MACHINED COMPONENTS (GROUP -IV)

-1			Name of the state
SI No	LF No	Drawing No	Nomenclature
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	172.40.271	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 grande de la constante de la		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

(LUXIMAN SINGH)
WM/TRG-II,HT & EP

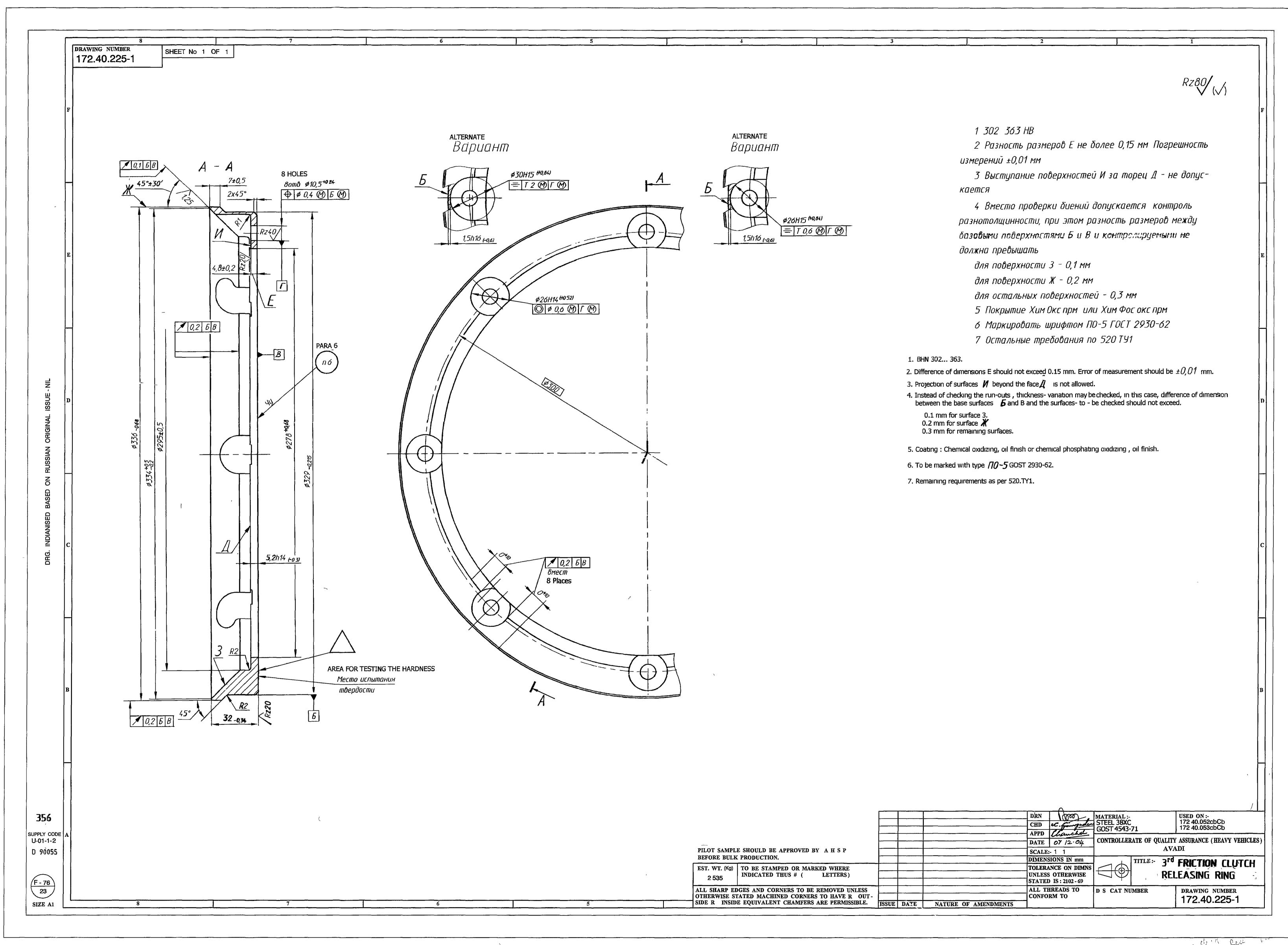
合作和 (NEERAJ KUMAR)

QA-RIG(OE)

(K.DURAIRAJ)

JWM/Trans -II

(ANIMÉSH PAIK)
DGM/CA,TRG & RG



RESTRICTED (DRAFT/PROVISIONAL) QUALITY ASSURANCE PLAN

FOR

(RELEASE RING 3RD FRICTION CLUTCH)

DRG.NO.172.40.225-1 -

(LF NO:6201040031) /

No.HVF/T-72C/QAP/40/RELEASE RING 3RD FRICTION CLUTCH/241099-00

ISSUE No:00

DATE:JULY-2024

QUALITY ASSURANCE (RIG-SUB ASSEMBLY)

HEAVY VEHICLES FACTORY

AVADI CHENNAI - 600 054

QUALITY ASSURANCE PLAN (QAP)

FOR

RELEASE RING 3RD FRICTION CLUTCH

DRG. NO. 172.40.225-1

PREPARED BY

(G.HANUMANTHA RAO) JWM/QA (RIG-SA /TA) REVIEWED BY

(C.NANDAKUMAR) JWM/QA (RIG-SA)

APPROVED BY

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

ISSUED BY

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

SI. no	CONTENTS	PAGE .No.
1.	IMPORTANT NOTES	4
2.	INTRODUCTION	4
3.	AIM	5
4.	SCOPE	5
5.	DOCUMENTS	5
6.	ITEM USED ON	6
7.	LIST OF DRAWINGS	6
8.	BILL OF MATERIAL	6
9.	CONDITIONS OF USE/ STORAGE INSTRUCTIONS	6
10.	SAMPLING PLAN	7
11.	VISUAL INSPECTION	8
12.	DIMENSIONAL CHECKS	8
13.	MATERIAL CHECKS	9
14.	ACCEPTANCE / PERFORMANCE TESTS	9
15.	FITMENT AND PERFORMANCE TEST	10
16.	INTERCHANGEABILITY	11
17.	CALIBRATION CHECKS	11
18,	MARKING/IDENTIFICATION	11
19.	PRESERVATION CHECK	11
20.	PACKING CHECK	12
21.	DOCUMENTATION	12
22.	REFERENCE	13
23.	ANNEXURE - A	14
24.	FIGURE	15
25.	APPENDIX - A	16

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.

Hote-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".

Hote-5

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

Z.INTRODUCTION

- 1. This quality plan lays down the inspection and testing procedure to be carried out on the component RELEASE RING 3RD FRICTION CLUTCH 172.40.225-1being 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.AIN

The QAP is aimed at standardizing the Inspection procedure and acceptance norm for RELEASE RING 3RD FRICTION CLUTCH- to Drg no. 172.40.225-1.

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.

SCOPE:

This QAP outlines in general terms, the checks and methods to be used during inspection of RELEASE RING 3RD FRICTION CLUTCH to Drg. no-172.40.225-1 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, 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. Refer drawing

7.LIST OF DRAWINGS:

Single (individual) item

SI. NO.	DRG. NO	NOMENCLATURE	REMARKS
1	172.40.225-1	RELEASE RING	-
1		3RD FRICTION	
		CLUTCH	

8. BILL OF MATERIALS:

Single (individual) item, details as below,

	• •	·			
SI.	DRG. NO	NOMENCLATURE	MATERIAL	Qtv	
NO	DAG. NO	WOMEN CLANT OF	SPECIFICATIONS	ers.	
4	172.40.225-1	RELEASE RING 3RD	Steel 38XC To GOST	1	
•	172.40.225	FRICTION CLUTCH	4543-71	tr.	ļ

Note: Vendor/Contractor may use approved alternate material as per drawing. 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)
 - (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.	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	1 No. for each batch of raw material or heat treatment lot as required by specifications.
(iv)	Acceptance test	****	1 Mar 100 May 107 May 107 May 108
(v)	Pressure testing	****	tipe dat on had be for had
(vi)	Machining/Fitment/ Performance trial on higher assembly / Tank	01 No _	/ 1 No
(vii)	Interchangeability Test	02 Nos.	02 Nos.per batchon 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:-

^{*} This clause is applicable if mentioned in supply order or project sanction order.

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.

12.1RELEASE RING 3RD FRICTION CLUTCH(172.40.225-1)

All dimensions shall be confirmed as per drawing/Specification.

Si. No.	Drawing Dimensions
(i)	32 _{-0,34} mm
(ii)	R2
(III)	45 ⁰
(iv)	[d 0,2 [6] B]
(v)	R2
(vi)_	Ø336 _{-0.68} mm
(vii)	Ø334 ^{+0.5/-0.2} mm
(viii)	Ø295±0.5mm
(ix)	▼ 6.2 6 B

(x)	4,8±0,2mm
(xi)	R1
(xii)	45 ⁰ ±30 mm
(xiii)	Ø 0.1 5 B
(viv)	7±0,5mm
(xv)	2x45 ⁰
(xvi)	Ø10,5 ^{+0.24} mm 8HOLES
(xvii)	
(xviii)	Ø278 ^{+0.68} mm
(xix)	Ø329 _{-0.215} mm
(xx)	5,2h14 _(-0.3) mm
(ixxi)	O ⁺¹⁰
(xxii)	▼ 0,2 5 8 8Places
(iiixx)	0+10
(xxiv	Ø300
(xxv)	(O) \$ U,0 (M) [M)
ivxx)	Ø26H14 ^(+0.52) mm
(xxvi	Area for Testing the Hardness
(xx v i	Surface Finish/ roughness should be confirmed as per the drawing / specification.

For admissible alternate manufacture if any in dimensions/material, referdrawing/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. The material check will be carried out as per sampling plan. However, if the manufacturer proposes any alternative/equivalent 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 RELEASE RING 3RD FRICTION CLUTCHto Drg. No. 172.40.225-1

a) The component should be manufactured from STEEL 38XC GOST 4543-71.

b) Chemical properties: As per STEEL 38XC GOST 4543-71.

		CONTEN	t of El	EMENTS	%		
~	Si		Cr	Ni	S	p	Cu
Name of the last o	. 31	14121			MA	ιX	
0.34	1.00	0.30	1.30				
to	to	to	to	0.30	0.035	0.035	0.30
0.42	1.40	0.60	1.60	,	-		

Note: For mass fraction of other elements refer GOST4543-71

c) Mechanical properties: As per STEEL 38XC GOST4543-71

Yield point, N/mm2/kgf/ mm2	Ultimate strength N/mm2 (kgf/mm2)	Elongation %	Relative reduction of area %	•	Hardness(H B)
	Not	Less than			
735 (75)	930 (95)	12	50	••	302-363

For other details/parameters refer GOST 4543-71.

14) <u>PERFORMANCES/ACCEPTANCETEST: RELEASE RING 3RD FRICTION CLUTCH172.40.225-1.</u>

The following technical requirements shall be confirmed for acceptance of the component.

- 1. BHN 302... 363.
- 2. Difference of dimensions E should not exceed 0.15 mm. Error of measurement should be ± 0.01 mm.
- 3. Projection of surfaces \mathcal{U} beyond the face \mathcal{U} is not allowed.
- 4. Instead of checking the run-outs, thickness-variation may be checked, in this case, difference of dimension between the base surfaces δ and B and the surfaces- to be checked should not exceed.
 - 0.1 mm for surface 3.
 - 0.2 mm for surface X
 - 0.3 mm for remaining surfaces.
- 5. Coating: Chemical oxidizing, oil finish or chemical phosphating oxidizing, oil finish.
- 6. To be marked with type 70-5 GOST 2930-62.
- 7. Remaining requirements as per 520.TY1.

15) FITMENT AND PERFORMANCE TEST:

- 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 required.
 - a. Items of Bulk supplies may be subjected to performance trial in tank in case of repeated failure/defects during exploitation.

16) <u>INTERCHANGEABILITY:</u>

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.
- ii. The supplier/contractor should submit calibration reports/certificates 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. Refer QAP para 18(5).

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

- i. Firm has to maintain all the documents as per QAP with respect to the SI.No.to have traceability.
- ii. 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 documents.
- iii. The testing/inspection responsibility to test all the parameters as per QAP and drawing specifications as mentioned in Annexure -A (enclosed).
- iv. Pre inspection reports (PIR) of firm like, 1. Chemical analysis, 2.Mechanical properties, 3. Pre-forming process, 4. Coating certification (wherever applicable), 5. Calibration reports of instruments and 6. 100% Dimensional inspection reports. 7. Pressure test (leakage test) (wherever applicable) reports, etc..

22) REFERENCE:

- a) Drawing No: 172.40.225-1
- b) Material specification Steel 38XC to GOST 4543-71
- c) GOST 4543-71
- d) Specification 520 TY 1

4	JASE TAING STI		RELEASE RING 3RD FRICTION CLUTCH - 172.40.225-1	RABERAND THE RESPONSE OF MATERIAL PROPERTY FOR THE PROPERTY FOR THE PROPERTY OF THE PROPERTY O	dismony the constituting the electronisms of the section of the se	recombidation of hypotherspanis of	ALE PRESENTATION OF THE BANKS OF THE	ladi, abon dia specia manakan men	Annexure 'A'	
<u> </u>	CATEGORY	ASSEMBLY/SUR ASSEMBLY/SUR	TESTS/INSPECTION	STANDARDS TO BE	ACCEPTANCE	Zw	INSPECTION RESPONSIBILITY	25	KEWARKS	
;		ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב		אכרבואהט	CNIENA	Firm	HVF	DGQA		
,		Pre inspection	Firm has to produced	As per the relevant	Confirm to drawing	Δ.	>	œ	100% by firm/	
		reports (אוא) of firm	all the document as per Para 21 (iv)	drawing and QAP	and QAP as per bill of material				vendor.	
7		Bill of material (BOM)	Firm has to prepare the BOM as per QAP	Refer QAP Para no: 8 or item list.	Confirm to QAP.	۵	>	æ	100% by firm/ vendor	
ť				Refer Specifications &	Conform	a.	d///	۵c	100% by firm/	
		Dimensional	Dimensions as per the	QAP Para no: 12.1	fications a					
		checks	specification		QAP		-		followed by HVF.	
ব্য		Material tests	Chemical composition	Refer GOST 4543-71	All the values to	۵	2///	œ	SP followed by	
	II A A A A		& Mechanical /		confirm with QAP (•		HVF.	
	REG 3X		Physical Properties		Para no:13.1 (a), (b), (c)					
S	CITOTIO	Hardness	BHN 302-363	Refer QAP Para no:	value	<u>a</u>	NW	œ	SP followed by	
	0RG. NO 472.40.225-4	Checks		14(1)	confirm with QAP Para no: 14(1)				HVF.	
G		Coating Checks	Chemical Oxidizing, off	As per Para 14 (5)	All the values to	٦	NIN	Œ	SP followed by	
	,		$\overline{}$						HVF	
			oxidizing Phosphating oil finish.		Para 14 (5)	,				
/		Marking	as	Refer OAP Para no.	Confirm to QAP Para	۵	>	æ	100% by firm/	
		traceability	marking / traceability	18(6).	no:18(6).	*****				
Account to the Company of the Control		i	records.	10 - 000 m 200 m 2						
00		Preservation &	Firm has to make	Refer QAP Para no:	Confirm to QAP Para	<u>с</u>	>	œ	100% by firm/	
		D S S S S S S S S S S S S S S S S S S S	Preservation & packing records	19 & 20	no: 19 & 20				vendor.	
Note		The state of the s	The state of the s		A A A A A A A A A A A A A A A A A A A					

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 for Witnessing (W) at HVF premises. In case of non-compliance to standards entire lot will be rejected.

SP - Sampling Plan

R-Review

V-Verify

W- Witness

P- Perform

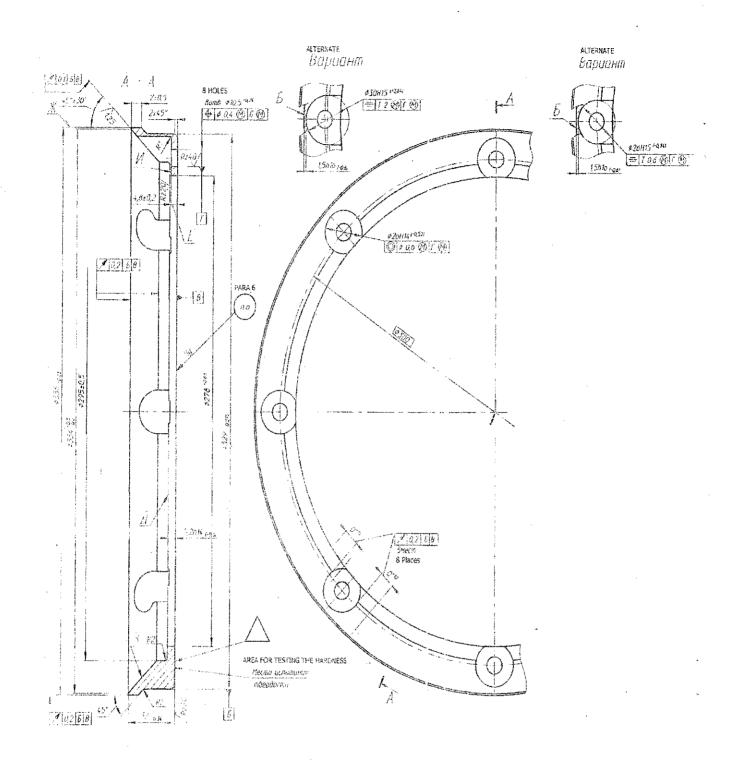


FIG: RELEASE RING 3RD FRICTION CLUTCH TO DRG. NO 172.40.225-1

RECORD OF AMENDMENTS

S. No	Amendment No. & date	Amended by	Date of Insertion	Initial
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				of Controlled Control
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