MACHINED COMPONENTS (GROUP -IV)

			Nomenclature	
SI No	LF No	Drawing No		
1	6106401050	172.40.146	RING ENGAGING EXTREME RIGHT	
2	6106401051	172.40.147	INITIATING RING MIDDLE R.H	
3	6106401052	172.40.148	ENGAGING RING EXTREME LH	
4	6106401053	172.40.149	ENGAGING RING MIDDLE, LH	
5	6106401065	172.40.225	RELEASE RING III FRICTION CLUTCH	
6	6101040031	172.40.225-1	3RD FRICTION CLUTCH RELEASING RING	
7	6106401068	172.40.229	BOOSTER INNER	
8	6106401070	172.40.231	BOOSTER	
9	6106401071	172.40.232	BOOSTER	
10	6106401084	172.40.246	EPICYCLE OF TRAIN IV	
11	6106401085	172.40.247	GEAR CROWN 3RD PLANETORY GEAR SET	
12	6106401096	172.40.270	BOOSTER	
13	6101040033	172.40.270-1	BOOSTER	
≉14	6106401097	172 <i>.</i> 40.271	CROWN	
15	6106401098	172.40.308	DISCHARGE RING	
16	6101040041	172.40.308-1	RELEASE RING	
17	6101040042	172.40.309	CROWN GEAR OF 2ND PLANETARY GEAR SET	
18	6101040043	172.40.310	CROWN GEAR OF 3RD PLANETARY GEAR SET	
19	6101040044	172.40.311	EPICYCLIC GEAR OF 4TH PLANETARY SET	
20	6101040052	172.40.319	DRUM	
21	6101040053	172.40.320	CROWN	
22	6101040054	172.40.321	BOOSTER	
23	6101040055	172.40.322	INNER BOOSTER	
24	6101040056	172.40.323	INNER BOOSTER	
25	6101040057	172.40.324	BOOSTER	
26	6101040059	172.40.326	THRUST DISK	
27	6101040061	172.40.328	RIGHT HAND REAR ENGAGING RING	
28	6101040062	172.40.329	RIGHT-HAND MIDDLE ENGAGING RING	
29	6101040063	172.40.330	LEFT HAND REAR ENGAGING RING	
30	6101040064	172.40.331	LEFT-HAND MIDDLE ENGAGING RING	
31	6101040108	172.40.366	STOPPING BRAKE HOUSING (RIGHT-HAND)	
32	6101040109	172.40.367	STOPPING BRAKE HOUSING (LEFT-HAND)	
33	6106404014	172.43.008	PACKING COVER	
34	6106401118	175.40.021	HOUSING OF MAIN BRAKE RH	
35	6106401119	175.40.022	HOUSING OF MAIN BREAKE L	
36	6106401120	175.40.023	BOOSTER INNER	
37	6106401127	175.40.025	CROWN GEAR OF 2ND PLANETARY GEAR SET	
38	6106401128	175.40.026	DRUM	
39	6106401126	175.40.027-2	BOOSTER OUTER	
40	6106401131	175.40.030-1	BOOSTER	
41	6106401132	175.40.031	THRUST DISC	
42	6106401146	175.40.052	BOOSTER BODY RIGHT	
43	6106401147	175.40.053	HOUSING LH BOOSTER	
44	6106402034	175.41.050	HUB FAN STEEL 38XC	
45	6106402035	175.41.051	PLATE PRESSURE	
46	6106406229	175.45.112	TOOTHED COUPLING	
47	6101041013	188.41.006	FAN HUB	



				MACHINED COMPONENTS (GROUP -IV)	310000000000000000000000000000000000000		
SI no.	Nomenclature & drawing No.	/ Inspection	g technology & Testing Facilities required to luce the item	Must be possessed by the vendor in his premises (P&M list and testing / inspection equipment list to be submitted)	May be possesed by the vendor in his premises or out sourced (Self declaration to be submitted)	FIRM Comp- liance (Y/N)	Remarks
	Components as per enclosed list of Machined Components (Group IV)	TECHNOLOGY-I	Turning	CNC Turning dia 600mm suitable to accommodate component of diameter in the range of dia 250 to 600mm with 0.010mm accuracy	1		
Į I	Total items =		Milling & Drilling	HMC and/or VMC suitable to the components upto the size 630mm diameterwith 0.010 accuracy			***************************************
			Gear Hobbing		Gear Hobbing of Mod 3 x cutting ø400 with gear cutting accuracy of class of Din 7 or better accuracy		**************************************
			Gear Shaping		Gear Shaping of Mod 5 with gear cutting accuracy of class of Din 7 or better accuracy.		
1		TECHNOLOGY-3	Hardening & Tempering		Hardening & Tempering furnace with Oil quenching facility		
			Protection coating		Oxidising Plant		
n grand data da		TECHNOLOGY-4	Raw material		Firm should be capable to arrange the raw material like Forging, Casting, Bar material etc as per drawing specification and standard.		

(D.SATHISH KUMAR)
WM/QA(NF& QMSC)

(LUXMAŇ SINGH) WM/TRG-II,HT & EP (K.DURAIRAJ) JWM/Trans -II

SI no.	Nomenclature & drawing No.	/ Inspection I	Facilities required to	Must be possessed by the vendor in his premises (P&M list and testing / inspection equipment list to be submitted)	May be possesed by the vendor in his premises or out sourced (Self declaration to be submitted)	FIRM Comp- liance (Y/N)	Remarks
	Components as per enclosed list of Machined	TEST / INSPECTION-1	3D CMM	3D CMM 500 x 500mm.			
4	Components (Group IV)		Gear Profile Tester		Gear Profile Tester (Max module 5)		
			Surface Roughness Tester	Surface Roughness Tester for Ra &Rz values			
			Gauges	Standard Gauges for checking Holes and threads suitable to the requirement of the components. Firm should submit the undertaking in this regard that they will create the facilities within 6 months from the date of receipt of order.			
			Measuring Instruments	Gear Teeth Micrometer, Vernier Caliper, Groove Vernier, Radius gauge, Feeler Gauge etc. suitable to the requirement of the components			
		TEST / INSPECTION-2	Hardness measurement		Brinell / Rockwell Hardness Tester		

Note: Justification for alternate facilities may be shared to prove that alternate facilities can be utilised to manufacture the item wherever the facilities are mentioned above are not available, but vendor has alternate facilities.

(D.SATHISH KUMAR)
WM/QA(NF& QMSC)

(J.P.SINGH)

GM-OPERATONS I

(LUXMAN SINGH)

WM/TRG-II,HT & EP

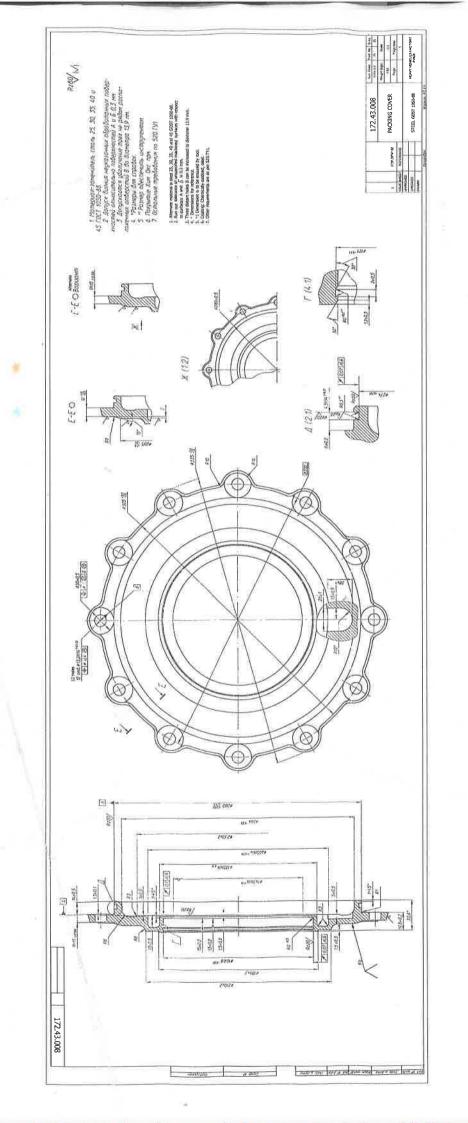
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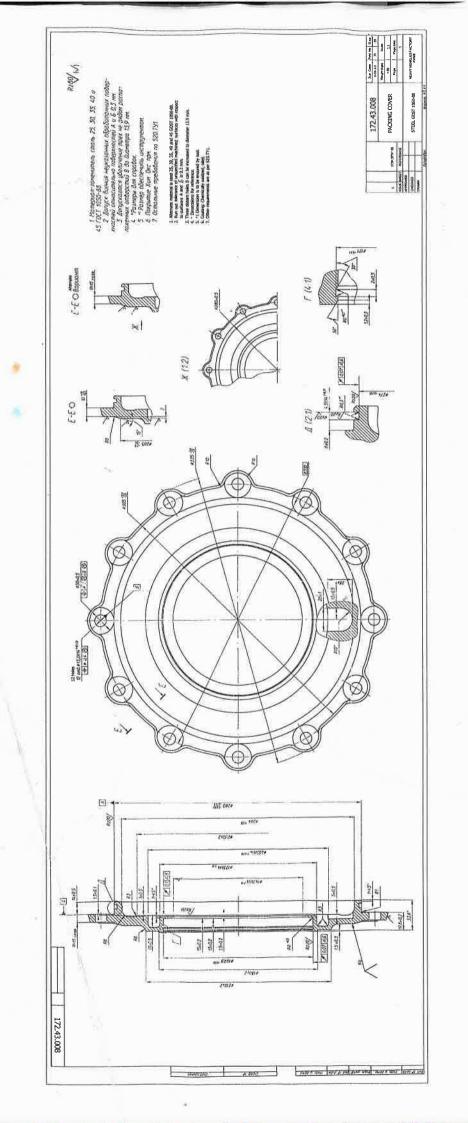
QA-RIG(OE)

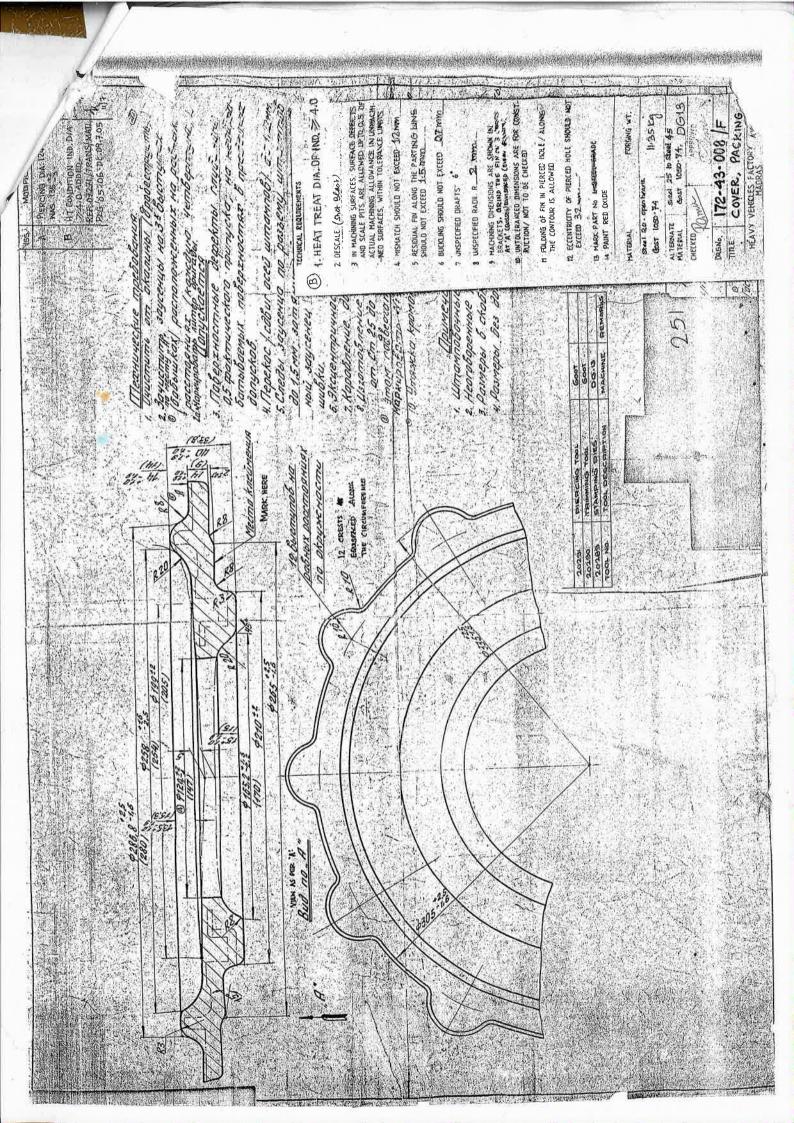
K.DURAIRAJ)

JWM/Trans -II

(ANIMÉSH PAIK)
DGM/CA,TRG & RG







RESTRICTED (DRAFT / PROVISIONAL) QUALITY ASSURANCE PLAN

FOR

(PACKING COVER)

DRG.NO.172.43.008

(LF NO: 6206404014)

No: HVF/T-72C/QAP/43/PACKING COVER/243380- 00

ISSUE No: 00

DATE: JAN - 2022

QUALITY ASSURANCE (RIG-SUB ASSEMBLY)

HEAVY VEHICLES FACTORY

AVADI CHENNAI – 600 054

QUALITY ASSURANCE PLAN (QAP)

FOR

PACKING COVER

DRG. NO. 172.43.008

PREPARED BY

REVIEWED BY

(C.NANDA KUMAR) JWM/QA (RIG-SA)

(HANÚMANTHA RAO GOLLA) JWM/QA (RIG-SA / TA)

APPROVED BY

(SUBHAM BIJLWAN) AWM/QA-RIG-(SA)

ISSUED BY

QUALITY ASSURANCE (RIG- SUB ASSEMBLY)
HEAVY VEHICLES FACTORY
AVADI CHENNAI – 600 054

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1.IMPORTANT NOTE

Note-1

This is only a provisional and will be amended from time to time according to the requirement. No addition, deletion and reproduction will be done without permission of The Sr. General Manager, Heavy Vehicles Factory, Avadi, Chennai – 54.

Note -2

Any instruction contained in this does not prejudice the terms and conditions of the contract what so ever. In case of any contradiction between the contents of this QAP and the clause in the contract, the latter will prevail.

Note-3

The stores should be manufactured strictly only as per the drawings supplied by the Inspection Authority and not as per the samples, if any received by the manufacturer for guidance purpose.

Note-4

Any amendment issued by the Inspection Authority shall be incorporated in the QAP and the records for the amendments carried out should be maintained as per the Performa at Appendix-"A".

Note-5

In case of any contradiction between the contents of this QAP and drawings issued along with the contract, the latter will prevail.

2.INTRODUCTION

- 1. This quality plan lays down the inspection and testing procedure to be carried out on the component PACKING COVER TO DRG.NO 172.43.008 being procured indigenously. This is prepared, based on the acceptance standards and inspection parameters laid down in collaborators documents and on the inspection test standards followed in respect of similar indigenous items.
- 2. This QAP is the property of Government of India and is liable for amendments as and when required. The Sr. General Manager, Heavy Vehicles Factory, Avadi, Chennai 600 054, is the inspecting Authority for this assembly. Any query / clarification on the content of this QAP shall be referred to this Factory. Any departure from these instructions is allowed only after written approval from the above authority. Notwithstanding the tests indicated in this QAP, the inspecting Officer has the right to carry out any test to check conformance to the paper particulars quoted in the Supply Order, which he may consider necessary to satisfy himself about the stores which he has to accept.

3.AIM

The QAP is aimed at standardizing the Inspection procedure and acceptance norm for PACKING COVER TO DRG.NO: 172.43.008

It also aims at giving adequate information to the manufacturer on the quality requirements so that the required quality control methods are established. This is also meant to guide authorized Inspection Officer in his routine inspection

and to set out main points to which his attention must be drawn to ensure that the accepted stores meet the stipulated standards.

4. SCOPE:

This QAP outlines in general terms, the checks and methods to be used during inspection of **PACKING COVER TO DRG. NO. 172.43.008** including the technical requirements of the drawings. The recommended Quality Plan stipulated herein is mandatory and should be strictly adhered to.

For inspection purpose, only the latest issue of this QAP will be made applicable and copies of this QAP can be obtained from the issuing authority i.e. The Sr. General Manager, Heavy Vehicles Factory, Avadi, and Chennai.

Note:

- i. Tender enquiry (TE) and supply order (S.O) will be issued with QAP stating that inspection will be done as per QAP.
- ii. In case of TE, It is responsibility of the vendor to obtain the copy of QAP and give the statement of compliance that vendor will abide by the QAP in case supply order is placed.
- iii. In case of S.O, it is the responsible of the vendor to obtained copy of QAP and give the statement of compliance that the vendor will follow QAP. However, GM/HVF reserves the right to revise/update the QAP from time to time.

5. DOCUMENTS:

- a) On placement of firm supply order, One set of relevant specification and technical instructions on the subject item can be obtained by the contractor from AHSP through DDO/HVF
- b) Any clarification required on these documents should be obtained from the Inspecting Authority i.e. The Sr. General Manager, Heavy Vehicles Factory, Avadi, Chennai 600 054. Equivalents to the collaborators specifications and standards will be decided only by the Inspecting Authority and should not be unilaterally decided. For any change in the specifications, standards or written approval, any alterations in specification can be affected and not otherwise.
- c) The process instruction sheets supplied by the collaborators are available with the Authority Holding Sealed Particulars, i.e. The Controllerate of Quality Assurance (Heavy Vehicles), Avadi, Chennai for the reference. The relevant process sheets may be studied at the premises of the AHSP after obtaining necessary permission.
- d) The supplier after scrutiny of the concerned process sheets and connected paper particulars should establish the necessary production and inspection facilities. Particularly the inspection test rigs, stands, fixtures, template, gauges etc should be provided as recommended in these process sheets. If process sheet / Process Book is not available the details particulars/parameters available in the drawings to be strictly adhered.

6. ITEM USED ON:

- 1. 172.43.004CB
- **2.** 175.42.004CBCB

7. LIST OF DRAWINGS:

Single (individual) item

SI.	DRG. NO	NOMENCLATURE	REMARKS
NO.			
1	172.43.008	PACKING COVER	-

8. BILL OF MATERIALS:

Single (individual) items, details as below,

SI. NO	DRG. NO	NOMENCLATURE	MATERIAL SPECIFICATIONS	Qty
1	172.43.008	PACKING COVER	STEEL 20 GOST 1050-88	1

Note: Vendor/Contractor may use approved alternate material if any specified in drawing/ specification. *Also refer Para 13.

9. CONDITIONS OF USE / STORAGE INSTRUCTIONS

This assembly/item should be properly packed to protect from transit / handling damage and influence of atmospheric precipitations. In addition, the following parameters should be ensured:

- (a) The threaded parts if any should be covered with suitable plastic caps to prevent damages.
- (b) If the item consists of assemblies, each assembly should be packed separately.
- (c) The stores are to be suitably covered for preventing ingress of dust and Dirt/entry of sunlight / moisture.
- (d) The packaging slip shall contains
 - (i) Certificate of testing- NABL Certificate.
 - (ii) Guarantee/ Warranty Certificate.
 - (iii) Service and maintenance instructions.
 - (iv) Delivery Slip with Inspector's Acceptance Mark.
- (e) The stores are not permitted to be stored together with oils. Petrol, acids, alkaline and other substances to avoid damage to the metal / rubber components.

10. SAMPLING PLAN:

SI. No.	Sampling Plan	Pilot	Bulk
(i)	Visual Inspection	100%	100%
(ii)	Dimensional Inspection	100%	General Inspection level III, single sampling, Normal Inspection, AQL 2.5 of IS 2500 (Part-I)-2000
(iii)	Material Inspection	1 No	No. for each batch of raw material or heat treatment lot as required by specifications.
(iv)	Acceptance test	100%	100%
(v)	Pressure testing	**-*-	
(vi)	Machining / Fitment / Performance trial on higher assembly / Tank	01 No.	01 No. per batch / As required.
vii)	Interchangeability Test	02 Nos.	02 Nos. per batch on randomly basis, except selective assembly.
Viii)	Test stand/Jigs/ Fixtures/Gauges/Man drels/etc.	100 %	100 %
ix)	Marking/Identification	100%	100%
x)	Packing/ Preservation	100%	100%

Note:-

A New (First time supplier of this item) supplier should obtain clearance from HVF for bulk production which will be issued only after inspection/evaluation of pilot samples by HVF.

11. VISUAL INSPECTION [Sampling plan as per Para- 10 (i)]

The stores are to be visually examined on 100 % of pilot /bulk and same should be free from any defects and all the finishing requirements shall satisfy as indicated in technical conditions of the assembly / component drawing.

The components shall be checked for the following and should be free from the defects:

- Defects in construction
- Cracks/Dents/Scratches
- Fitment of all components
- Presence of foreign particles
- Moisture and dust

- Corrosion of metal parts
- Mechanical imperfections & distortion
- · Any form of deterioration of material and finishing.

Packing and preservation should be ensured as per drawings/relevant TY specification (To be ensured on receipt at consignee end).

12. DIMENSIONAL CHECK [Sampling plan as per Para- 10(ii)]

The dimensions of individual component, sub assembly and major assembly shall be checked and ensured as per respective drawing. Dimensional check should be carried out as per sampling plan. However, the inspecting authority/rep. may at his discretion, tighten the inspection level and acceptance quality level on the critical items and adopt check point during manufacture.

12.1 PACKING COVER TO DRG.NO 172.43.008

- 1. 1. All dimensions shall be confirmed as per drawing/specification
- 2. Surface finish/Roughness should be confirmed as per drawing and specification.
- 3. For admissible alternate method for manufacture in dimensions/material if any, refer drawing/specification.

13) MATERIAL CHECKS [SAMPLING PLAN AS PARA – 10 (iii)].

Material specimen / test bars of the components shall be in conformity as per the material mentioned in the relevant documents/drawing. NABL test reports for all the parameters as per relevant specifications to be submitted. Test samples to be submitted by the vendor to HVF, if required. The material check will be carried out as per sampling plan. * However, if the manufacturer proposes any alternative material at the stage of tender enquiry, the same has to be approved and a written concurrence should be obtained from AHSP through DDO/HVF, before usage of such materials.

13.1 PACKING COVER TO DRG.NO: 172.43.008

- a) The component should be manufactured from STEEL 20 GOST 1050-88.
- b) Chemical properties: As per STEEL 20 GOST 1050-88.

	CONTENT OF ELEMENTS %						
^	C:	n a	Cr	Ni	S	P	Cu
C	31	Mn			MAX		
0.17	0.17	0.35					
to	to 0.37	to	0.25	0.30	0.040	0.035	0.30
0.24	10 0.57	0.65					

Note: For mass fraction of other elements refer GOST 1050-88.

c) Mechanical properties: As per STEEL 20 GOST 1050-88. For details refer STEEL 20 GOST 1050-88.

14) PERFORMANCES/ACCEPTANCETEST: PACKING COVER to Drg. No. 172.43.008

- 1. Alternate material is steel 25, 30, 35, 40 and 45 GOST 1050-88.
- 2 Run out tolerance of unspecified machined surfaces with respect to surfaces A and \mathcal{B} is 0.3 mm.
- 3. Three distant holes B can be increased to diameter 13.9 mm.
- 4. * Dimensions for reference.
- 5. *1 Dimension is to be ensured by tool.
- 6. Coating: Chemically oxidized, oiled.
- 7. Other requirements are as per 520.TY1.

15) FITMENT AND PERFORMANCE TEST:

- a. Pilot samples should be checked for fitment and Performance test to ascertain the efficacy of the system under different operating conditions by fitting in higher assembly and repeating it for functional checks, wherever
- b. Items of Bulk supplies may be subjected to performance trial in tank in case of repeated failure/defects during exploitation.

Explanatory Note

- 1. Stage wise inspection and process of the component as specified in TD Book / Process Book / illustration book is to be confirmed by the supplier during manufacturing the components.
- 2. Firm shall submit the inspection process details/reports to HVF.
- 3. If required/applicable HVF shall witness/verify stage wise inspection/process details during manufacturing of the components.
- 4. The component may be subject to endurance test, when fitted in higher assembly as specified in process/ illustration/ TD book.

16) INTERCHANGEABILITY:

The assemblies/component should be interchangeable component wise and assembly wise, except the Component are to be supplied as a set and to be assembled selectively as per sampling plan.

17) CALIBRATION CHECKS

(TEST STANDS/JIGS/FIXTUERS/GAUGES/INSTRUMENTS):

The supplier / Contractor should have suitable Instruments, Test Stand, jigs, fixture, mandrels and gauges to carry out quality checks, to ensure conformance of components/assembly as per drawing and Specification /T.R points.

The supplier / contractor should submit calibration reports for instruments/fixtures/gauges/mandrels etc., which are used during process of inspection activities.

18) MARKING / IDENTIFICATION.

Marking of the items is to be carried out as called for in the relevant drawing, drawing/T.R points.

Inscription if any on the components is to be carried out as called for in the drawing/T.R points. Unless otherwise specified in the drawing/ specification, marking should not be carried out over the components.

For traceability, marking of part No., Manufacturer name, supply order No, Serial No/Qty, batch No. and manufacture date & year are to be carried out. Suitable method can be adopted, provided that the above parameters are legible and considering the parameters mentioned in the drawing and specification.

19) PRESERVATION CHECK

- a) Preservative coatings are to be strictly adhered to as called for in the drawing. However, equivalent BIS Standards can also be followed, subject to the thickness of the coating/preservative is maintained as per the drawing/specification.
- b) Other preservations as necessary to prevent damages due to moisture and dust during process, storage and transit are to be carried out. Conventional Methods can also be resorted to.

20) PACKING CHECK

Components / Assemblies are to be packed separately to avoid damages during transit / handling of the same. Part No. and No. of sets are to be marked on the packing.

Packing and preservation should be ensured as per drawings/relevant TY specification (To be ensured on receipt at consignee end).

Finished products shall be wrapped / packed using black and opaque polyethylene sheet or bags.

21) **DOCUMENTATION**

- 1. Firm has to maintain all the documents as per QAP with respect to the SI.No.to have traceability.
- 2. Vendor has to submit Bill of materials, Material test reports, Class 'C' /Endurance test reports (wherever specified in drawing/TY specification/QAP) and Complete PIR (pre-inspection report)at the time of offering the item for

- inspection. HVF will commence inspection only after scrutiny of these
- 3. The testing/inspection responsibility to test all the parameters as per QAP and drawing specifications as mentioned in Annexure -A (enclosed).
- 4. Pre inspection reports (PIR) of firm like, 1. Chemical analysis (NABL Certificate), 2.Mechanical properties (NABL Certificate), 3. Pre-forming process, 4. Coating certification (Wherever applicable), 5. Calibration reports of instruments and 6, 100 % Dimensional inspection reports.

22) REFERENCE:

a) Drawing No: 172.43.008

b) Material specification as per drawing:

a) l b) l	Material specificat	ion as per d rawing :	MATERIAL
SI. NO	DRG. NO	NOMENCLATURE	SPECIFICATIONS
1.	172.43.008	PACKING COVER	STEEL 20 GOST 1050-88.
			and the state of t

- c) GOST 1050-88.
- d) Specification 520.TY1.
- e) Alternate Material:
 - 1. STEEL: 25, 30, 35, 40 and 45 GOST 1050-88.

SL.	CATEGORY	ASSEMBLY/ SUB	TESTS/ INSPECTION	STANDARDS TO BE	ACCEPTANCE	RES	INSPECTION RESPONSIBILITY	N LITY	REMARKS
S		ASSEMBLY	PARAMETERS	KEFEKKEU	CRITERIA	Firm	HVF	DGQA	
<u> </u>		Pre inspection reports (PIR) of firm	Firm has to produce all the document as per QAP	As per the relevant drawing and QAP.	Confirm to drawing and QAP as per bill of material	Δ.	>	œ	100% by firm/ vendor.
		Bill of material (BOM)	Firm has to prepare the BOM as per QAP	Refer QAP Para no: 8 or item list.	Confirm to QAP	Ф.	>	œ	100% by firm/ vendor.
	PACKING	Material tests	Chemical composition & Mechanical / Physical Properties	As per GOST 1050-88.	All the values to confirm with QAP (Para no:13.1 (a),(b)	<u>c</u>	Λ/N	Œ	SP followed by HVF.
	COVER TO DRG. NO	Coating check	Chemically oxidized, oiled	Refer QAP Para no: 14(6)	Confirm to QAP Para no: 14(6).	ο.	N/W	œ	SP followed by HVF.
	172.43.008	Dimensional checks	Dimensions as per the drawing	Refer drawing / QAP Para no: 12.1	Confirm to drawing and QAP	Δ.	W//P	Œ	100% by firm/ vendor SP followed by HVF
		Marking / traceability	Marking / traceability	Refer QAP Para no:18	Confirm to QAP Para no: 18	<u>a</u>	>	α.	100% by firm/ vendor.
		Preservation & packing	Preservation & packing	Refer QAP Para no 19 & 20	Confirm to QAP Para no 19 & 20	Ф	>	ĸ	100% by firm/ vendor.

Note:

For conformity of the items (Chemical/Physical/Mechanical properties).

1. One sample per heat / batch shall be tested under NABL Lab/Govt. Approved lab by firm. In case of non-compliance to standards entire lot shall be rejected or not to use in production further.

2. For cross conformation of material, manufacturer has to submit test sample pieces for the items used / test slab and button for rubber items / HVF will draw samples from supplied lot for Witnessing (W) at HVF premises. In case of non-compliance to standards entire lot will be rejected.

V-Verify	
W- Witness V-Verify	
	The state of the s

R-Review

SP-Sampling Plan

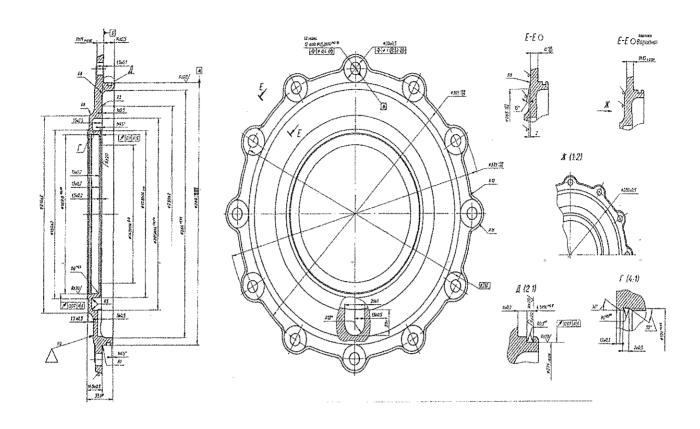


FIG: PACKING COVER TO DRG.NO.172.43.008

APPENDIX 'A'

RECORD OF AMENDMENTS

SI. No	Amendment No. & date	Amended by	Date of Insertion	Initial
-				