



PAKISTAN AERONAUTICAL COMPLEX, KAMRA AIRCRAFT MANUFACTURING FACTORY

TENDER NOTICE : OPEN TENDER
AMF/751-A/4607/LOG DATED 04 April, 2024

TO BE OPENED ON : 18 April, 2024

TENDER INQUIRY : 13

1. Sealed tenders for purchase / repair of items as per enclosed list are invited from sales tax registered Suppliers who are on Active Taxpayers List (ATL) of FBR.

Pattern of Quotations

2. The quotation shall comprise a single package containing 02 separate envelopes. Tender reference along with due date of opening and Category Number must be clearly marked. Each envelope shall contain separately, the financial proposal and the Technical proposal respectively. Each bid (financial / technical) will be on separate leaf against single line item, envelope cover must be marked with "Item name". **Quotations with multiple line items on single page will be dropped. Quotations should be on original letter head (colour printed).** The quotations shall addressed to Managing Director AMF, PAC Kamra as per terms given below:-

(a) **Technical Offer:** It should be without prices and contain all relevant essential specifications along with literature / brochures. Tender number, date of opening and word (**Technical offer**) should be clearly marked. The tendered Part No should be mentioned against quoted item / offer. Any details of equivalent / variables being quoted should be clearly mentioned against Part No being tendered. **NSN / OEM Part No** should be mentioned on both technical and commercial quotations. All quoted products must have traceable local / foreign OEM. **Country / Place of Manufacture / OEM** of stores is to be provided along with Technical / Commercial offer. **Certificate of Conformance (CoC), Technical Data Sheet (TDS) and Material Safety Data Sheet (MSDS)** along with any other relevant literature by OEM are must for all Aviation Items, Chemicals, Material and Equipment. All precision measuring equipment must be quoted with provisioning of fresh **Calibration Certificate**. Spectrometric analysis report against raw material / hardware items may be required to establish conformity of delivered product. All Chemicals, lubricants and any item of shelf life range must be quoted with provisioning of **MSDS** along with fresh **Laboratory Test Reports** against corresponding LOT No, Batch No, Date of Production, Date of Expiry of delivered stores. **Part Catalogues, IPBs (Illustrated Part Breakdown), User Guides, Operating / Maintenance Manuals, Brochures, Prices** which ever available / applicable would be provided free of cost along with delivered stores. In case of **Unit of issue** being Quoted other than which has been tendered, conversion formula is to be mentioned, AMF will conclude all transaction formalities (vetting, approval, placement of order, receipt of stores and subsequent payment) as per tendered / published Unit of Issue. All cyber range products must be of **branded origin and without Pro technology, ivy / sandy bridge processors**. Confirmation to this effect is to be furnished by written certificate along with quotation. License keys, activation / access passwords and source codes are to be provided along with all software whether purchased individually or as a part of any system/equipment or machinery.

(b) **Financial Offer:** It should indicate price of quoted item (**to be delivered at AMF, Kamra premises with all liabilities on Suppliers**) and confirmation to the terms and condition of AMF tender inquiry. The words "**Financial offer**" should be clearly marked. The Quoted prices are to be exclusive of GST levied by the Government and these should be in accordance with the current Local market prices. GST must be mentioned separately. All other charges must be incorporated in offered price. Rates must be mentioned in both "words" and "figures". Following documents must accompany financial offer:-

- (i) Proof of being on **active taxpayers list**
- (ii) Sales tax registration certificate

- (iii) NTN certificate
- (iv) Professional Tax certificate of the province where the contract is being concluded as per MAG letter No 54/AT/S/1687-Vol-XXVII/P-29 dated 22 April, 2013 and Taxation department Punjab letter No SO (TAX) 1-33/77 (P-IV) date 28 August, 2003.
- (v) Any specific SRO / Tax exemptions if applicable must be notified along with commercial offer.

(c) **Bid Money / Earnest Money:** The **unregistered firms with PACB** (Pakistan Aeronautical Complex Board, Kamra) will have to furnish **earnest money @ 5%** of the quoted value through **Bank Draft / CDR** in favour of **Public Fund Account AMF PAC, Kamra**. The earnest money instrument should indicate Tender reference and firm/company name. In case where the exact Quantity has not been mentioned the earnest money should be calculated against MOQ / market available standard OEM packaging. The exact bid money in this scenario will have to be furnished within 01 week of intimation of being technically accepted, lowest financial bidder. The confirm purchase order will be furnished upon receipt of earnest money. Earnest money of bidders backing out of submitted quote or failing to provide in time delivery will be forfeited along with initiation of disciplinary actions.

Quantity

3. Quantity can be increased / decreased at the time of order as per AMF requirement without change of financial quotations. Bids once submitted will not be allowed to be changed and will be binding on suppliers for delivery of stores if purchase order is furnished, however, clarifications may be sought.

Offer requirement / validity

- 4. The quotation should be valid if it contain under mentioned information.
 - (a) Quote Validity should be minimum **90 days** and extendable on request.
 - (b) **EDD must be available on Commercial Quote. Quotation will not be accepted without delivery period.**
 - (c) Picture and TDS must be available with technical quote.
 - (d) Separate quote for every single line item.
 - (e) Mentioning of date on commercial / technical quotes is mandatory.
 - (f) Terms & Conditions should be mentioned on commercial / technical quotes.

Delivery Period

5. **Items are to be delivered at AMF, PAC KAMRA premises with all liabilities on Suppliers.** Stores are required within minimum possible delivery period. Offer with minimum delivery period are likely to be preferred. However, the delivery period should be factual as no subsequent extension will be granted except under extreme / un-avoidable circumstances. **Delivery period will invariably start from furnishing of written (provisional / firm) purchase order whichever is earlier.** Delivered stores must be in **standard packing** (free of any separate cost). Delivery of items shall be strictly made as per timeline mentioned in purchase order. In case of failure, AMF reserves the right to cancel any PO.

6. Acceptance of Stores / General Terms & Conditions

- (a) **Certificate of Conformance, TDS and MSDS** by OEM is must for all aviation items, Materials and Equipment.
- (b) All precision measuring equipment must accompany fresh **Calibration Certificate either from OEM or any certified credible facility.**

- (c) All Chemicals, lubricants and any item of shelf life range must accompany **MSDS** along with fresh **laboratory test reports against corresponding LOT number, Batch number, date of production, date of expiry of delivered stores.**
- (d) In case of life items, the remaining shelf life must be at least 75 % at the time of delivery.
- (e) Stores will be accepted after inspection by concerned user / Quality Control Directorate as per QMS of AMF.
- (f) Supplier will be made responsible for **warranty / guarantee** of newly purchased items **at least one year or maximum possible.** In case of rejection of item on receipt or any defect / anomaly found within warranty period whether before use or while in use, the supplier will provide free of cost repair / replacement (which applicable) at AMF Kamra premises bearing all liabilities.
- (g) All repair works / services will **INVARIABLELY** be under at least **06 months warranty**, unless contracted otherwise and depends upon case to case basis.
- (h) **Part Catalogues, IPBs (Illustrated Part Breakdown), User Guides, Operating / Maintenance Manuals, Brochures, Prices** which ever available / applicable would invariably be provided **free of cost** along with delivered stores.
- (j) Items should be current year's production.
- (k) Supplier will retain record of all products delivered to AMF karma, for at least 03 years.
- (l) AMF reserves the right to visit / inspect any premises of supply chain against required / offered products.
- (m) The supplier will be responsible for in time payment of all applicable taxes and duties to relevant agencies as per in vogue GOP regulations. The supplier must be able to furnish / produce such record as and when demanded by AMF.
- (n) Any item being tendered if obsolete / discontinued by OEM may please be communicated along with said certification by OEM. Suitable replacements / substitutes / interchangeable may also be communicated along with complete technical / operational details.
- (p) All quotations/ bids, correspondence and clarifications / queries must be on company letter head duly signed by authorized signatory authority. Active contact / correspondence details (phone no. mobile no. email & postal address must be mentioned).
- (q) All quotations, bids, clarifications, queries, correspondence and product will be kept strictly confidential.

Release of Payment

7. Payment will be released by Dte of Budget and Accounts, AMF PAC, Kamra on submission of Sales Tax invoice along with copies of GST registration, NTN certificate and Professional Tax certificate. Sales Tax Return against previous transactions (if any) during current financial year and copy of relevant SRO (if applicable) will also be required. All payments are to be received after successful acceptance of delivered stores by user and upon furnishing of requisite documentation. After receipt of payment, supplier is to furnish monthly sales tax return declaration along with Annexure "C" (DOMESTIC SALES INVOICE DETAIL) duly depicting invoice number against which payment has been received from AMF, Kamra. Specified amount of GST and Income tax will be withheld/ deducted at source as per GOP instructions in vogue. Any exemption in this regard will only be entertained upon furnishing of FBR issued EXEMPTION certificate in name of Firm / Company against specified item.

Terms and Conditions

8. The terms and conditions mentioned in this document will be integral part of any purchase order furnished against this tender, whether or not mentioned again.

Clarifications of Queries

9. Queries if any may be cleared by contacting **051-90995372**.

Rejection

10. Offers are liable to be rejected if:

- (a) There is a deviation from any instruction.
- (b) Offers are found conditional or incomplete in any respect.
- (c) Overwriting / erasing in prices.
- (d) Firm being **BLACKLISTED / UNDER EMBARGO / DE LISTED** by any **Government Organization**.
- (e) Any terms and conditions not in conformity with tendered terms and conditions.

Delivery of Tender

11. **Each quotation (financial / technical) shall be on separate leaf against single line item.** Both the envelopes of **Technical and Commercial** offers should be enclosed in one cover properly sealed, **envelope cover must be marked with "Item name"** and bear the following address of Local Purchase office, AMF with **tender Inquiry number and opening date**.

Deputy Director Local Purchase (JF-17)
Aircraft Manufacturing Factory,
Pakistan Aeronautical Complex, Kamra
District Attock

Opening of Tender

12. The quotations must be in original and are to reach at this factory by **1100 Hrs** on **18 April, 2024**. All quotations are to be dropped in the tender box placed at the Local Purchase Section, AMF. No quotation will be accepted in photocopy, through Fax and after due date and time. Tender will be opened on **same day at 1130 Hrs** in the presence of witnessing officers and available representatives of the firms in vendor's conference room. AMF reserve the right to cancel or reject any or all bids / proposals against complete tender or any part thereof, at any time without any liability. In case of official holiday the Tender will be opened on next working day.

Yours Faithfully,



(AMJAD FAROOQ)
Squadron Leader
for Managing Director
AMF, PAC Kamra

AMF QUALITY SYSTEM REQUIREMENTS

Following are the requirements to be satisfied by the Supplier (External Provider) / Sub-Contractor (Local Vendor) of AMF:-

1. The processes, products, and services to be provided including the identification of relevant technical data (e.g., specifications, drawings, process requirements, work instructions).
2. The approval of products and services, methods, processes, equipment, and the release of products and services.
3. Provide inspection and testing criteria for acceptance by AMF.
4. Notify AMF about non-conformance product or material supplied.
5. Obtain approval from AMF of changes in product / process.
6. Access by AMF, its customers and regulatory authorities be ensured to applicable areas of all facilities involved in the order and to all applicable records at any level of the supply chain.
7. Provide Objective evidence of the quality of product.
8. To ensure product conformance to specified requirements.
9. To provide manufacturing date and Lot number.
10. To provide shelf life and expiry date as applicable
11. Competence, including any required qualification of persons.
12. The external providers' interactions with the organization.
13. Control and monitoring of the external providers' performance to be applied by the organization.
14. Verification or validation activities that the organization, or its customer, intends to perform at the external providers' premises.
15. Supplier (External providers) apply appropriate controls to their direct and sub-tier Suppliers (external providers), to ensure that requirements are met.
16. Design and development control.
17. Special requirements, critical items, or key characteristics.
18. Test, inspection, and verification (including production process verification).
19. The use of statistical techniques for product acceptance and related instructions for acceptance by the organization.
20. To provide Material / Metallurgical test reports along with raw material for traceability through Lot / Batch No. External Provider will also provide date of manufacture of provided Lot / Batch No of raw material.
21. The need to:
 - (a) Implement a Quality Management System.
 - (b) Use customer-designated or approved external providers, including process sources (e.g., special processes).
 - (c) Notify the organization of nonconforming processes, products, or services and obtain approval for their disposition.
 - (d) Prevent the use of counterfeit parts.
 - (e) Notify the organization of changes to processes, products, or services, including changes of their external providers or location of manufacture, and obtain the organization's approval.
 - (f) Flow down to external providers applicable requirements including customer requirements.
 - (g) Provide test specimens for design approval, inspection/verification, investigation, or auditing.
 - (h) Retain records (documented information), including retention periods and disposition requirements.
22. Ensuring that persons are aware of:
 - (a) Their contribution to product or service conformity.
 - (b) Their contribution to product safety.
 - (c) The importance of ethical behavior.

AMF/751-A/4607/LOG (PC-13) DATED 04 April, 2024

S No	Part No	Noun	Qty	UI	Section	Remarks
1	DO111	DRY OVEN GRAPH PAPER	5	RL	Building 111 (ST Shop)	
2	SR253-11-N-10600100	DIGITAL TEMPERATURE CONTROLER	6	EA	Building 111 (ST Shop)	
3	15303825-12-041-2	TEMPERATURE RECORDER	2	EA	Building 111 (ST Shop)	
4	2024-T3	ALUMINIUM SHEET FOR TEST COUPENS (1MM THICK)	2	M2	Building 111 (ST Shop)	
5	7075-T6(CLAD)	ALUMINIUM SHEET FOR TEST COUPENS (1MM THICK)	2	M2	Building 111 (ST Shop)	
6	2024-T0-1MM	SHEET ALUMINIUM 2024 1MM THICK	2	SHT	Building 111 (ST Shop)	
7	34B/PAF-75	MOBIL OIL	40	LTR	Building 111 (ST Shop)	
8	14A/AMF-96	FAX MACHINE HEAVY DUTY	1	EA	DY CM SECTT (PACB)	
9	INTELCOREI5-7500QUADCORE	BRANDED DELL/HP CORE I5 (ALL IN ONE)	3	EA	DY CM SECTT (PACB)	
10	I3-2100	PC CORE I3 2100 4GB DDR3 500GB SATA	5	EA	DY CM SECTT (PACB)	
11	61A/FT/001	RUBB MAT FOR STEEL RACKS	50	MTR	FTS (112)	
12	16A/AMF-66	HINO SHANGRALA BUS MODEL NO AK1 JRKA	1	EA	MT R&I (JF-17)	Scope of work attached
13	16A/AMF-66	HINO SHANGRALA BUS MODEL NO AK1 JRKA	1	EA	MT R&I (JF-17)	
14	61M/SWEEPER/1069981	SUCTION HOSE	1	EA	MT R&I (JF-17)	
15	BOISB-0605-OO	PRINTER HP LASER JET(HP-1005)	1	EA	PAC Comm Centre	
16	ERN480-2048	ROTARY ENCODER	1	EA	PMI (JF-17)	
17	88290008-914	WATER SEPARATOR	1	EA	PMI (JF-17)	
18	PLU320RCY.NPN	PUMP WITH NPN CONTROL	1	EA	PMI (JF-17)	
19	YRTM325	AXIAL/RADIAL BEARING (WITH MEASUREMENT SYSTEM)	2	EA	PMI (JF-17)	
20	PGL-G	CENTRIFUGAL PUMP (SUMP TANK)	1	EA	PMI (JF-17)	
21	ZLX0EDI10	EDI MODULE	1	EA	PMI (JF-17)	
22	ERN1387.0202048	HEIDENHIN PULSES ENCODER	1	EA	PMI (JF-17)	
23	JXD-4QX-15	ULTRASONIC GAS IMAGE CLEANING MACHINE(105-181)	1	EA	PMI (JF-17)	
24	250038-672	SOLENOID VALVE PLUG	6	EA	PMI (JF-17)	
25	88290008-914	WATER SEPARATOR	1	EA	PMI (JF-17)	
26	02250139-996	FLUID FILTER	4	EA	PMI (JF-17)	
27	02250135-149	AIR FILTER	2	EA	PMI (JF-17)	
28	619-1005L-BSP	API HEAT TRASFER AIR TECH PCR ALUMINIUM 3 INCH HEAT EXCHANGER	3	EA	PMI (JF-17)	
29	ESSICO0000	CAREL PCB CARD	1	EA	PMI (JF-17)	
30	ESSICO0000	CAREL PCB CARD	1	EA	PMI (JF-17)	
31	NFC-VEGF	FIBER GLASS FABRIC	100	MTR	PMI (JF-17)	
32	02250139-996	FLUID FILTER	1	EA	PMI (JF-17)	
33	250024-437	OIL CONTENT REMOVAL LINE FILTER ELEMENT	6	EA	PMI (JF-17)	
34	250038-672	SOLENOID VALVE PLUG	1	EA	PMI (JF-17)	

S No	Part No	Noun	Qty	UI	Section	Remarks
35	88290007-789	DELUX MICRO PROCESSOR CONTROL UJINT (SULLAIR)	3	EA	PMI (JF-17)	
36	02250135-149	AIR FILTER	3	EA	PMI (JF-17)	
37	682604773537	PLASTIC HEXAGON GRILL MESH SHEET	100	FT2	PMI (JF-17)	
38	ERN1387.0202048	HEIDENHIN PULSES ENCODER	1	EA	PMI (JF-17)	
39	DA6VP2A5X/200FSM	PRESSURE REGULATING VALVE (HYD VALVE)	1	EA	PMI (JF-17)	
40	309A-209A	SEAL	4	EA	PMI (JF-17)	
41	V-55A	V RING	4	EA	PMI (JF-17)	
42	BBF-HDA-2525	HDA SERIES AC SERVO DRIVE	1	EA	PMI (JF-17)	
43	LS187C-ML2640MM	INCREMENTAL LINEAR ENCODER	2	EA	PMI (JF-17)	
44	750X750X300MM	PVC ROUND FILLS (HONEY COMB FILTER)	15	EA	PMI (JF-17)	
45	HEAD-60426921425	SPRINKLING FAN 6 INCH ALUMINUM 4 BLADES	2	EA	PMI (JF-17)	
46	6SL3000-0BE25-5AA0	ACTIVE LINE FILTER MODULE (I/R)	1	EA	PMI (JF-17)	
47	SMC-GRP-3000	SMC WATER TANK 3000 LTR	1	EA	PMI (JF-17)	
48	PWM303	DC SPEED REGULATOR	1	EA	PMI (JF-17)	
49	DK7732	CNC WIRE CUTTING MACHINE	1	EA	PMI (JF-17)	
50	YELLOW-JACKET-49137	HIGH PRESSURE GAS CHARGING GAUGE	4	EA	PMI (JF-17)	
51	20-6138	PLAIN BEARING CHUCKS WITH 1/2 INCH CAPACITY 1/2-20 UNF	5	EA	Structure Built Up	
52	7011S-10	MAGNETIC STAND	1	EA	Structure Built Up	
53	10421135	MERCURY THERMOMETER	5	EA	Structure Built Up	
54	I5-4670-NVIDIA-7	LED MONITOR 20	1	EA	Structure Built Up	
55	M0501	PNEUMATIC RIVETING HAMMER MEDIUM	3	EA	Structure Built Up	
56	KA320-9	PNEUMATIC DOTCO+KEYS 90 DEGREE	5	EA	Structure Built Up	
57	MAXIF/RD25B-B	AIR PREPARATION UNIT(FILTER/REGULATOR+LUBRICATOR)	4	EA	Structure Built Up	
58	CORE-I7-8THGEN	PDM COMPUTER	3	EA	Structure Built Up	Processor: Intel core I7, Motherboard: 8th Gen Ram: 16GB DDR 4, Hard Disk: 500GB SSD, CD ROM: CD Drive, Graphic Card: 4GB,Network Card Key Board, Mouse
59	10AG/AMF-400	WORKSTATION PC BASED DIGITAL VIDEO RECORDER	1	EA	Provost Sqn JF-17	Specification attached
60	4710PK0011627	ALUMINIUM PIPE 96"X63.5MM	8	EA	Tech Store (JF-17)	
61	P2220	OSCILLOSCOPE VOLTAGE PROBE 104-516	2	EA	W/Shop 104(a)	
62	1406/0015KHJ0891	DOWTY SEAL FOR TESTER	12	EA	W/Shop 104(a)	
63	WS-BAG-500X160MM	WELL SEALED HIGH TEMPERATURE PLASTIC BAG	100	EA	W/Shop 104(a)	
64	10G/3227	TEMP RECORDER RIBBON CASSETTE	6	EA	W/Shop 106(PPG)	
65	SDM-3200	STRAIGHT DRILL MACHINE	4	EA	W/Shop 106(PPG)	
66	D00414-2.5MM	CHROME MILL CUTTER (HSS) 2.5MM	5	EA	W/Shop 106(PPG)	

S No	Part No	Noun	Qty	UI	Section	Remarks
67	UN/IMP/25MM	UNCOMPRESSABLE RUBBER SHEET (IMPORTED) 25 MM	100	FT2	W/Shop 106(PPG)	
68	WRNK-133	THERMO COUPLE 5M 4MM	6	EA	W/Shop 106(PPG)	
69	SCJN-600-01	SENSO DIGITAL CONTROL GAUGE	1	EA	W/Shop 106(PPG)	
70	KRD-58192R4096Z01	ROTARY ENCODER	1	EA	W/Shop 106(PPG)	
71	SWF5-01	ROTARY ENCODER WIRE (RANGE 5M)	1	EA	W/Shop 106(PPG)	
72	SWH3-01	ROTARY ENCODER WIRE (RANGE 3M)	1	EA	W/Shop 106(PPG)	
73	KRD-S8192R4096Z01(SWH2-01)	ROTARY ENCODER 2METER	2	EA	W/Shop 106(PPG)	
74	KRD-S8192R4096Z01(SWF10B-01)	ROTARY ENCODER 10METER	2	EA	W/Shop 106(PPG)	
75	67350336-16	SEAL PROFILE	1	EA	W/Shop 106(PPG)	
76	10G/AMF-3226	TEMP RECORDER PAPER Z-TYPE B	2	BOX	W/Shop 106(PPG)	
77	67350189-72	TRAY PAD	2	EA	W/Shop 106(PPG)	
78	6735099-AZ	DIAPHRAGM LINING KIT	1	SET	W/Shop 106(PPG)	
79	2710-2-0540-1REXROTHMECMAN	PNEMATIC CYLINDER	6	EA	W/Shop 106(PPG)	
80	2199029-K	SPRING DEVICE	38	EA	W/Shop 106(PPG)	
81	2199029-M	SPRING DEVICE	4	EA	W/Shop 106(PPG)	
82	HFL70SSP	JAW PLATES WITH INSERT PIECE	8	PC	W/Shop 106(PPG)	
83	HS40SSP	JAW PLATE (HS40SSP426/1)	8	PC	W/Shop 106(PPG)	
84	CX08X350(91-05)	IMPACTING HEAD (ELASTIC FORMER TYPE 91 PART)	8	EA	W/Shop 106(PPG)	
85	CX08X350(91-06)	JAW PLATES (ELASTIC FORMER TYPE 91 PART)	8	EA	W/Shop 106(PPG)	
86	WAGN68Q8	OIL CARTIGE	5	EA	W/Shop 106(PPG)	
87	2057466	AIR FILTTER ELEMENAT	2	EA	W/Shop 106(PPG)	
88	21525074-E	RUBBER FILING	2	EA	W/Shop 106(PPG)	
89	ESG/B-FRTB1	TEMPRETURE ALARM CONTROLLER	2	EA	W/Shop 106(PPG)	
90	2860BF6B010000	TEMPRETURE RECORDER	1	EA	W/Shop 106(PPG)	
91	437106(UR20000)	TEMPRETURE RECORDER	1	EA	W/Shop 106(PPG)	
92	46252019	SERVO VALVE	1	EA	W/Shop 106(PPG)	
93	78110594	TESA DIGITAL INTERNAL MICROMETER	1	SET	W/Shop 107	
94	A-5004-2019	STEEL BODY (DIA 0.5MM & LENGTH 20MM)	5	EA	W/Shop 107	
95	MF3830LA	CORE HOLD TAPE	50	EA	W/Shop 107	
96	P6001-D1200RGRADEWXP45	INSERT	10	EA	W/Shop 107	
97	ICP200IC908	ISCAR INSERT	5	EA	W/Shop 107	
98	TCGT110202FLAH1	BORING INSERT	20	EA	W/Shop 107	
99	TPGP080202FLAH1	BORING INSERT (CARBIDE)	30	EA	W/Shop 107	
100	XOEX120408R-M07MS2050	INSERT	40	EA	W/Shop 107	
101	XOEX120431R-M07MS2050	INSERT	45	EA	W/Shop 107	
102	R390-180612M-PM1025	INSERT	30	EA	W/Shop 107	
103	R390-180612H-PL1025	INSERT	50	EA	W/Shop 107	
104	880-0704W10H-P-LM4344	INSERT	60	EA	W/Shop 107	
105	TPGT080204LFWT1500Z	INSERT	50	EA	W/Shop 107	
106	880-0303W06H-P-LM4344	INSERT	60	EA	W/Shop 107	
107	880-0403W07H-P-LM4344	INSERT	65	EA	W/Shop 107	

S No	Part No	Noun	Qty	UI	Section	Remarks
108	P6001-D18.00RWXP45	INSERT	10	EA	W/Shop 107	
109	TCMT16T308-MM2025	CORO TURN POSITIVE BASIC-SHAPE INSRT	40	EA	W/Shop 107	
110	P8001D20R16R-A57	INSERTS	30	EA	W/Shop 107	
111	RDHW1204M0-A57	INSERTS	65	EA	W/Shop 107	
112	ZDGT150425R-K85	INSERT2.5	65	EA	W/Shop 107	
113	ZDGT150404R-K85	INSERT0.4	40	EA	W/Shop 107	
114	ZDGT150420R-K87	INSERT2	10	EA	W/Shop 107	
115	ZDGT200540R-K89	INSERT4	10	EA	W/Shop 107	
116	XDHX190450FR-27P	INSERT	30	EA	W/Shop 107	
117	XDHX190440FR-27P	INSERT	20	EA	W/Shop 107	
118	XDHX190425FR-27P	INSERT	20	EA	W/Shop 107	
119	XDHX190420FR-27P	INSERT	50	EA	W/Shop 107	
120	XDHX190416FR-27P	INSERT	40	EA	W/Shop 107	
121	XDHX190408FR-27P	INSERT	20	EA	W/Shop 107	
122	XDHX190404FR-27P	INSERT	40	EA	W/Shop 107	
123	XDHX190402FR-27P	INSERT	20	EA	W/Shop 107	
124	DCMT11T308	INSERTS	40	EA	W/Shop 107	
125	XDHX190412FR-27P	INSERT	40	EA	W/Shop 107	
126	030700022	ACCUMULATOR	1	EA	W/Shop 107	
127	A5.514.70200	PNEUMATIC FILTER ELEMENT SMC-AMG-EL250	6	EA	W/Shop 107	
128	A5.514.61700	AIR FILTER ELEMENT	10	EA	W/Shop 107	
129	A5.514.61600	AIR FILTER ELEMENT	6	EA	W/Shop 107	
130	A4.600.01800	FILTERS OF ELECTRICAL CABINETS 30103010	50	EA	W/Shop 107	
131	020402091	HAND-HELD CONTROLLER	1	EA	W/Shop 107	
132	020402029	HAND-HELD CONTROLLER	1	EA	W/Shop 107	
133	A5.199.45400	SPINDLE BEARING (REAR)	4	EA	W/Shop 107	
134	A5.199.45300	SPINDLE BEARING (FRONT)	4	EA	W/Shop 107	
135	R901224238	PRESSURE CUT OFF VALVE	3	EA	W/Shop 107	
136	531014730	ACCUMULATOR 10 LTR (BOSH)	1	EA	W/Shop 107	
137	033101081	COOLANT ROLLER FILTER 25 UM (LASMA)	2	EA	W/Shop 107	
138	033101063	OIL MIST ELIMINIATOR	10	EA	W/Shop 107	
139	032400034	COOLANT SUCTION GRID FILTER	2	EA	W/Shop 107	
140	030621167	COOLANT FILTER WITH CARTRIGE	10	EA	W/Shop 107	
141	030621015	COOLANT FILTER CARTRIDGE	10	EA	W/Shop 107	
142	A551204500	PUMP WITH MOTOR	2	EA	W/Shop 107	
143	30100056	HYDRAULIC PUMP	2	EA	W/Shop 107	
144	30100050	HYDRAULIC PUMP	1	EA	W/Shop 107	
145	A4.208.17400	VOGEL PRESSURE SWITCH	3	EA	W/Shop 107	
146	GXLZY2GWT/10*12*60R3	END MILL	15	EA	W/Shop 107	
147	JDXTIZYGWF/10*22*28R1	END MILL	20	EA	W/Shop 107	
148	GXLZY2GWT/10*12*45R1	END MILL	20	EA	W/Shop 107	
149	GXLZY2GWT/6*10*35R3	END MILL	10	EA	W/Shop 107	
150	HM6/03Z2D05	BALL END MILL	10	EA	W/Shop 107	
151	GXLZY2GWT/4*6*10R2	END MILL	15	EA	W/Shop 107	
152	GXLZY2GWT/4*10*20R2	END MILL	15	EA	W/Shop 107	

S No	Part No	Noun	Qty	UI	Section	Remarks
153	S5024.0	B/E/MILL(CARBIDE) 4MM	15	EA	W/Shop 107	
154	A148.2.0	DRILL	14	EA	W/Shop 107	
155	A148.2.5	DRILL	3	EA	W/Shop 107	
156	A148.2.6	DRILL	4	EA	W/Shop 107	
157	A148.2.4	DRILL	3	EA	W/Shop 107	
158	A148.3.1	DRILL	11	EA	W/Shop 107	
159	A148.3.2	DRILL	4	EA	W/Shop 107	
160	A148.3.3	DRILL	4	EA	W/Shop 107	
161	A148.3.4	DRILL	4	EA	W/Shop 107	
162	A148.4.0	DRILL	20	EA	W/Shop 107	
163	A148.4.1	DRILL	20	EA	W/Shop 107	
164	A148.4.2	DRILL	20	EA	W/Shop 107	
165	A148.4.3	DRILL	20	EA	W/Shop 107	
166	A148.4.4	DRILL	2	EA	W/Shop 107	
167	A148.4.5	DRILL	20	EA	W/Shop 107	
168	A148.4.6	DRILL	20	EA	W/Shop 107	
169	A148.4.7	DRILL	20	EA	W/Shop 107	
170	A148.4.8	DRILL	2	EA	W/Shop 107	
171	A148.4.9	DRILL	20	EA	W/Shop 107	
172	A148.5.1	DRILL	2	EA	W/Shop 107	
173	A148.6.0	DRILL	20	EA	W/Shop 107	
174	A148.6.1	DRILL	20	EA	W/Shop 107	
175	A148.6.2	DRILL	20	EA	W/Shop 107	
176	A148.6.5	DRILL	20	EA	W/Shop 107	
177	K1411M-1X4	CENTRE DRILL(WALTER)	10	EA	W/Shop 107	
178	K1411M-1.5X4	CENTRE DRILL(WALTER)	10	EA	W/Shop 107	
179	K1411M-2X4	CENTRE DRILL(WALTER)	10	EA	W/Shop 107	
180	K1411M-2.5X4	CENTRE DRILL(WALTER)	10	EA	W/Shop 107	
181	JGXLZY2GWT/6X10X20R1	SPECIAL CUTTING TOOL	30	EA	W/Shop 107	
182	HM6/04Z2D06	BALL END MILL	30	EA	W/Shop 107	
183	HM3/06Z2D10	END MILL	25	EA	W/Shop 107	
184	H6028818-12-1.5	END MILL CORNER RADIUS1.5	12	EA	W/Shop 107	
185	HSK63E9304580103100	SHRINK FIT BLADE COVER	5	EA	W/Shop 107	
186	HSK63E9304580106100	SHRINK FIT BLADE COVER	2	EA	W/Shop 107	
187	ISO50DIN69871-ADB50ER25.160	COLLET CHUCK HOLDER	5	EA	W/Shop 107	
188	JZLZ/2.5*10*15	MAE0250MB DRILL REAMER	30	EA	W/Shop 107	
189	JZLZ/3.1*18*23	MAE0310MB DRILL REAMER	30	EA	W/Shop 107	
190	ZLM/14*120*155	LONG DRILL 14MM	10	EA	W/Shop 107	
191	GXLZY2GWT/32*40*120R3	END MILL	3	EA	W/Shop 107	
192	E3416560306100	BT50 SHRINK FIT HOLDER	1	EA	W/Shop 107	
193	E930458001075	SHRINK FIT BLADE COVER	5	EA	W/Shop 107	
194	HSK63-E9304-5801-06140	SHRINK FIT BLADE COVER	3	EA	W/Shop 107	
195	JZLZ/4*20*25	MAE0400MB SPECIAL DRILL REAMER	20	EA	W/Shop 107	
196	GXLZY2GWT/16*18*50R0	MILLING CUTTER	10	EA	W/Shop 107	

S No	Part No	Noun	Qty	UI	Section	Remarks
197	JGXLZY2GWT/12*23*35R0	MILLING CUTTER	15	EA	W/Shop 107	
198	JDXTIZY5GNT/16*32*45R1	MILLING CUTTER	10	EA	W/Shop 107	
199	DXTIZY4GWT/12*36*40R3	MILLING CUTTER	15	EA	W/Shop 107	
200	GXLZY2GWT/12*24*40R3	MILLING CUTTER	15	EA	W/Shop 107	
201	JDCBZY4GWT/12*15*72R1	MILLING CUTTER	10	EA	W/Shop 107	
202	GXLZY2GWT/8*35*50R4	CARBIDE END MILL	10	EA	W/Shop 107	
203	JGXLZY2GWT/6*10*20R3	SPECIAL MILLING CUTTER	10	EA	W/Shop 107	
204	LXLZY3GWT/10*2*15*30	LAPPING TOOL	10	EA	W/Shop 107	
205	LXLZY3GWT/12*2*15*50	LAPPING TOOL	10	EA	W/Shop 107	
206	GXLZY2GWT/12*14*50R0.5	END MILLING CUTTER	7	EA	W/Shop 107	
207	YXLPY2GWT/30*24*65R3	END MILLING CUTTER	5	EA	W/Shop 107	
208	JDZBAYGW/40*80*80*DEG180	CORO DRILL B3212.F.040.Z01.080R	5	EA	W/Shop 107	
209	ZLM/15*95*110	DRILL	2	EA	W/Shop 107	
210	JZLZ/15*55*65	DRILL REAMER 15MM	5	EA	W/Shop 107	
211	ZLM/9*50*80	DRILL	5	EA	W/Shop 107	
212	HSK63E9304580104100	SHRINK FIT BLADE COVER	5	EA	W/Shop 107	
213	HSK63E930458000670	SHRINK FIT BLADE COVER	5	EA	W/Shop 107	
214	HSK63E930458000870	SHRINK FIT BLADE COVER	5	EA	W/Shop 107	
215	HM3/05Z2D08	END MILL	15	EA	W/Shop 107	
216	HM3/07Z2D12	END MILL	20	EA	W/Shop 107	
217	GXLZY2GWT/12*14*60R0	END MILL	20	EA	W/Shop 107	
218	DCLZY4GWT/20X20X140R1	SPECIAL CUTTING TOOL	3	EA	W/Shop 107	
219	JGXLZY2GWT/20X24X80R1	SPECIAL CUTTING TOOL	10	EA	W/Shop 107	
220	JGXLZY2/8X10X35R1	SPECIAL CUTTING TOOL	15	EA	W/Shop 107	
221	JGXLZY2GWT/8X10X45R1	SPECIAL CUTTING TOOL	10	EA	W/Shop 107	
222	S5028.0	B/E/MILL (CARBIDE) 8MM	20	EA	W/Shop 107	
223	A148.2.7	DRILL	20	EA	W/Shop 107	
224	A148.6.4	DRILL	20	EA	W/Shop 107	
225	JDXBZY4GWT/16*36*50R3	END MILL	10	EA	W/Shop 107	
226	R1001.5	ALLOY DRILL DIA 1.5X38	10	EA	W/Shop 107	
227	R1001.6	DRILL CARBIDE	10	EA	W/Shop 107	
228	R1001.8	DRILL CARBIDE	10	EA	W/Shop 107	
229	R1001.9	DRILL CARBIDE	10	EA	W/Shop 107	
230	R1002.7	DRILL CARBIDE	10	EA	W/Shop 107	
231	R1008.9	DRILL CARBIDE	10	EA	W/Shop 107	
232	10AC/AMF-001	ROTARY WIRE BRUSH	5	EA	W/Shop 109	
233	RD7006005000000	GAS INLET VALVE N2	1	EA	W/Shop 110	
234	ZYC2-65-TBSL	FURNACE TOP BOX SEAL	30	FT	W/Shop 110	
235	ZYC2-65-MDSL	FURNACE MIDDLE DOOR SEAL	30	FT	W/Shop 110	
236	3216/CC/VH/LRXX/R/G/ENG	TEMPRATURE CONTROL	1	EA	W/Shop 110	
237	SR93-8Y-N-90-1000	TEMPERATURE CONTROLLER SR 93	1	EA	W/Shop 110	

DEFECT REPORT / SCOPE OF WORK

BA No 751-183 Type HINO BUS Engine No 1DZ TOYOTA Deployment MT POOL

Part No 16A/AMF-66 Noun HINO SHANGRILLA BUS Defect REAR AC ENGINE LESS PULLING

Detail Scope of Work as under: -

Source of repair:

S No	Scope Of Work	Qty	Status	Addition/Deletion Scope of Work	Qty	Status
01	Valve inlet & exhaust	Set-01	LP	Head cylinder	Ea-01	L/R
02	Main bearing	Set-01	LP	Block cylinder	Ea-01	L/R
03	Thrust washer	Set-01	LP	Radiator	Ea-01	L/R
04	Valve Guide	Set-01	LP	Pump fuel injection	Ea-01	L/R
05	Seal cam & Crank shaft	Ea-02	LP	Nozzles	Ea-06	L/R
06	Valve seal	Set-01	LP	Starter	Ea-01	L/R
07	Shallock + Silicone	Ea-02	LP	Generator	Ea-01	L/R
08	Piston assy	Ea-04	LP	Crank shaft	Ea-01	L/R
09	Ring Set piston	Set-01	LP	Cam shaft	Ea-01	L/R
10	Bearing big end	Set-01	LP	Connecting Rod	Ea-04	L/R
11	Engine over hauling kit	Set-01	LP			
12	Hose clamp	Ea-04	LP			
13	Hose radiator	Ea-02	LP			
14	Gasket cylinder head	Ea-01	LP			
15	Water Pump	Ea-01	LP			
16	Oil Pump	Ea-01	LP			
17	Fan belt	Ea-02	LP			
18	Engine mounting	Ea-01	LP			

DEFECT REPORT / SCOPE OF WORK

BA No 751-182 Type HINO BUS Deployment MT POOL

Part No 16A/AMF-66 Noun HINO SHANGRILLA BUS Defect REAR AC ENGINE LESS PULLING

Detail Scope of Work as under: -

Source of repair:

S No	Scope Of Work	Qty	Status	Addition/Deletion Scope of Work	Qty	Status
01	Valve inlet & exhaust	Set-01	LP	Head cylinder	Ea-01	L/R
02	Main bearing	Set-01	LP	Block cylinder	Ea-01	L/R
03	Thrust washer	Set-01	LP	Radiator	Ea-01	L/R
04	Valve Guide	Set-01	LP	Pump fuel injection	Ea-01	L/R
05	Seal cam & Crank shaft	Ea-02	LP	Nozzles	Ea-06	L/R
06	Valve seal	Set-01	LP	Starter	Ea-01	L/R
07	Shallock + Silicone	Ea-02	LP	Generator	Ea-01	L/R
08	Piston assy	Ea-04	LP	Crank shaft	Ea-01	L/R
09	Ring Set piston	Set-01	LP	Cam shaft	Ea-01	L/R
10	Bearing big end	Set-01	LP	Connecting Rod	Ea-04	L/R
11	Engine over hauling kit	Set-01	LP			
12	Hose clamp	Ea-04	LP			
13	Hose radiator	Ea-02	LP			
14	Gasket cylinder head	Ea-01	LP			
15	Water Pump	Ea-01	LP			
16	Oil Pump	Ea-01	LP			
17	Fan belt	Ea-02	LP			
18	Engine mounting	Ea-01	LP			

Work Station PC Based Digital Video Recorder

Processor (CPU): Intel ® Core i7 7th Gen or Higher
Motherboard: Intel ® B150 chipset or higher / upgraded
Ram: 16GB DDR 4, Hard Disk: 1 TB HDD,
Graphic Card: NVIDIA ® 8GB DDR-5
DVD Drive: 24 x Dual Layer DVD writer R/RW
Processor Cooling: Intel standard CPU cooler
Sound Card: Onboard 8 channel (7.1) high definition audio (as standard)
Wireless / Wired Networking: Onboard 10/100/1000 gigabit LAN ports
USB Options: Min 1 x USB 3.0&4 x USB 2.0 ports at back panel plus min 2 front usb Ports
Power Cable: 2 sets standard power cable
HDMI: 10 meter , 4k supported & copper conductor
VGA: 10meter branded
Operating System: Windows 8.1 64 bit or window 10
Wireless Keyboard & Mouse (Branded)
LED: 24" 1080P full HD LED
Power Supply: Standard power supply with surge protection
Warranty: 03 year warranty (hardware software)
Support: Onsite installation,commissioning,training & support
(Latest specifications also acceptable)