QUALITY MONITORING INSTRUCTION FOR INSPECTION

Issue No: 01 Rev No: Date of Issue

09/10/2023

C 1039 -01 (PAWL)

OFT/MI/30mm/C 1039-01

Rev.No	Amendment	Date

MATERIAL SPECIFICATION :

Sheet 5-3, GOST 19904-74 / 4-III-50, GOST-16523-70

INDIGENOUS MATERIAL

BS :1449 PT.1 -1983 GRADE. CS 60 (OR)

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IS:2507-1975 Grade 2, DESIGN 55C6.

CONDITION OF SUPPLY

FULL FINISHED WITH FIRM'S MATERIAL.

END USE

30mm CANNON.

INSPECTION CHECK TO BE CARRIED OUT

Table 'A'

SL NO	CHARACTERISTICS			SPECIFI	CATION	N/R	EQUIREMENT	SAMPLE SIZE
1.	Visual		The Component shall be free from defects such as rust, scale, burrs and any other harmful defects.			100%		
2.	Dimension		100% Dimension to check as per drawing.					
		Б-3,	GOS	ST 19904-74/	4-111-50	, GC	ST-16523-70	
				OST 1050-74)				
		С	=	0.47-0.55	Cu	=	0.25(Max)	
		Mn	=	0.50-0.80	S	=	0.035(Max)	
		Si	=	0.17-0.37	Р	=	0.030(Max)	
		Cr	=	0.25(Max)	Ni	=	0.25(Max)	
		BS 14	149	PT.1 1983 GR	ADE. CS	60		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	С	=	0.55-0.65	S	'=	0.045 (Max)	
	Chemical	Si	= '	0.05-0.35	Р	=	0.045 (Max)	0
3.	Composition (%)	Mn	=	0.50-0.90				One Sample Per Heat
	Composition (70)							reineat
			07::	1975 Design. 5	5C6			
- 1		C	=	0.50-0.60	S	=	0.050 (Max)	
		Si	=	0.10-0.35	P	=	0.050 (Max)	
		Mn	=	0.50-0.65				
	14	(Pern	niss	ible variations	in valu	ė as	per specification standard)	

		6-3, GOST 19904-74 / 4-III-50, GOST-16523-70 Tensile Strength 55-73 Kgf/mm² Relative Elongation 13% (Min)	
4.	Mechanical Properties	IS 2507:1975, Gr.1 Design. 55C6	One Sample Per Heat
		Tensile Strength Yield Stress Elongation 1180-1420 N/mm ² 1030 N/mm ² (Min) 6% (Min.)	
5.	Other Tests	Decarburization Test, Bend Test are carried out as per material specification standards.	
6.	Hardness	38.5-45.5 HRC (as per drawing)	100 %
7.	Protective Finish	Accelerated Electroless phosphating with chromate treatment/ Impregnation with adhesive δφ-4, ΓΟCT 12172-74, with Nigrosine, grade A, ΓΟCT 9307-78, one coat.	100 %
8.	Packing	The Packing of the Material shall be done in such a manner to avoid corrosion and damage in handling and transit.	Each
9.	Marking	Each Packing shall be legibly marked with manufacturer's identity, Qty, Heat No, OFT Supply order No etc.,	consignment

P.MURUGESAN HoS / QCM, CHECKED BY U.MANGALASAMY HoS/STD.CELL PREPARED BY

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> SUKESH GEHLAUT, Jt.GM (QCM) APPROVED

Note:

- The Raw material / component to be tested by the firm on selection of the sample by the firm itself for chemical composition and mechanical properties in NABL accredited approved Lab as per Table 'A'.
- 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
 documents to OFT.
 - 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.
 - II. The Chemical and Mechanical test certificates from NABL accredited approved lab as per Table 'A'.
 - III. Dimensional reports including visual as per Table 'A'.
 - 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 with supply.
- 4. OFT shall verify all the documents as above and accord clearance to the firm for dispatch of the material to OFT if all documents are in order.
- 5. OFT/Trichy shall verify all the parameters as per Table 'A' and after satisfactory results, the material will be accepted /cleared accordingly.
- Material has to be replaced 100% by the firm in case of non conformity to specification as per Table-A, during inspection at OFT, Trichy.

VERIFICATION OF INSPECTION DOCUMENTS

SL_NO	INSPECTION DOCUMENTS
1	The Raw material original Manufacturer's certificate, Details of Heat Number, Quantity purchased and number of Bars etc.,
2	The Chemical and Mechanical test certificates from NABL accredited approved Lab.
3	Dimension report including visual.
4	Packing slip details.

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CHECKED

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