dimension 100%  30XH (Refe C Si Mn Cr Ni  BS:97 C Si Mn Cr Ni  IS: 55 C Si Cr	Dimension   Dimension to che	Dimension   Dime	Dimension   Dimension to check as per december	Dimension   Dime	burrs and any other harmful defects.  Dimension  100% Dimension to check as per drawing.  30XH2MØA OCT 3-98-80  (Refer GOST 4543-71)  C = 0.27-0.34	

).	Marking	avoid corrosion and damage in handling and transit.  Each Packing shall be legibly marked with manufacturer's identity, Qty, Heat No, OFT Supply order No etc.,							Each consignment	
3.	Finish Packing	The Packing of the Material shall be done in such a manner to							100%	
7	Protective	As per d	(Max) Irawing	(Max)	(Max)	(Max)	(Max)	(Max)	(Max)	
		(Max)	1 (545)	3	1	3	1	3	1	W-000000000000000000000000000000000000
		Thin	Thick	Thin	Thick	Thin	Thick	Thin	Thick	v consistence (protect
	Substitution		4	**************************************	В		C	D		
6	Other Tests	Accepta standar (ii) NMI	Acceptance Standard C-2, R-2,S-2 as per ASTM E-381-82 standard.  (ii) NMIR as per IS: 4163-1982.  With acceptance standard							
J.	Hardness	43.5-5 i) Macr	1.5 HR( o Etch T	(as per	drawin	g). /	99000000000000000000000000000000000000	***************************************	*	100 %
5.	Heade	0.2% P % Elon Impact	Strengt roof Str gation (Izod)	th ess	1300 8% ( 14 Jc	Mpa (N MPa (I Min) pules (M	Min) As Min)	RS 63n per drav	nm) wing /	
		Yield S Elonga Impact			5 %	N/mm <sup>2</sup> (Min.) b (Min)		/		
4.	Mechanical Properties	BS:970 Tensile	One Sample Per Heat							
		(Cross SQ)	riferior consequences and a second a second and a second							
		Reduction of area 40% (Min) Impact Strength 9 Kgf.m/cm² (Min)								
		Elonga			10% (N			/		
		Yield F	e Streng Point	gth		mm² (N mm² (N				

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## Note:

- The Raw material / component to be tested by the firm on selection of the sample by the firm 1. itself for chemical composition and mechanical properties in NABL accredited approved Lab as
- 2. The Firm has to check for the dimensions, visual defects, packing and marking as per Table 'A'. After completion of tests as per Note-1 as above, the Firm has to submit the following
  - The Raw material certificate from the original manufacturer, Heat number, and quantity purchased and number of bars is to be mentioned in the inspection letter to OFT.
  - The Chemical and Mechanical test certificates from NABL accredited approved lab as per Dimensional reports including visual as per Table 'A'.
  - 111. IV.
  - Guarantee / Warrantee certificate of supplier against the supply.
- 3. All the above Documents mentioned at Note No.2 above are to be forwarded to ED/OFT along
- 4. OFT shall verify all the documents as above and accord clearance to the firm for dispatch of the
- 5. OFT/Trichy shall verify all the parameters as per Table 'A' and after satisfactory results, the
- 6. Material has to be replaced 100% by the firm in case of non conformity to specification as per

## VERIFICATION OF INSPECTION DOCUMENTS

SL_NO	VERIFICATION OF INSPECTION DOCUMENTS	
1	The Raw material original Manufacturer's certificate, Details of Hi purchased and number of Bars etc.,  The Chemical and Mechanical test sense.	
2	The Chemical and Mechanical test certificates from NABL accredit Packing slip details.	eat Number, Quantity
4	Packing slip details.	ed approved Lab.
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