QUALITY MONITORING INSTRUCTION FOR INSPECTION

Issue No: 01
Rev No:
Date of Issue

C-50	73 (HANDLE)	OFT/MI/30 mm/ C 5073.
Rev.No	Amendment	Date

MATERIAL SPECIFICATION

: Steel 30XPA OCT-3-98.

MATERIAL FOR INDIA

: BS:970 Pr1 1983 Gde 817 M40 IN 'Z' CONDITION (OR)

: IS5517-93,DESIGN 40 Ni6 Cr4 Mo3 (LRS 30mm)

CONDITION OF SUPPLY

: FULL FINISHED WITH FIRM'S MATERIAL.

END USE

: 30mm CANNON.

INSPECTION CHECK TO BE CARRIED OUT

Table 'A'

CTERISTICS		SPECIFICA	TION	/ RE	QUIREMENT		SAMPLE SIZE
de pit	fects, ts, die	, such as groove -marks and any c	s, sear other h	ns, arm	tears, rust, sca Iful defects.	possible from ale, scratches,	100%
sion 10	00% D	imension check a	s per o	lrav	ving.		
ST (A C Si M Cr B Si	S:970 s: 5:551 i :	OXPA OCT 3-98-8 Standard GOST 9 : 0.28-0.33 : 0.17-0.37 : 0.50-0.80 : 1.00-1.30 : 0.001-0.0045 OPT 1983 Gde 8 : 0.36-0.44 : 1.00-1.40 : 1.30-1.70 : 0.1-0.35 7-1993, Design 4 : 0.35 - 0.45 : 0.10 - 0.35 : 0.90 - 1.20 : 0.25 - 0.35	50:- 5160-7 Ni S P Cu 17 M4 Mn Mo P S O Ni6 C Mn S P Ni V	O) = = = = = = = = = = = = = = = = = = =	0.25-0.50 0.025(Max) 0.025(Max) 0.20 (Max) 0.45-0.70 0.20-0.35 0.025(Max) 0.025(Max) 0.40 - 0.70 0.035 (Max) 0.035 (Max) 1.25-1.75		One Sample Per Heat
	sion 10 Si (A) C Si M C C S	The Cordefects, pits, dies sion 100% D STEEL 3 (As per C = Si = Mn = Cr = B = Sis970 C = Cr = Ni = Si	The Component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects, such as groover pits, die-marks and any component shall be defects and any component shall be defects and any component shall be defected and	The Component shall be smooth defects, such as grooves, searn pits, die-marks and any other historia. STEEL 30XPA OCT 3-98-80:- (As per Standard GOST 5160-7) C = 0.28-0.33 Ni Si = 0.17-0.37 S Mn = 0.50-0.80 P Cr = 1.00-1.30 Cu B = 0.001-0.0045 BS:970 Pr1 1983 Gde 817 M4 C = 0.36-0.44 Mn Cr = 1.00-1.40 Mo Ni = 1.30-1.70 P Si = 0.1-0.35 S IS: 5517-1993, Design 40 Ni6 C C = 0.35 - 0.45 Mn Si = 0.10 - 0.35 S Cr = 0.90 - 1.20 P Mo = 0.25 - 0.35 Ni	The Component shall be smooth a defects, such as grooves, seams, pits, die-marks and any other harm 100% Dimension check as per draw sion STEEL 30XPA OCT 3-98-80:- (As per Standard GOST 5160-70) C = 0.28-0.33 Ni = Si = 0.17-0.37 S = Mn = 0.50-0.80 P = Cr = 1.00-1.30 Cu = B = 0.001-0.0045 BS:970 Pr1 1983 Gde 817 M40 C = 0.36-0.44 Mn = Cr = 1.00-1.40 Mo = Ni = 1.30-1.70 P = Si = 0.1-0.35 S = Si = 0.1-0.35 S = Si = 0.10-0.35 S = Cr = 0.90-1.20 P = Mo = 0.25-0.35 Ni = Si = Si = 0.25-0.35 Ni = Si =	The Component shall be smooth and as free as defects, such as grooves, seams, tears, rust, scapits, die-marks and any other harmful defects. Sion 100% Dimension check as per drawing. STEEL 30XPA OCT 3-98-80:- [As per Standard GOST 5160-70] C = 0.28-0.33 Ni = 0.25-0.50 Si = 0.17-0.37 S = 0.025(Max) Mn = 0.50-0.80 P = 0.025(Max) Cr = 1.00-1.30 Cu = 0.20 (Max) B = 0.001-0.0045 BS:970 Pr1 1983 Gde 817 M40 C = 0.36-0.44 Mn = 0.45-0.70 Cr = 1.00-1.40 Mo = 0.20-0.35 Ni = 1.30-1.70 P = 0.025(Max) Si = 0.1-0.35 S = 0.025(Max) IS: 5517-1993, Design 40 Ni6 Cr4 Mo3 C = 0.35 - 0.45 Mn = 0.40 - 0.70 Si = 0.10 - 0.35 S = 0.035 (Max) Cr = 0.90 - 1.20 P = 0.035 (Max) Mo = 0.25 - 0.35 Ni = 1.25-1.75	The Component shall be smooth and as free as possible from defects, such as grooves, seams, tears, rust, scale, scratches, pits, die-marks and any other harmful defects. 100% Dimension check as per drawing. STEEL 30XPA OCT 3-98-80: [As per Standard GOST 5160-70] C = 0.28-0.33 Ni = 0.25-0.50 Si = 0.17-0.37 S = 0.025(Max) Mn = 0.50-0.80 P = 0.025(Max) Cr = 1.00-1.30 Cu = 0.20 (Max) B = 0.001-0.0045 BS:970 Pr1 1983 Gde 817 M40 C = 0.36-0.44 Mn = 0.45-0.70 Cr = 1.00-1.40 Mo = 0.20-0.35 Ni = 1.30-1.70 P = 0.025(Max) osition (%) Si = 0.1-0.35 S = 0.025(Max) IS: 5517-1993, Design 40 Ni6 Cr4 Mo3 C = 0.35 - 0.45 Mn = 0.40 - 0.70 Si = 0.10 - 0.35 S = 0.035 (Max) Cr = 0.90 - 1.20 P = 0.035 (Max) Mo = 0.25 - 0.35 Ni = 1.25-1.75

				23073
		STEEL 30XPA OCT-3 Tensile Strength Yield Strength Elongation Reduction of area Impact	= 160 Kgf/mm ² (Min) = 130 Kgf/mm ² (Min) = 9% (Min) = 40% (Min) = 5 Kgfm/cm ² (Min)	
4.	Mechanical Properties	BS:970 Pr1 1983 Gd Tensile Strength 0.2% Proof Stress % Elongation Izod Impact	1550 N/mm² (Min) 1235 N/mm² (Min) 5% (Min) 8 ft.lb (Min)	One sample Per Heat.
	0.2	IS: 5517-1993, Design Tensile Strength 0.2% Proof Stress % Elongation Izod Impact	1500 Mpa Min (As Per Drawing) 1300 MPa (Min) 6% (Min) 11 Joules (Min)	
5.	Hardness	43.5- 51.5 HRC (As po	er drawing)	
6.	Protective Finish	Accelerated electroles	er drawing)	100%
7.	Packing	THE FACILITY OF THE IVI	ss Phosphating with chromate treatment. aterial shall be done in such a manner to image in handling and transit.	100%
В.	Marking	Each Packing shall be I , Qty, Heat No, OFT Su	egibly marked with manufacture () !	Each Consignment

P.MURUGESAN HoS / QCM, CHECKED BY

U.MANGALASAMY HoS/STD.CELL PREPAFED BY

M.GIRISH KUMAR REDDY,

WM(QCM)

SUKESH GEHLAUT, Jt.GM (QCM) APPROVED

Note:

- 1. 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
- 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 1. 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 11.
 - Dimensional reports including visual as per Table 'A'. 111.
 - Guarantee / Warrantee certificate of supplier against the supply. IV.
- 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 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.
- 6. 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	TOTION DOCOMENTS
1	The Raw material original Manufacturer's certificate, Details of Heat Number, Quantity purchased and number of Bars etc.,
2	The Chemical and Machanisal A
3	The Chemical and Mechanical test certificates from NABL accredited approved Lab. Dimension report including visual.
4	Packing slip details.

CHECKED

U.MANGALAS

HoS/STD.CELL PREPARED

M.GIRISH KUMAR REDDY WM/QCM

> SUKESH GEHLAUT Jt.GM(QCM) (APPROVED)