

24
Inspection Report

	scription of the item	ADAPTOR MOD 1					E00	
Dia	iwing No.	NASK 1134/1/4/1(P)						
Se	Description of parameter	Nominal dimension as per drawing in m		Tolerance (As per drg/ spec.)	Nature of Parameter	Observed dimension in mm	Deviation in mm	Remark
Ada	ptor			L			*	
1	Outer dia	170						
2	External thread			-0.1	Major		•	
	780 E	165 x 12 TPI Buttres Thread close class	S Screw ring gauge		Major		38	
3	Inner step dia.	152		+0.5	Major			_
4	Inner step dia.	146		±0.2	Major			
5	Length of Inner dia(152).	12		+0.1	Major			13.
6	Inner length	22						
7	Inner length	35	T plate 'Go' &	+0.1	Major			
			'No Go' gauge	+0.1	Major			
8	Under cut width	4		+0.1	Minor			
9	Tapped hole (2 nos.)	M6 x 1	Screw plug 'Go' & 'No Go gauge		Major	(3):		
10	Centre distance of tapped hole	6	Depth H & L gauge .		Minor			
11	Inner length	52		+0.1	Major			_
12	Inner straight length	13		±0.1	Major		,	
13	Tapped hole (2 nos.)	M20 x 1	Screw plug 'Go' & 'No Go' gauge		Major			
	Pitch distance of M20 tapped hole	80		±0.3	Major	2-		
	M20 Tap hole counter dia.	27	Plug 'Go' & 'No Go' gauge	±0.2	Major			
	Other side Inner step dia. Other side Inner dia.	65		/±0.1	Minor	<i>-</i>		: 6
	Internal thread	117	3/4	±0.1	Minor 7			100
	* 1	150 x 12 TPI Buttress Thread close class	Screw plug 'Go' & 'No Go' gauge		Major		T H	
	Inner under cut width	3		±0.1	Minor		2 1	
	Outer under cut width	4		±0.1	Minor			
_	Collar step length	12		±0.2	Major			
_	Tapper length	38		-0.1	Major			11
Т	Tapper angle	12°		±30'	Major			-
	ap hole (1 no.)	M6 x 1	Screw plug 'Go' & 'No Go' gauge	230	Major			
fr	ap hole centre distance om edge	12		+0.1	Major			
	nner length	34	Depth H&L gauge	±0.1	Major			
	otal length	77		±0.2	Major			
	ia of Tommy Hole	12			Major			
	epth of Tommy Hole osition of Tommy Hole	8		±0.1	Major			
4,0	odon of Tolliny hale	32		±0.2	Major /		1	-

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Se	Description of parameter	Nominal dimension as per drawing in mn	Gauge used	Tolerance (As per drg/ spec.)	Nature of Parameter	Observed dimension in mm	Deviation in mm	Remark	
Tub	e - A								
1	Inner dia	51		±0:3	Minor	(4)			
2	Outer dia	60		±0.3	Minor				
Tub	e - B		* 1		V				
1	Inner dia	46	Plug 'Go' & 'No Go' gauge	±0.3	Major				
2	Inner dia	49		±0.3	Major				
3	Internal thread	M52 x 1.5	Screw plug 'Go' & 'No Go' gauge		Major	22			
4	Outer dia	60		±0.3	Major				
5	Outer step dia.	53	Snap 'Go' & 'No Go' gauge	±0.3	Major				
5.	Inner step length	18	Singe	±0.2	Major				
i	Inner step length	26	Depth H&L gauge	±0.2	Major				
8	Holes (3 nos) equispaced	6 1	Plug 'Go' & 'No Go' gauge	±0.1	Major				
9	Holes centre distance from end	32		±0.2	Major				
10	Inner step length		Plug 'Go' & 'No Go' gauge	±0.3	Major				
	Outer step length	60	Snap 'Go' & 'No Go gauge	±0.3	Major		mistig.		
12	Overall length	70	5,.5	±0.3	Major				
13	Tap hole (2 nos)	M6 × 1	Screw plug 'Go' & 'No Go' gauge		Major				
	Centre distance of tapped hole from end (2 nos.)	10	V → 30	±0.2	Major				
sem	bly of Adaptor, Tube A & T	ube B							
	Overall length	733.0		±0.8	Major				
	Concentricity	Within 0.2		- 1	Major	10	4		
ec T	Notes:		, Ýp. ,	1976			5,132	7	
G	Material for Adapter Steel to spec BS:970 (Pt.3)-91 Gde 817M40 (EN 24) Hardened &Tempered 'U' Condition Material for Tube A&B: Steel to spec ASTM A 106 Gde B General Tolerance specn. IS 2102 except specified. Welding of Tube and Adapter-concentricity be maintained within 0.2mm.							ions	
Ir	Surfaces to be phosphated to IS 3618 Class B. Internal surface of Adapter be coated with Zirconium Silicate to Appendix C of ARDE/SPECN/334/1985 or APC 216 to Spec JSS:8010-51 and external surface of Tube A & Tube B be coated with Zirconium Silicate or APC 216.								
Tu	ube-B and bush to be locked referred location as indicated dicated in Drg.NASK 1134/1(P	with 2 grub screws (M In NASK 1068/10, APC 5	6 x 1 x 5 with a	len head) during	r final accy of	rocket on applied as			
E) Cł	ternal surfaces marked XXX nemZinc 1000 as first coat, C	in the Drawing to be r	painted with PU p	paint colour dov ane 3300 as thi	e grey (three of coat) (ISC N	coats i.e.		6 9	
10 Th	ChemZinc 1000 as first coat, ChemPrime 3001 as second coat & ChamThane 3300 as third coat) (ISC No. 694 to IS:5) except threaded surfaces. 100% thread gauging to be undertaken to check major dia Thread profile is to be checked on 10% of the lot size.								
Bu	ttress Thread to conform to S tric Thread to conform to Spe								
Ma	nufacturer's logo and Serial N mm space from ends on surfa	lo, to be stencilled with bla	ack colour paint to d inner Ø150mm.	Spec IS 138 in 1 Tapped hole are	lOmm letter siz a to be avoided	e leaving d during	g-Arma-m		
ste	ncilling,	* · · · · · · · · · · · · · · · · · · ·	*****	ĭ.	\	(a) 1	er)		

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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: 2300 161

MACHINING OF RGB60 ADAPTOR FROM STEEL BLANK (OD 180 MM AND LENGTH 85 MM) AS PER DRG No: NASK 1134/1/4/1 (P) (Except TubeA & B) AND QUALITY ASSURANCE PROCEDURE (QAP)

- 1. Raw material, steel rod (OD 180mm and length 85 mm) BS 970(Pt3)-91Gde 817 M40 (EN24), Hardened and Tempered to U condition and weight 17 KGs approximately will be supplied by HEPF.
- 2. The firm has to carry out only machining work of Adaptor. (Except Tube A & B.)
- 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 13.25 kgs (approx) generated in machining into account.
- 4. The firm has to take utmost care to avoid material rejection due to dimensional deviation during machining.
- 5. 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.
- 6. The firm should submit Bank guarantee for the cost of raw material for minimum 50 Nos, and collect the material from HEPF store within 10 days of placement of supply order.
- 7. 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.
- 8. Firm should submit pilot sample along with dimension report within 15 days of receipt of raw material for prior approval.
- 9. The pilot sample submitted by the firm shall be inspected by HEPF Quality Control Section / inspection authority before bulk production.
- 10. 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

OIC/MS