

Inspection Report

-	iption of the item	CHAMBER AFT MOTOR MO	01					
LA GWI	ig 110.	NASK 1134/1/5(P)				- 0 × 0		
Ser	Description of parameter	Nominal dimension as pe	Gruge used	Tolerance (As per drg/	Nature of	Observed dimension in	Deviation	Remai
L	External thread	150 x 12 TPI ButressThrea close class	d Screw ring 'Go' & 'No Go'	spec.)	Parameter Major	mm	in mm	
2	Internal thread	140 x 12 TPI ButressThread close class			Major			-
3	Length of external thread	32	googe	±0.3				
	Length without external thread	3		-0.1	Major Major			
	Length of Internal thread	24.5		±0.2	Major			
	Length	.36 70		±0.3	Major			
8 (Outer dia.	143.5		±0.3	Minor			
9 1	nner dia.	137.5	Plug 'Go' & 'No Go' gauge	+0.3	Major			
0 0	Outer dia,			+0,1	Major			
		148.8	Snap 'Go' & 'No Go' gauge	-0.1	Major			
	uter dia.	. 154	Snap 'Go' & 'No Go' gauge	±0.1	Major			
	uter dia.step Taper angle uter dia.	700			Major			
	ength	143.5		+0.3	Major			
_	ngth	140 112		±0.5	Minor			
	ngth .	102		±0.3	Major			
	ngth	86		±0.3	Major			
_	ngth	7.5		±0.3	Major			
Le	ngth	7.5		±0.2	Major			
Ou	ter dia.	148		±0.2	Major			
Ler	igth of outer dia 148	*		±0.2	Major			
	ernal thread	34 140 x 12 TPI ButressThread	Snap 'Go' & 'No Go' gauge	±0.3	Major			7
_	gth of above internal thread	close class	Snap 'Go' & 'No Go' gauge		Major			
M 1	40 x 12 TPI	28		±0.5	Major			
833	ped hole on outer dia.	M6x1	Screw plug 'Go' & 'No Go' gauge		Major			
hole	tre distance of above tapped from end	9		±0.2	Major			-
-	Length	685		±0.2				
al No	tes: -			3.0.2	Major			
			Note					
Mate	rial:- Steel to Spec BS: 970 (Pt.3)	-91 Gde 817 M 40 (EN 24)	16.9				Observation	ns
Harde	ened & Tempered in 'X' condition		715		-	167		
Gener	ral tolerance specification IS 2102	2 (Medium class)except for dime	nsions affecting total length					
General tolerance specification IS 2102 (Medium class)except for dimensions affecting total length. (a) Hydraulic pressure testing of 330 kgf/cm² are carried out as as acceptance test for duration of 1 minute for 100% stores.								
(b) P	ost hydraulic pressure test at ma	ximum expected operating press	HIP (MEOR 330Kof/cm2) DO To	minute for 100% store	s.			
(b) Post hydraulic pressure test at maximum expected operating pressure (MEOP 330Kgf/cm²) DP Test to be undertaken. (a) Proof pressure test of 420±5 Kgf/cm² for duration 10 sec, be carried out as qualification test on 01 motor for lot size quantity ≤100 Nos.								
				Test may be disconting	antity ≤100 Nos. nued after achiev	ng 520+ 1		
	 In case of safety/system limits to be phosphated to IS 3618 da 		cting authority.		- Compared to the control of the con	J. T.		
nterna	I surfaces to be coated uniform Dimension 137 +0.1 mm to be r	he wellth almost a series a	pendix C of ARDE/SPECN/334/	985 or APC 216 to C	nor 300-0040 F4	.00 average		
xterna	Surfaces marked you in the de-	under A. L		e la Curaraine con	200.0010-51	.os except	12	
	second coat & CHEMTHANE 330 hread to conform to Spec 15:4211		S:5 except threaded surfaces.	S I.E. CHEMZING 1000	as first coat, Ci	HEMPRIME	S	
	Thread to conform To Spec BS:1					1:4 , 1	* 1	
_								
	Itrasonic test as per IS:8791/98 turer's logo and Serial No. to be s D BS Buttress Thread 12 TPI close		to Spec 15 138 to 10 years to	be cold finished condit	ion & Annealed o	ondliton .		
0 x 2.0 0% th	D BS Buttress Thread 12 TPI close read gauging to be undertaken to	class from adapter side.	Dutters To 136 in 10mm letter	size at 45mm space fro	om commenceme	nt of		
se clas	read gauging to be undertaken to ss.	2.0 BS	buttress i nread 12 TPI close cl	ass & 140 × 2.0 BS Bu	ittress Thread 12	TPI		
eou p	rofile is to be checked on 10% of	the lot size.				1	<i>a</i> /1	. 1
and reduced to						the Contract of the Contract o	111	

G. HASTURI, Jung

HEPF, TRICHY

The HIGH ENERGY PROJECTILE FACTORY (HEPF) is an Indian Defence establishment under Munitions India Limited, A Government of India Enterprise, Ministry of Defence, for production of anti tank kinetic energy projectiles of various calibers and the factory is located about 25 kilometres from the main city of Tiruchirappalli.

SCOPE OF WORK

PR No: 2300163

MACHINING OF RGB60 CHAMBER AFT MOTOR FROM STEEL TUBE (OD 159MM ID 132.8MM AND LENGTH 700MM) AS PER DRG No: NASK 1134/1/5 (P) AND QUALITY ASSURANCE PROCEDURE (QAP)

- 1. Raw material, steel tube (OD 159mm ID 132.8mm and length 700mm) BS 970(Pt3)-91Gde 817 M40 (EN24), Hardened and Tempered to X condition and weight 33 KGs approximately will be supplied by HEPF.
- 2. The firm has to carry out only machining work of Chamber AFT Motor including pressure test & burst test.
- 3. The firm need not return the scrap generated during machining, however, the firm should submit their offer lowest by taking the cost of steel scrap of 24 kgs (approx) generated in machining into account.
- 4. The firm shall do all the test (pressure test for every component & burst test for one No out of 100 nos) and maintain the operation sequence as per drawing and QAP. The test to be carried out as per QAP in presence of inspection authorities.
- 5. The firm has to take utmost care to avoid material rejection due to dimensional/ process deviation during machining.
- 6. In case of rejection exceeds 2%, the existing cost of raw material will be recovered from the firm. The firm shall also return the rejected components to HEPF.
- 7. The firm should submit Bank guarantee for the cost of raw material for minimum50 Nos, and collect the material from HEPF store within 10 days of placement of supply order.
- 8. Firm should make their own arrangement (including loading/ unloading) for collection of raw material from HEPF stores and deliver the finished / accepted components to HEPF stores.
- 9. Firm should submit pilot sample along with dimension report within 15 days of receipt of raw material for prior approval.
- 10. The pilot sample submitted by the firm shall be inspected by HEPF Quality Control Section / inspection authority before bulk production.
- 11. After obtaining approval of pilot sample, the firm should maintain the delivery schedule of minimum 50 Nos for every week from the date of receipt of the raw material.

QUALITY ACCEPTANCE CRITERIA:

12. The components shall be inspected by Quality Control Section /HEPF or Navel Armament of Inspectorate (NAI) as per drawing and Quality Assurance Procedure (Inspection Report). If it is confirming to both drawing and Quality Assurance Procedure (Inspection Report) the same will be accepted.

Note: 1. Prospective bidders are free to visit HEPF before bidding, for understanding the operation.

2. In case of technical clarification the bidders may contact: 0431-2584-645 & 662, 0431-2584600 Extn: 271.

GO/MS

DO/MS

ODEME