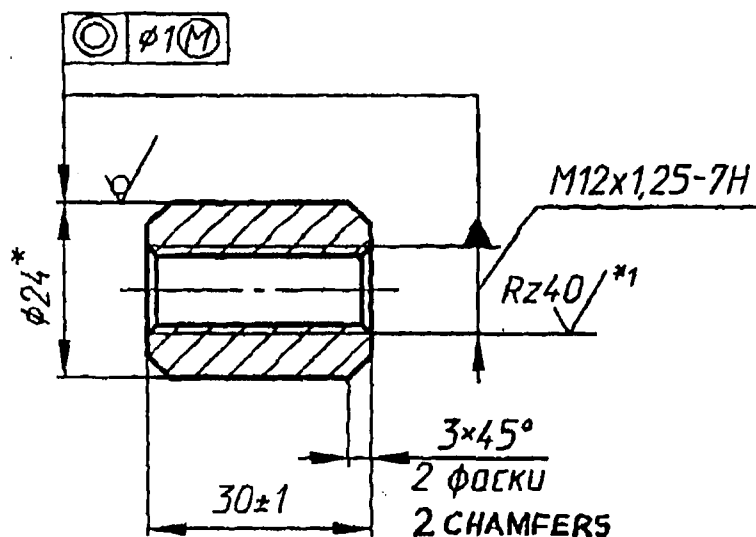


COMMON TO T-72.
DRG. INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - 3

DRAWING NUMBER
165.29.938

SHEET No. 1 OF 1

Rz80/ (✓)



1. *Dimensions for reference.
2. *1Surface finish is to be ensured by tool.
3. Other requirements should be as per specification 520.TY1.

SUPPLY CODE
U-01-1-2

D90053
356

F - 74
62

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

			EST. WT. (Kg) 0.065	TO BE STAMPED OR MARKED WHERE INDICATED THUS # (LETTERS)
			ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT- SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.	
			MATERIAL :- ROUND BAR B-24 GOST 2590-88 15-2ГП-М1-ТВ1-65-Г GOST 1050-88	USED ON :- 172.02.184cbCb 172.02.184cbACb
ISSUE	DATE	NATURE OF AMENDMENTS	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI	
DRN <i>Jdsaut</i>		SCALE :- 1 : 1	TITLE :- BOSS	
CHD <i>Jdsaut</i>		DIMENSIONS IN mm		
APPD <i>Chanchal</i>		TOLERANCE ON DIMENSIONS UNLESS OTHERWISE STATED IS : 2102 - 69	D S CAT NUMBER	
DATE 15-06-04		ALL THREADS TO CONFORM TO		
			DRAWING NUMBER 165.29.938	

SIZE A4

THE UNIVERSITY OF CHICAGO



PHOTOGRAPH BY [illegible]

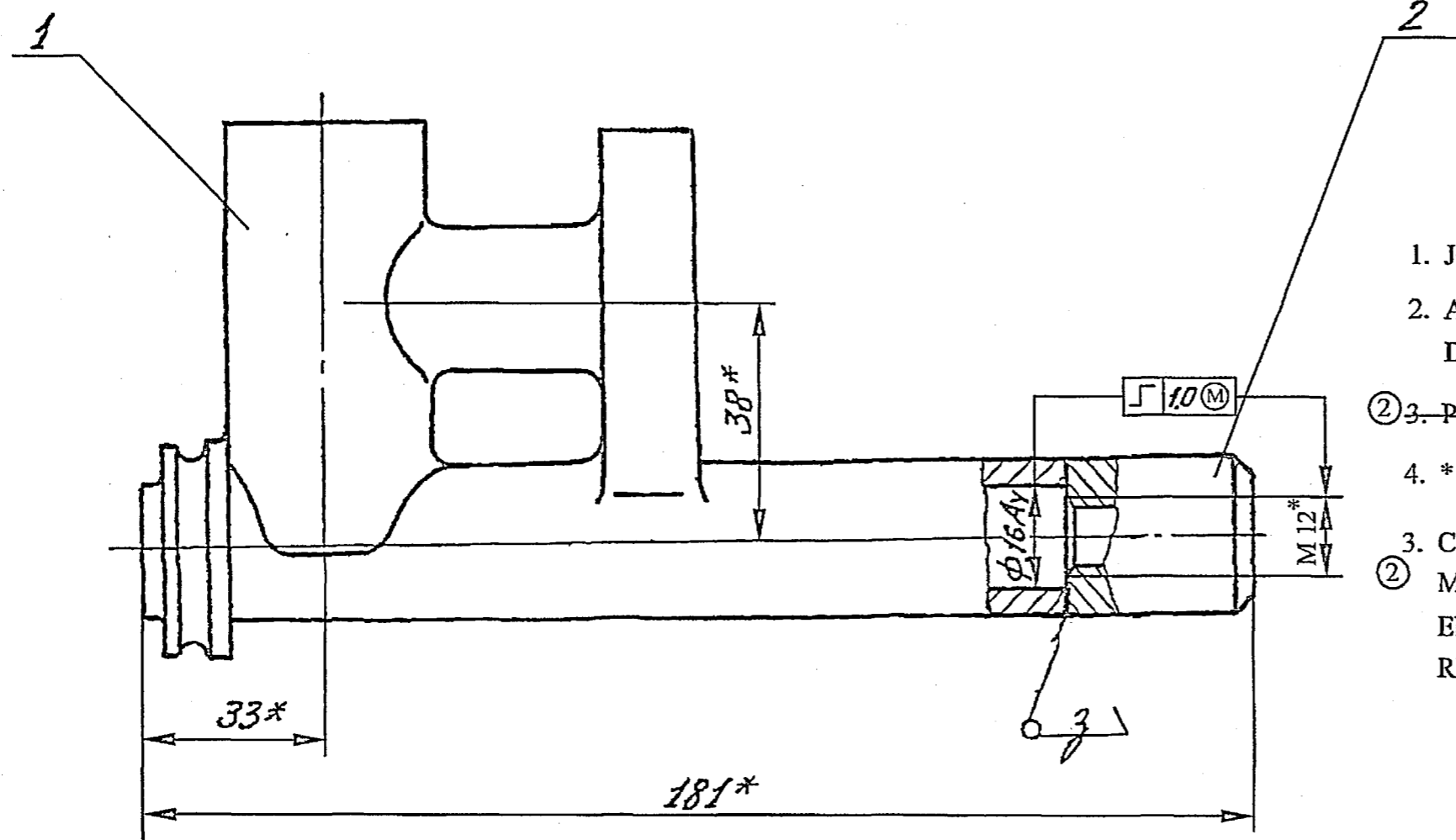
[The following text is heavily obscured by a thick black horizontal bar and is largely illegible. It appears to be a list of names or a table of contents.]

DRAWING NUMBER
172.02.184cbCb

SHEET No. 1 OF 1

B. JAYAVELU, JTO(D)
 04-03-08

COMMON TO T-90 & BLT
 DRG. RE INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - 1



1. JOINT SHOULD BE DRESSED FLUSH.
2. ALONG $\phi 16$ AY AT A LENGTH OF 10 mm IN WELDING AREA. DARKNESS OR ABSENCE OF CHROME IS ALLOWED.
- ② 3. ~~PAINT COATING SHOULD BE AS PER 175 TY 2 2.~~
4. * DIMENSIONS FOR REFERENCE.
- ② 3. COATING OF ALL THE SURFACES EXCLUDING THE MACHINED SURFACE PRIMER 9A-03K, DARK - GREY ENAMEL 79-223 OR DARK - GREY ENAMEL 79-115 894. REQUIREMENTS AS PER 520 TY 5.

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

EST. WT. 0.54 Kg TO BE STAMPED OR MARKED WHERE INDICATED THUS # (LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUT-SIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

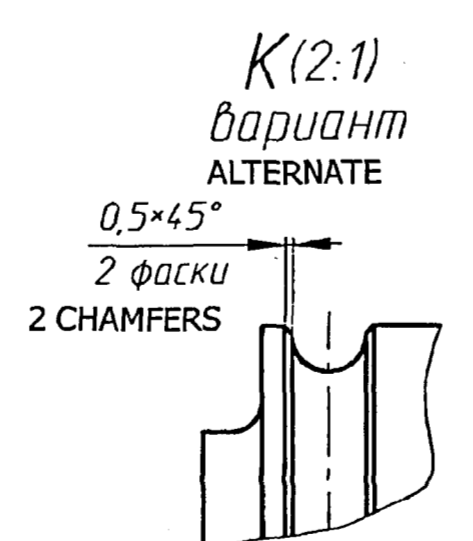
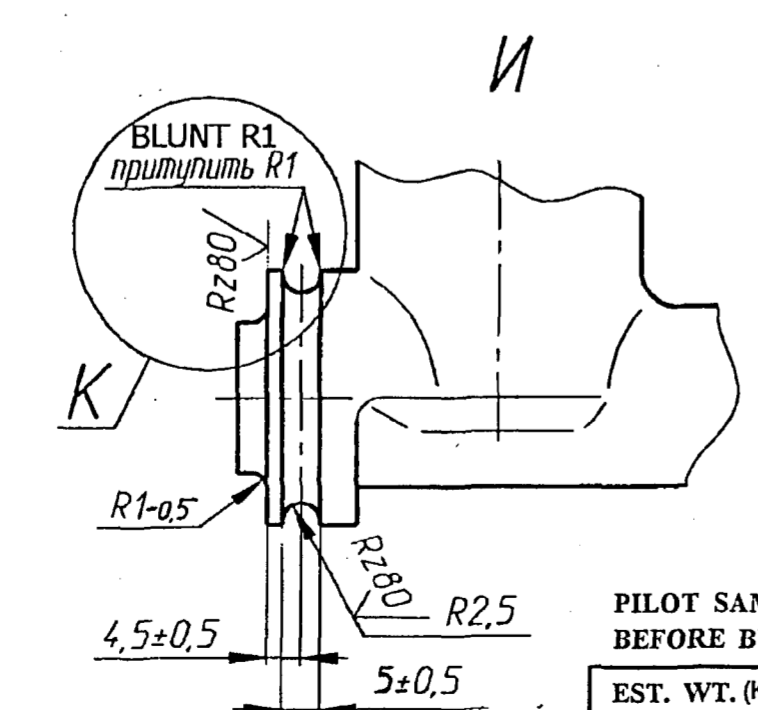
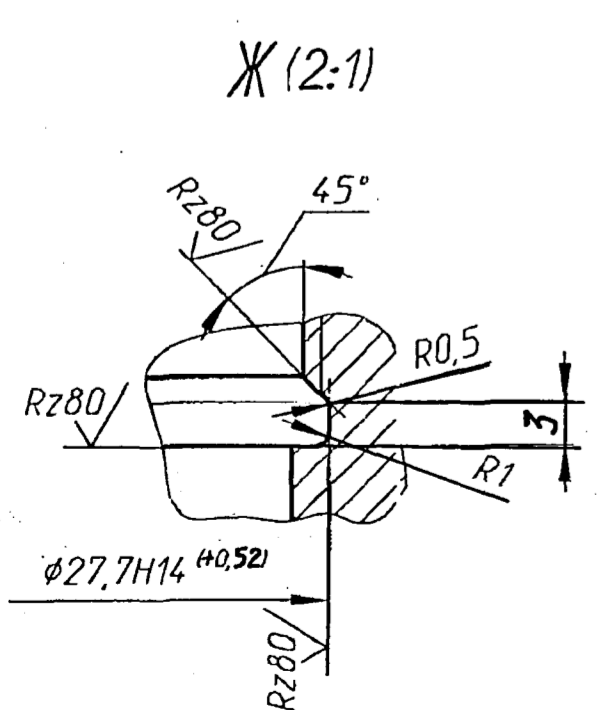
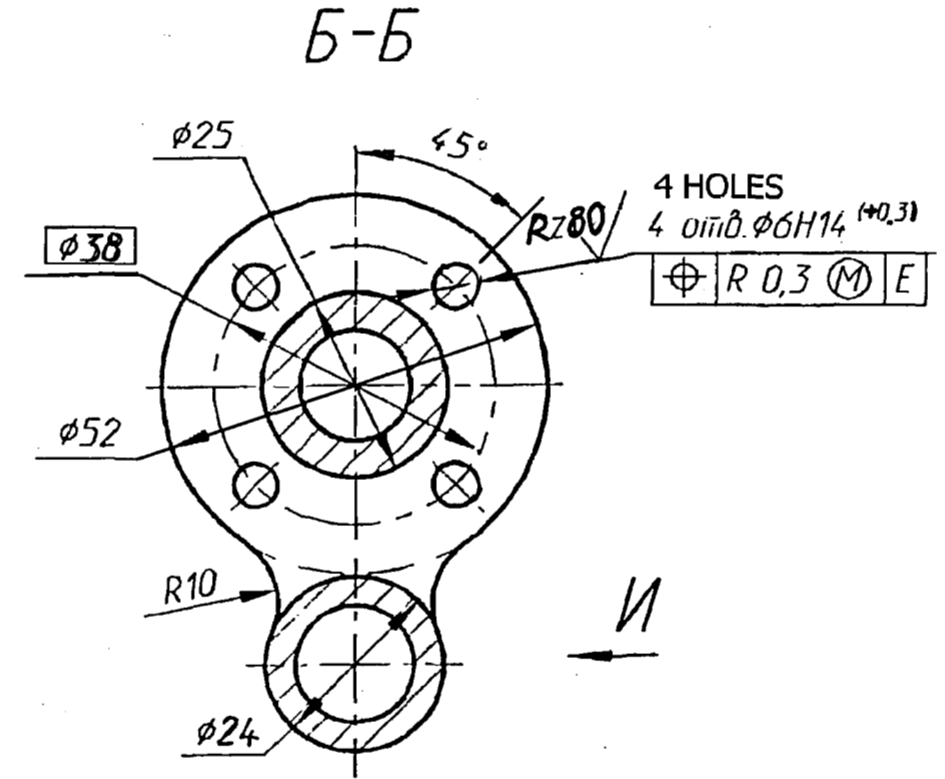
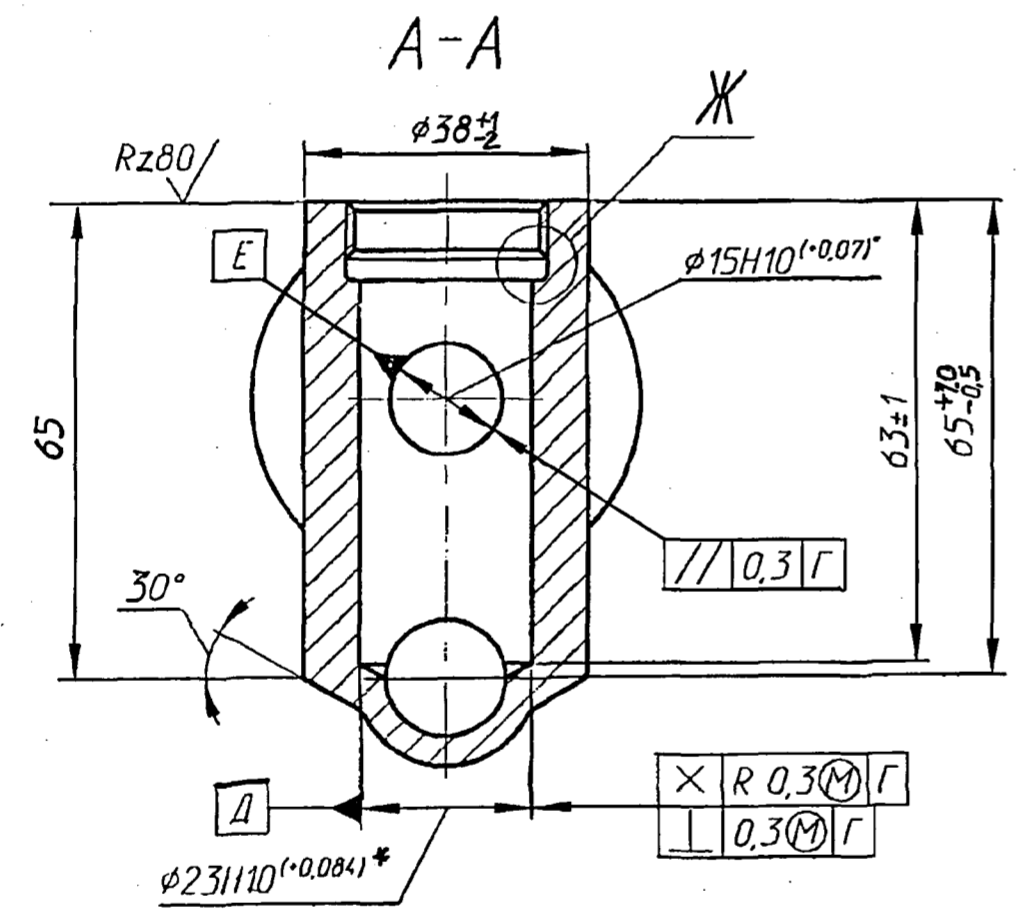
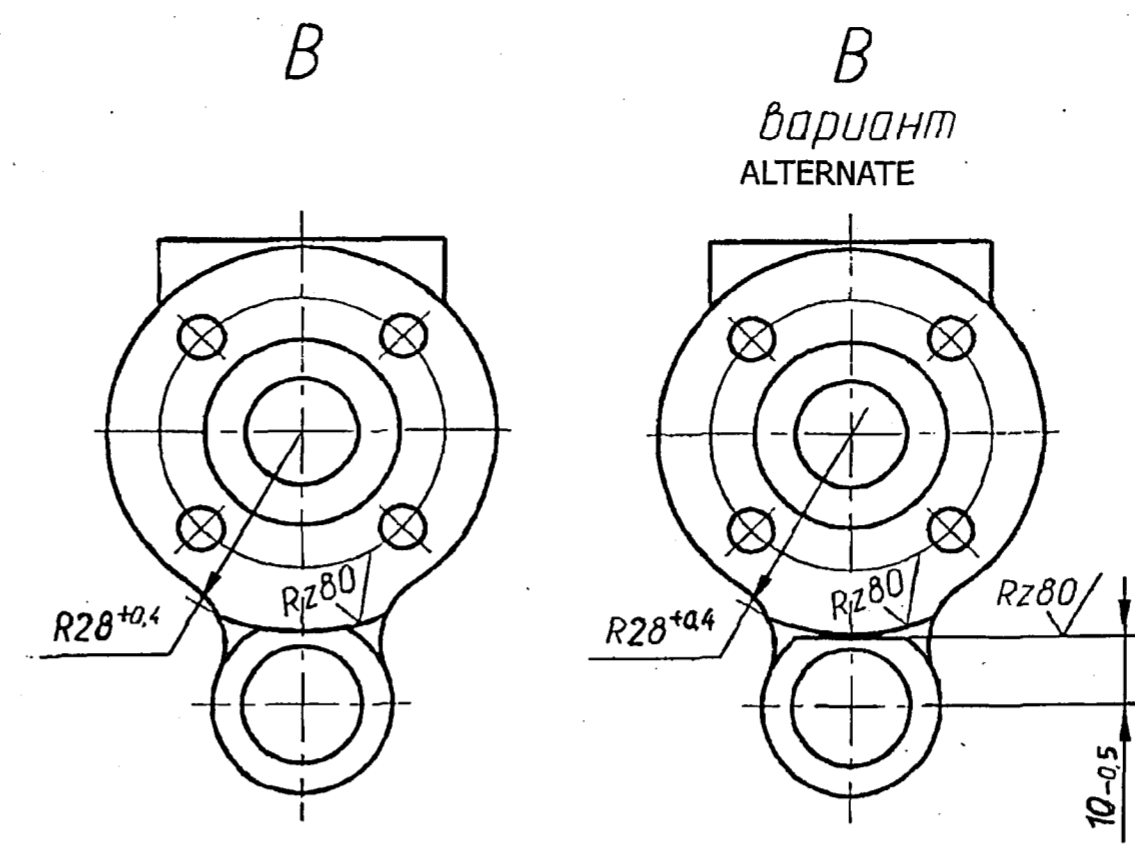
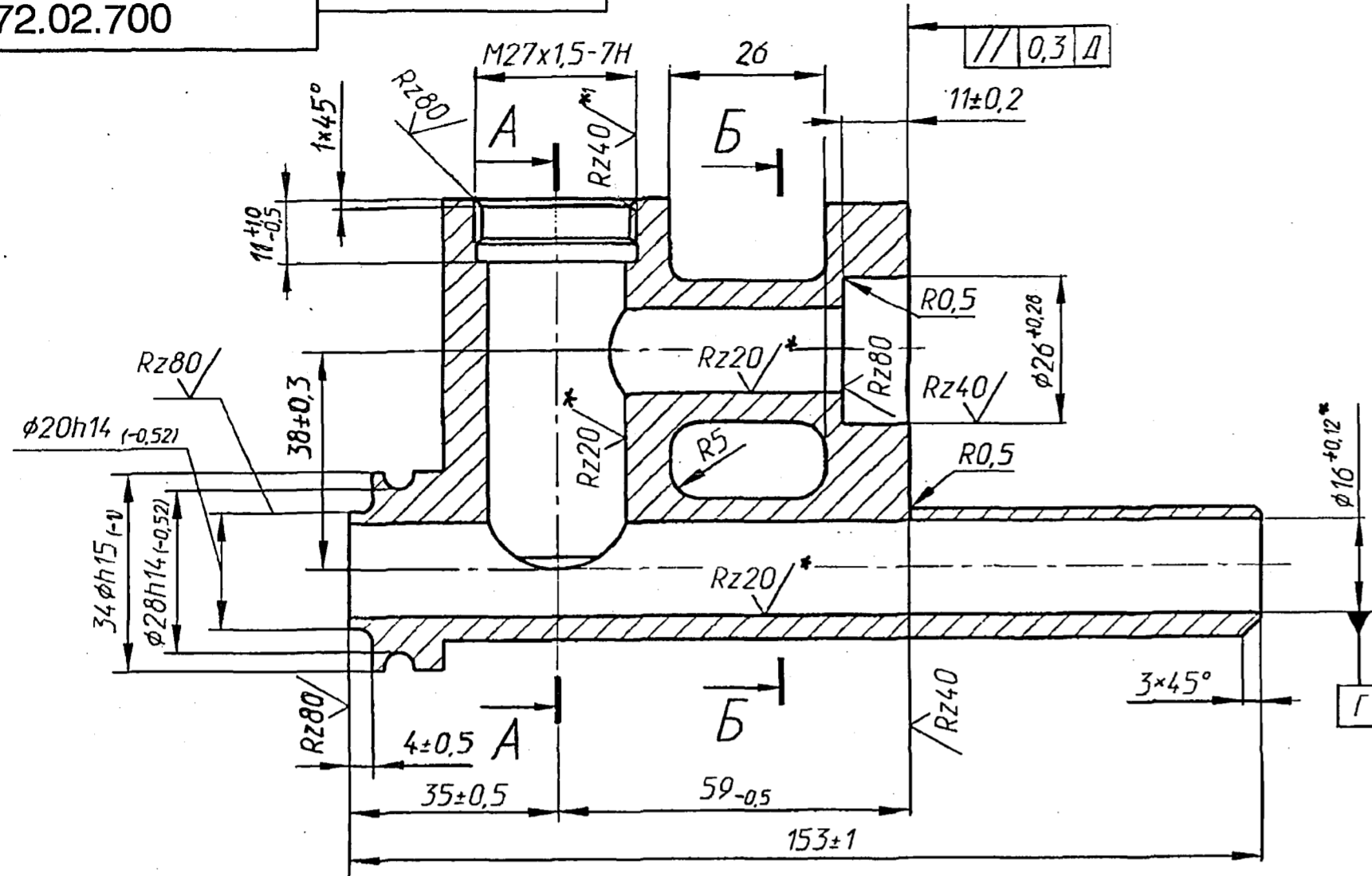
			DRN	Sd/=	MATERIAL:-	USED ON:-
			CHD	Sd/=	—	172 02 171 Cb - BCb
			APPD	Sd/=	CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI	
			DATE	15-12-87		
			SCALE:- 1:1		TITLE:- BODY	
			DIMENSIONS IN mm			
			TOLERANCE ON DIMNS UNLESS OTHERWISE STATED IS: 2102 - 69		D S CAT NUMBER	
			ALL THREADS TO CONFORM TO IS: 4218 Pt IV			
2	14.7.90	172M.748'A.88 . Amdt. 11/3.	ISSUE DATE NATURE OF AMENDMENTS		DRAWING NUMBER 172.02.184cbCb	

F-12
SIZE A3



DRAWING NUMBER
172.02.700

SHEET No. 1 OF 1



1. Материал-заменитель стали марок 30Л, 35Л, 40Л ГОСТ 977-88.
2. Требования к отливке по 172.ТУ10.
3. Литейные уклоны до 1:50 наружу.
4. Точность отливки 9г-0-0-8 ГОСТ 26645-85.
5. Неуказанные литейные радиусы 0⁺³ мм.
6. Покрытие поверхностей Г, Д, Е Х15.тв. Допускается покрытие всех поверхностей.
7. *Размеры и шероховатость после покрытия.
8. Допускается покрытие в сборе.
9. *Шероховатость обеспечить инструментом.
10. При обработке по варианту В допускается наличие уступа в месте сопряжения поверхностей.
11. Отливка 1^й группы ГОСТ 977-88.
12. Остальные требования по 520.ТУ1.

1. Alternate material is steel grades 30Л, 35Л, 40Л GOST 977-88.
2. Requirements for casting are as per 172.TY10.
3. External drafts upto 1:50.
4. Casting accuracy 9г-0-0-8 GOST 26645-85.
5. Unspecified casting radii 0⁺³ mm.
6. Coating for surfaces Г, Д, Е – hard Chromium plating 15 microns thick. Coating can be done for all surfaces.
7. *Dimensions and surface finish given are as per coating.
8. Carry out coating during assembly.
9. *Surface finish is to be ensured by tool.
10. While machining as per alternate B, projection at the place of joints of surfaces is allowed.
11. Casting 1st group GOST 977-88.
12. Other requirements are as per 520 TY1.

COMMON TO T-72
DRG. INDIANISED BASED ON RUSSIAN ORIGINAL ISSUE - 9

356
SUPPLY CODE
U-01-1-2
D90039

F-60
79
SIZE A2

PILOT SAMPLE SHOULD BE APPROVED BY A H S P BEFORE BULK PRODUCTION.

EST. WT. (Kg) 0.46 TO BE STAMPED OR MARKED WHERE INDICATED THUS # (LETTERS)

ALL SHARP EDGES AND CORNERS TO BE REMOVED UNLESS OTHERWISE STATED MACHINED CORNERS TO HAVE R OUTSIDE R INSIDE EQUIVALENT CHAMFERS ARE PERMISSIBLE.

DRN	CHD	APPD	DATE	SCALE	DIMENSIONS	TOLERANCE	ALL THREADS	ISSUE	DATE	NATURE OF AMENDMENTS	
			24-06-04	1:1	IN mm	UNLESS OTHERWISE STATED IS: 2102-69	CONFORM TO				
MATERIAL :- STEEL 25 Л GOST 977-88				USED ON :- 172.02.184 cb Cb				CONTROLLERATE OF QUALITY ASSURANCE (HEAVY VEHICLES) AVADI			
				TITLE :- BODY				D S CAT NUMBER			
				DRAWING NUMBER 172.02.700							



No.	Date	Particulars	Debit	Credit
1	1998	Balance b/d		1000
2	1998
3	1998
4	1998
5	1998
6	1998
7	1998
8	1998
9	1998
10	1998
11	1998
12	1998
13	1998
14	1998
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16	1998
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99	1998
100	1998

**RESTRICTED
(DRAFT/PROVISIONAL)
QUALITY ASSURANCE PLAN**

FOR

(BODY)

DRG.NO.172.02.184cbCb

(LF NO: 6206102028)

No.HVF/T-72C/QAP/02/BODY/242235-00

ISSUE No:00

DATE:SEP-2021

QUALITY ASSURANCE (RIG-SUB ASSEMBLY)

HEAVY VEHICLES FACTORY

AVADI CHENNAI – 600 054

QUALITY ASSURANCE PLAN (QAP)

FOR

BODY

DRG. NO. 172.02.184cbCb


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

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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 **BODY-172.02.184cbCb** 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 pthe 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 **BODY – DRG No.172.02.184cbCb**

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 **BODY – DRG No.172.02.184cbCb** 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. Equivalent 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. 172.02.171 Cb-BCb

7. LIST OF DRAWINGS:

SI. NO.	DRG. NO	NOMENCLATURE	REMARKS
1.	172.02.184cbCb	BODY	-
2.	172.02.700	BODY	-
3.	165.29.938	BOSS	-

8. BILL OF MATERIALS:

Details as below,

SI. NO	DRG. NO	NOMENCLATURE	MATERIAL SPECIFICATIONS	Qty
1.	172.02.700	BODY	STEEL 25 П GOST 977-88	1
2.	165.29.938	BOSS	<u>B-24 GOST 2590-88</u> 15-2ГП-М1-ТВ-65-ГС GOST 1050-88	1

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:

Sl. 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	1 No. for each batch of raw material or heat treatment lot as required by specifications.
(iv)	Acceptance test	---	-----
(v)	Pressure testing	---	-----
(vi)	Machining/Fitment/ Performance trial on higher assembly / Tank	1 Nos	1 Nos
(vii)	Interchangeability Test	02 Nos.	02 Nos.per batch on randomly basis, except selective assembly.
(viii)	Test stand/Jigs/ Fixtures/Gauges/Mandr els/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.

12.1 BODY(172.02.700)

All dimensions shall be confirmed as per drawing/Specification. Surface finish and roughness should be confirmed as per drawing and specification
For admissible alternate manufacture if any in dimensions/material, refer drawing/specification.


12.2 BOSS(165.29.938)

All dimensions shall be confirmed as per drawing/Specification
Technical requirements shall be confirmed as per drawing.
For admissible alternate method for manufactured in dimension/material if any refer drawing/specifications

12.3 BODY(172.02.184cbCb)

All dimensions shall be confirmed as per drawing/Specification
Technical requirements shall be confirmed as per drawing.
For admissible alternate method for manufactured in dimension/material if any refer drawing/specifications

Sl. No.	Drawing Dimensions
(i)	1 mm

(ii)	2 mm
(iii)	38* mm
(iv)	
(v)	M12 * mm
(vi)	Ø16 Ay
(vii)	181* mm
(viii)	33* mm

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 BODY(172.02.700)

a) The component should be manufactured from STEEL 25 Л GOST 977-88.

b) **Chemical properties:** As per STEEL 25 Л GOST 977-88.

CONTENT OF ELEMENTS %							
C	Si	Mn	Cr	Ni	S	P	Cu
MAX							
0.22 to 0.30	0.20 to 0.52	0.45 To 0.90	0.30	0.30	0.04 0	0.040	0.30

For mass fraction of other elements refer GOST 977-88.

c) **Mechanical properties:** As per STEEL 25Л GOST 977-88

13.2 BOSS (165.29.938)

a) The component should be manufactured from STEEL 15 GOST 1050-88

b) **Chemical properties:** As per STEEL 15 GOST 1050-88

CONTENT OF ELEMENTS %							
C	Si	Mn	Cr	Ni	S	P	Cu
MAX							
0.12to 0.19	0.17 to 0.37	0.35 to 0.65	0.25	0.25	0.040	0.035	0.25

For mass fraction of other elements refer: STEEL 15 GOST 1050-88

c) **Mechanical properties:** For details refer from B-24 GOST 2590-88
15-2ГП-М1-ТВ-65-ГС
GOST 1050-88

14) PERFORMANCES/ACCEPTANCE TEST: BODY 172.02.184cbCb

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

1. Joint should be dressed flush.
2. Along Ø16 AY AT A length of 10mm. In welding area. Darkness or absence of chrome is allowed.
3. Coating of all the surfaces excluding the machined surface primer **ЭЛ - 03К**, Dark- Grey Enamel **ЭФ-223** or Dark-Grey Enamel **ЭФ-115** 894.

Requirements as per 520 Ty 5

4. * Dimensions for reference.

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 required.

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

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/FIXTURES/GAUGES/INSTRUMENTS):

- i. 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.

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 Sl.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: **172.02.184cbCb**
- b) Material specification for BODY STEEL 25 Л GOST 977-88.
Altr Material Steel grades 30Л, 35Л and 40Л GOST 977-88
- c) Material specification for BOSS B-24 GOST 2590-88
15-2ГП-М1-ТВ-65-ГС
GOST 1050-88.
- d) GOST 977-88.
- e) GOST 1050-88
- f) GOST 26645-85
- g) Specifications 520 TY1& 172 Ty 10 & 520 Ty 5

SL. NO.	CATEGORY	ASSEMBLY/SUB ASSEMBLY	TESTS/INSPECTION PARAMETERS	STANDARDS TO BE REFERRED	ACCEPTANCE CRITERIA	INSPECTION RESPONSIBILITY			REMARKS
						Firm	HVF	DGQA	
1		Pre inspection reports (PIR) of firm	Firm has to produce all the document as per Para 21 (iv)	As per the relevant drawing and QAP.	Confirm to drawing and QAP as per bill of material	P	V	R	100% by firm/vendor.
2		Bill of material (BOM)	Firm has to prepare the BOM as per QAP	Refer QAP Para no: 8 or item list.	Confirm to QAP.	P	V	R	100% by firm/vendor.
3		Dimensional checks	Dimensions as per the specification	Refer Specifications & QAP Para no: (12.1, 12.2, 12.3)	Conform to Specifications and QAP(12.1, 12.2, 12.3)	P	W/P	R	100% by firm/vendor SP followed by HVF.
4	BODY-172.02.184cb Cb	Material tests	Chemical composition & Mechanical / Physical Properties	Refer GOST1050-88& GOST 977-88	All the values to confirm with QAP (Para no:13.1&13.2)	P	W/V	R	SP followed by HVF.
5		Coating	Dark - Grey Enamel & Chromium plating microns	Refer Specifications & QAP Para no: 14(3)& 13:13.1(e):6	Conform to Specifications and QAP Para no.14(3)& 13:13.1(e):6	P	W/P	R	100% by firm/vendor SP followed by HVF.
6		Marking / traceability	Firm has to make marking / traceability records.	Refer QAP Para no: 18.	Conform to QAP Para no.:18.	P	V	R	100% by firm/vendor.
7		Preservation & packing	Firm has to make Preservation & packing records	Refer QAP Para no: 19 & 20	Conform to QAP Para no: 19 & 20	P	V	R	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.

P - Perform

W - Witness

V - Verify

R - Review

SP - Sampling Plan

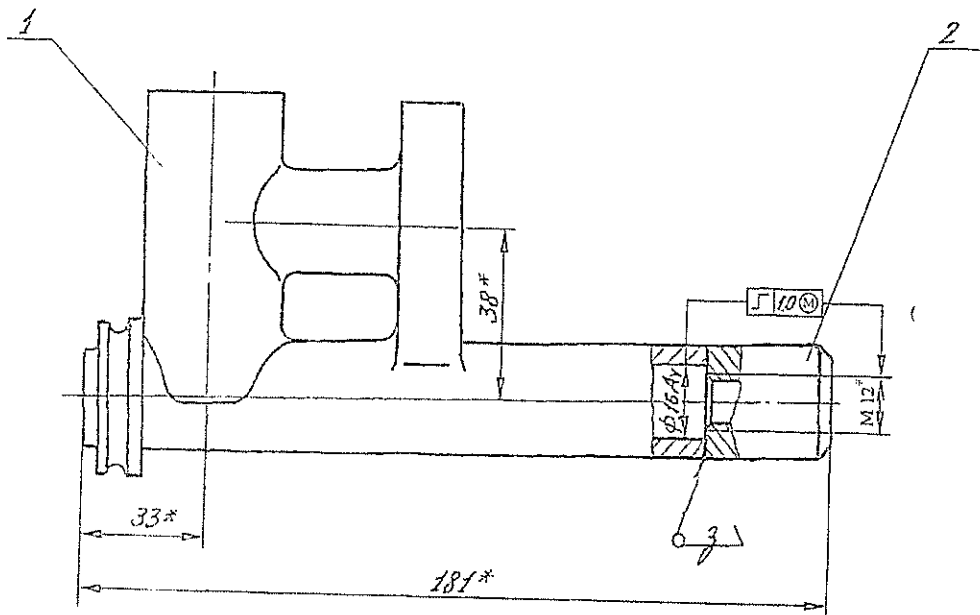


FIG: BODYTO DRG. NO 172.02.184cbCb

RECORD OF AMENDMENTS

Sl. No	Amendment No. & date	Amended by	Date of Insertion	Initial

FORMAT FOR THE METHOD OF MANUFACTURE/ INFRASTRUCTURE AVAILABLE

Nomenclature & Drawing No: _____

1	2	3	4	5	6	Remarks
<p>MANUFACTURING TECHNOLOGY&TESTING/ INSPECTION FACILITIES REQUIRED TO PRODUCE THE ITEM</p>	<p>POSSESSED BY THE VENDOR IN HIS OWN PREMISES –(P&M LIST &TESTING/INSPECTION EQUIPMENT LIST TO BE SUBMITTED)</p>	<p>PROVIDE DETAILS OF THE FACILITIES ASKED IN COLUMN (3)THAT ARE AVAILABLE IN-HOUSE (SELE-DECLARED P&M LIST (Nomenclature of machine, make/model, capacity/size & accuracy, date of installation, vintage of machine /year of manufacturing of machine)AND TESTING/INSPECTION EQUIPMENT,LIST (Nomenclature of the testing/inspection equipment make/model, size & range, Date of calibration)also to be submitted)</p>	<p>IF NOT POSSESSED BY THE VENDOR IN HIS OWN PREMISES IT MAY BE OUT SOURCED.(MOU/TIE-UP WITH THE OUTSOURCING VENDOR/SUB-VENDOR AND THEIR P&M LIST &TESTING/INSPECTIN EQUIPMENT LIST TO BE SUBMITTED)</p>	<p>PROVIDE DETAILS OF THE FACILITIES ASKED IN COLUMN (5)OUT-SOURCED FIRMS(NAME &ADDRESS OF THE OUTSOURCING VENDOR TO BE DECLARED BY THE FIRM IN FIRM'S LETTERHEAD, SELF-DECLARED P&M LIST (Nomenclature of machine, make/model, capacity/size& accuracy, date of installation, vintage of machine /year of manufacturing of machine)AND TESTING/INSPECTION EQUIPMENT,LIST (Nomenclature of the testing/inspection equipment make/model, size& range, date of calibration)AND MOU/TIE-UP ALSO TO BE SUBMITTED)</p>		
Technology 1						
Technology 2						
Technology 3						

Test/ inspection1						
Test/ Inspection2						
Test/ Inspection3						

*The above details furnished by the vendor is to be self-certified for technical evaluation

*Inspection of item will be carried out at par with QAP, which is attached along with TE

SIGNATURE OF AUTHORIZED PERSON WITH SEAL