

# CORRIGENDUM

This is with reference to our advertisement subject  
**“Component Support Program for PIA A320 Fleet  
Aircrafts on Flight Hour Basis.”**

The date of opening of tender has been extended till  
**20th July, 2022** instead of **6th July, 2022**.

The tender date may now be read as **20th July, 2022**

**General Manager Contract Management**

**Supply Chain Management**

**PIA Head Office, Karachi.**

**Ph: +92-21 99043158 - 99044216**

**Email: gm.cm@piac.aero**

# TENDER NOTICE

Pakistan International Airlines (PIA) invites **"Sealed bids"** on **"Single Stage Two Envelope Basis"** from interested parties for the **Component Support Program for PIA A320 Fleet Aircrafts on Flight Hour Basis.**

The complete set of bidding documents containing the details of services required, instructions and terms and conditions for the tender (that form an integral part hereof and hereby incorporated by reference) can be downloaded from PIA website <https://www.piac.com.pk/corporate/sales-procurement/tenders> or Public Procurement Regulatory Authority website ([www.ppra.org.pk](http://www.ppra.org.pk)) or can be obtained from the office during working hours:

**General Manager Contract Management**

**Supply Chain Management**

**PIA Head Office, Karachi.**

**Ph: +92-21 99043158 - 99044216**

**Email: gm.cm@piac.aero**

**Closing Date:**

The bids, prepared in accordance with the instructions in the bidding documents, must reach at Contract Administration Cell Supply Chain Management Department PIA Head Office, Karachi, latest by **July 06, 2022**, on or before **10:30 Hrs, (PST).**

The Bids will be opened the same day **July 06, 2022, at 11:00 Hrs. (PST).**

# **BIDDING DOCUMENT**

## **FOR**

Component Support Program for PIA A320 Fleet  
Aircrafts on Flight Hour Basis.

Pakistan International Airlines

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## **Preamble**

This document is divided into four sections.

- The first section gives interested parties an overview of the process and explains in detail as to how they should submit their bids and how their bids will be evaluated by PIA.
- The second section contains general terms which shall form the basis of the CSP Program agreement between PIA and the successful bidder.
- The third section covers “Section C – Special Conditions of Contract;”
  - a) PIA Fleet and Other Information
  - b) Pre-Requisites / Compulsory Requirements of the Program and Agreement.
- The fourth section provides the interested bidders with an overview of PIA’s evaluation process to maintain complete transparency and criteria to determine the best suited offer.

The annexure contained thereafter are the standardized formats on which PIA expects to receive the actual offers from the interested bidders.

## **Section A - Instructions to Bidders**

### **1. Scope of Bid**

Pakistan International Airline (PIA) invites "sealed bids" from interested parties for the Component Support of its A320 Fleet on Flight Hour Basis. The services must include following,

- Access to a pool of rotatable components on a one-for-one exchange basis, the processes to demand, deliver and return those components to/from the supplier, and
- The test, repair, overhaul, modification and scrap replacement of those exchanged components.

### **2. Parties qualified to apply**

MRO's / Operators/ OEM / Service Providers etc having legal right to sign the CSP agreement.

### **3. Cost of Bidding**

The bidder shall bear all costs associated with the preparation and submission of its bid and PIA will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

### **4. Bidding Documents**

For the purpose of this bidding process, the term "Bidding Documents" shall include:

- i. Invitation for Bids
- ii. Instructions to Bidders
- iii. General Conditions of Contract
- iv. Special Conditions of Contract
- v. Evaluation of Bids
- vi. Annexures
  - a) Specifications & Technical Proposal (Annex 'I')
  - b) Form of Bid (Annex 'II')
  - c) Integrity Pact (Annex 'III')
  - d) Financial Proposal (Annex 'IV')

The bidders are expected to examine all the above, prior to submission of their bids.

The 'Instructions to Bidders' will not be part of Contract and will cease to have effect once the Contract is signed.

## **5. Clarification on Bidding Documents**

A prospective bidder requiring any clarification(s) in respect of the Bidding Document shall notify PIA in writing. PIA will respond to any request for clarification which it receives earlier than five (5) days prior to the deadline for the submission of bid. For clarification on bidding document, an email may be sent to all of the following addresses:

[piaplng@piac.aero](mailto:piaplng@piac.aero), [rotplng@piac.aero](mailto:rotplng@piac.aero), [a320.csp@piac.aero](mailto:a320.csp@piac.aero) and [contract.tech@piac.aero](mailto:contract.tech@piac.aero)

## **6. Amendment to Bidding Document**

At any time prior to the deadline for submission of bid, PIA may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the tender document by issuing addendum(s).

## **7. Extension in Submission Dates**

At any time prior to the deadline for submission of bid, PIA may, for any reason, whether at its own initiative or to provide prospective bidders reasonable time, in which to take an addendum into account, at its discretion extend the deadline for submission of bids.

## **8. Submission of Bid**

Interested bidders will have to submit their offer in sealed envelopes either in person or through courier. The offer should be clearly marked as "**Bid for A320 Component Support Program on FH Basis**".

## **9. Tender Proceedings**

Single stage two envelope bidding procedure will be followed:-

Each bid shall comprise two sealed envelope. All bids received shall be opened and evaluated in the manner prescribed in the bidding document.

Bidders will be required to submit following two proposals.

- ☐ Technical Proposal
- ☐ Financial/Commercial Proposal

**i) Technical Proposal:** Technical Proposal shall comprise of the following along with the covering letter on the official letter pad of the bidder;

**a) Bidder Profile:** A brief company profile highlighting portfolios and customer details. State company profile and experience in managing Rotable pools,

supporting A320, CFM56-5B. Also provide details on in-house repair capability based in percentage of total components, number of A320 aircraft supported by your pool (total), List of existing A320 CSP Customers. Infrastructure for customer support, AOG Desk 24 hours-a-day, 365 days-a-year.

**b) Technical Information:** The information on services as per the Annex 'I'. In case the bidder wishes to include additional technical information separate sheets may be added.

**c) Form of Bid:** Duly completed and signed by the bidder as per format provided in Annex 'II'. No alteration is to be made in the Form of Bid except in filling up the blanks.

**d) Integrity Pact:** The bidder shall sign and stamp the Form of Integrity Pact provided at 'Annex – III' which is a mandatory requirement of Government of Pakistan.

**ii) Financial Proposal:** The Financial proposal should be submitted in line with the requirements highlighted in the Bidding Document and as per Schedule of Prices in the format described in Annex 'IV'.

## **10. Bid Related Details:**

Below information should be noted while preparing and submitting the bids.

**i) Currency of Bid:** All the prices provided in the bid shall be in US Dollars (US\$).

**ii) Bid Validity:** The bid shall have to be valid for a period of 90 days from closing date of tender.

**iii) Language of Bids:** The bids prepared by the bidder and all correspondence and documents relating to the bid, exchanged between the bidder and PIA shall be written in the English language. If a document is other than English language then bidder shall provide a true copy of that document in English.

**iv) Format and Signing of Bids:** The bidder shall prepare one set of the bid typed or written in indelible ink and shall be signed by the Authorized Representative of the bidder (who should be an employee of the bidder).

**v) Sealing and Marking:** Technical Proposal and Financial Proposal should be clearly marked and submitted in two separate envelopes. The Complete Package / envelope should bear

the name and address of the sender and clearly marked as **"Bid for A320 Component Support Program on FH Basis"**. If the envelope is not sealed and marked, PIA will assume no responsibility for the bid's misplacement or premature opening.

### **11. Deadline for Submission of Bids:**

Bids must be received by PIA at the following address no later than the Date and Time mentioned in the advertisements published in media. Bids will be opened the same day at the specified time.

**General Manager**

**Contract Administration Cell**

**Supply Chain Management**

**Pakistan International Airlines**

**JIAP Karachi**

**Tel: +92 21 9904 3158, / +92 21 9904 4101**

**Email: [contract.administration@piac.aero](mailto:contract.administration@piac.aero)**

### **12. Late Bids:**

Any bid received by PIA after the bid submission deadline time, for any reason whatsoever, shall be rejected and returned to the bidder.

### **13. Modification and Withdrawal of Bids:**

The bidder may modify or withdraw its Bid after submission, provided that written notice of the modification or withdrawal is received by PIA prior to the deadline prescribed for bid submission.

### **14. Opening of Bids:**

Pakistan International Airlines will open the bids on the Date and Time mentioned in the advertisements published in media, in PIA Supply Chain Management Building, near PIA Head Office, Jinnah International Airport, and Karachi 75200, Pakistan. Authorized representatives of the bidders can attend the bid opening.

### **15. Bid Read Out:**

Following details of each bid shall be read out in front of all the participants present during the bid opening:

- a) Bidder's Name
- b) Bidder's Status (i.e. MRO, OEM, Service Provider etc)

### **16. Preliminary Examination of Bids:**

PIA will examine the bids to determine whether they are complete and generally in order.

Prior to the detailed evaluation of bids:

PIA will examine the Bids to determine whether;

- i) The Bid is complete and does not deviate from the scope,
- ii) Any computational errors have been made,
- iii) The documents have been properly signed,
- iv) The Bid is valid till required period,
- v) The Bidder is eligible to Bid and possesses the requisite experience,
- vi) The Bid does not deviate from basic technical requirements and
- vii) The Bids are generally in order.

A bid is likely not to be considered if it is materially and substantially different from the Conditions/Specifications of the Bidding Documents.

### **17. Qualification:**

In addition to the above, PIA will ascertain to its satisfaction whether bidders, whose bids meet the requirements of Bidding Documents, are qualified to satisfactorily perform the contract. This will take into account:

- ☐ Bidder's financial, technical capabilities and past performance.
- ☐ Documentary evidence submitted by the bidder.
- ☐ Other information as PIA deems necessary and appropriate.

### **18. Deliberations with Bidders:**

- ☐ No bidder shall be allowed to alter or modify his bid after the bids have been opened. However the PIA may seek and accept clarifications to the bid that do not change the substance of the bid.
- ☐ Any request for clarification in the bid, made by PIA shall invariably be in writing. The response to such request shall also be in writing.

### **19. Correction in Bids**

In case any arithmetic error is found in the bid, it shall be rectified as follows:

- i)** If there is a discrepancy between the unit price and total price or between subtotals and total price that is obtained by multiplying the unit price and quantity, the unit or subtotal price shall prevail and the total price shall be corrected.
- ii)** If there is a discrepancy between the words and figures the amount in words shall prevail.
- iii)** If the bidder does not accept the corrected amount of bid as determined above, the bid shall be rejected.

## **20. Evaluation of Bids**

- a)** All bids shall be evaluated in accordance with the evaluation criteria and other terms and conditions set forth in the prescribed bidding documents.
- b)** For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.

The bid for Component Support Program for PIA A320 Fleet Aircrafts on Flight Hour Basis will be evaluated to determine the "Most Advantageous Bid" as per Section 'D'.

## **21. Unsuccessful Bidders:**

Bidders whose offers have been rejected on grounds of being substantially nonresponsive or those that do not meet the Requirements shall be informed accordingly.

## **22. Ranking of Bids:**

The offered bid(s) shall be listed separately in ascending order starting from the Most Advantageous Bid. Subsequently, the average of Evaluated Bid(s) will be listed in ascending order.

## **23. Letter of Acceptance**

The Letter of Acceptance will be issued to bidder whose offer is determined as the Most Advantageous Bid as per clause 22.

## **24. PIA's Right**

PIA reserves the right to reject all bids and to annul the bidding process at any time prior to award of Contract. PIA upon request from bidder, who submitted a bid, shall communicate the grounds for its rejection of all bids, but is not required to justify those grounds. Notice of the rejection of all bids shall be given promptly to all the bidders.

## **25. Signing of Contract Agreement**

The terms and conditions highlighted under "Section B - General Condition of Contract", "Section C - Special Condition of Contract" and "Section D – Technical and Financial Criteria and submitted offers " (as per this Tender Document) shall form the basis of the CSP Agreement to be executed between the two parties.

## **Section B – General Conditions of Contract**

Following terms and conditions shall be an integral part of the CSP Agreement to be signed between PIA and the successful bidder (Service Provider) to whom the contract has been awarded.

### **1. Scope of Agreement**

The CSP Agreement shall be for the Component Support Program of aircraft on terms and conditions as explained in this Section B – General Conditions of Contract, Section C – Special Conditions of Contract and "Section D – Technical and Financial Criteria and submitted offers".

### **2. Governing Law**

Governing Law of the CSP Agreement shall be agreed mutually between PIA and the Service Provider. However, it should not be in conflict with the laws of Pakistan.

### **3. Disputes**

Any dispute shall be resolved by reference to arbitration under such forum as may be agreed between the parties.

### **4. Civil Aviation Authority Requirements**

Service provider must comply with the requirements of Pakistan Civil Aviation Authority (PCAA) and FAA / EASA with regard to CSP Program. PIA shall ensure that all PCAA and other relevant regulatory requirements are followed in the operation of the Aircrafts during the CSP term.

### **5. Payment Terms**

i) Currency of Payment: throughout the term of contract, all the payments between the two parties shall be in US Dollars.

ii) Invoice: Service Provider shall send the monthly invoice based on annual agreed FH at least ten days before the start of each period.

### **6. Taxes**

Where a Tax Avoidance Agreement (Double Taxation Treaty) exists between the respective countries of PIA and the service provider; and the PIA is obliged by law to deduct taxes against payments to the service provider, the PIA will bear the tax incidence and shall make gross payments to the service provider, without any deduction of tax chargeable in Pakistan. However, the service provider undertakes to pass on the benefit of tax credit obtained under the relevant clauses of the tax treaty to the PIA, after filing of income tax

return in its country, on the basis of proof of taxes paid by the PIA on behalf of service provider in Pakistan.

In the absence of such tax treaty, the PIA will bear the tax incidence and shall make gross payments to the service provider, without any deduction of tax chargeable in Pakistan, however, if the local laws of the service provider's country allows the foreign tax credit that is withheld by PIA then the service provider undertakes to pass on the benefit of said tax credit obtained under the relevant clauses of the local laws to the PIA, after filing of income tax return in its country, on the basis of proof of taxes paid by the PIA on behalf of service provider in Pakistan.

All other taxes, duties, levies and imposts arising from or relating to such payments outside Pakistan shall be borne by the service provider.

## **7. Insurance**

The PIA will maintain third party liability and property damage insurance, Hull insurance of agreed value and "All Risks" and "War Risks" insurance of the same type and covering the same risks as insurance customarily carried by international scheduled service providers.

## **8. Exit Clause**

Both parties shall agree to exit condition based on notice period of Four months without giving any particular reason.

## **9. Integrity Pact**

The Agreement shall contain a covenant and confirmation by the Service Provider that it has not obtained and/or induced the procurement of the CSP Agreement through any corrupt business practices. The wordings of this clause are given at Annex 'III'.

## **10. Notices**

All the notices during the CSP term to be exchanged between PIA and Service Provider shall be in writing and sent by courier, fax or email.

## **11. Indemnities**

The CSP Agreement shall have appropriate coverage to provide indemnity for PIA and Service Provider as per the normal aviation practice.

## **12. Force Majeure**

Both parties shall agree to appropriate incidents to define Force Majeure and its implications on the performance of the Agreement by either party.

## Section C – Special Conditions of Contract;

### a) PIA Fleet and Other Information

#### PIA Fleet Information:

PIA has a fleet of 12 B777, 15 A320's and 06 ATR Aircraft.

The A320 aircraft fleet of Pakistan International Airlines for which the services are required is detailed as under:

SN	MSN	Tail Registration	Remarks
1	2155	AP-BLB	On Extended Dry Lease till 2026, inducted in PIA in year 2014
2	2212	AP-BLC	
3	2719	AP-BLU	Now PIA Owned (was inducted on Dry Lease in year 2015)
4	2758	AP-BLV	
5	2789	AP-BLW	
6	3031	AP-BLA	
7	3060	AP-BLS	
8	3097	AP-BLT	PIA Owned Aircraft / Long Grounded, Reduced to spares. (was inducted on Dry Lease in year 2015). Due to above there will be no removal from this aircraft and this aircraft will not be included in FH invoices.
9	4392	AP-BMX	On Dry Lease, inducted in PIA in year 2020
10	7784	AP-BOK	On Dry Lease, inducted in PIA in year 2021
11	7792	AP-BOL	
12	5152	To be issued	Finalized for Induction in Fleet in next two months; (Dry Lease for 06 years)
13	5162	To be issued	
14	5253	To be issued	
15	5746	AP-BON	AP-BON arrived in PIA and under incoming customs / documentation.

### Program Coverage:

The CSP Program is required to cover 1 to 1 exchange of components fitted on 14 A320 aircraft in the above table. AP-BLT (at SN 08 of table) is long grounded and no longer will be brought into operation. Its components were removed in the past to service the remaining fleet demands. All the CSP and other components fitted earlier on AP-BLT are now providing 01 set of spare components.

Based on RSPL data provided by Airbus and PIA experience, a List of Components to be covered into the CSP agreement has been prepared and it is a number of 920 Component. The Part Number in the positive list and its two way interchangeable parts as per Airbus Interchangeability Code (INC 2) are required to be included in the program coverage.

The components having same form, fit and function as those in the positive list are also supposed to be included in the coverage upon request and confirmation of the attributes.

**PIA A320 Fleet, Proposed Program Coverage Positive List (Basic Part Numbers):** The PIA Proposed Components List for Coverage in the program is having 920 Basic Part Numbers of components as presented below:

(Note: All two way interchangeable alternates of the listed components will be assumed covered in the program. This means that the selected bidder / service provider shall accept and entertain exchange of any such alternate PN.)

SN	PNR	ATA	Description
1	1263A0000-03	21	MACHINE-AIR CYCLE
2	1298A0000-01	21	VALVE-CHECK
3	1312B0000-01	21	VALVE-BYPASS
4	1320A0000-01	21	VALVE-TRIM AIR
5	1806B0000-01	21	VALVE ASSY-FLOW CONTROL
6	1809A0000-01	21	ACTUATOR-INLET
7	2056C0000-02	21	CHAMBER-AIR PLENUM
8	20781-01	21	MOTOR ASSY
9	20790-20BA	21	VALVE-OUTFLOW
10	20791-02AB	21	CONTROLLER-PRESSURE
11	20791-13AD	21	CONTROLLER-PRESSURE
12	3959A0000K07	21	CONTROLLER-CSAS
13	4063-16083	21	VALVE-ISOLATION
14	41-2-1100-02	21	ACTUATOR-EMERGENCY, RAM AIR
15	600700-00-501	21	VALVE
16	70853A010001	21	VALVE-TRIM AIR PRESSURE
17	746A0000-06	21	VALVE-TRIM AIR PRESSURE
18	753C0000-02	21	EXCHANGER-HEAT, PRIMARY
19	754C0000-01	21	EXCHANGER-HEAT, MAIN
20	755C0000-01	21	REHEATER
21	756B0000-01	21	CONDENSER
22	761B0000-01	21	ACTUATOR-INLET

SN	PNR	ATA	Description
461	C19BQ0016	29	RESERVOIR-HYDRAULIC, BLUE
462	C19DS0016	29	RESERVOIR-HYDRAULIC, YELLOW
463	C19DS0026	29	RESERVOIR-HYDRAULIC, GREEN
464	C51LM0020	29	VALVE-RESERVOIR, FILLING
465	D90ST2001-000	29	GAUGE-TRANSMITTER
466	D90ST2002-000	29	GAUGE-TRANSMITTER
467	D90ST2004-000	29	SWITCH-LOW LEVEL
468	E03A00	29	VALVE ASSY-FIRE SHUTOFF
469	QA05561	29	FILTER-ASSY
470	QA05593	29	FILTER-HP
471	QA05604	29	FILTER-LP
472	QA05797	29	FILTER ASSY-HYDRAULIC
473	S4-3500711	29	MANIFOLD-GROUND SERVICE
474	VT477-2	29	INDICATOR-QUANTITY
475	ZCV212	29	VALVE-DOUBLE CHECK
476	7306SD01	29	VALVE-NON RETURN
477	AE73325K	29	COUPLING HALF
478	CZ9284E	29	TRANSDUCER-PRESSURE
479	CZ9DM6A	29	TRANSDUCER-PRESSURE
480	HTE690035-1	29	SWITCH-PRESSURE
481	70200	29	VALVE-2-2-WAY, MANUAL BLEED
482	70400	29	VALVE-RELIEF

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23	87292325V06	21	AEVC-AVIONICS EQUIPMENT VENTILATION COMPUTER
24	87292325V07	21	AEVC-AVIONICS EQUIPMENT VENTILATION COMPUTER
25	9024-15704-2	21	VALVE-SAFETY
26	B17CA1042	21	VALVE ASSY-PRESSURE REGULATION
27	EVT3454HC	21	FAN-AVIONICS
28	VD3810	21	FAN-MIXED FLOW
29	VD3900-03	21	FAN-RECIRCULATION
30	VD3920	21	FAN-EXTRACTION
31	VFT210B00	21	VALVE-SKIN AIR
32	VFT300B00	21	VALVE-SKIN AIR
33	VR3910	21	FAN-EXTRACTION
34	1091A0000-01	21	INJECTOR-WATER
35	1303A0000-03	21	VALVE-FLOW CONTROL
36	1803B0000-01	21	CONTROLLER-AIR CONDITIONING SYSTEM
37	600611-00-601	21	CONTROLLER-HEAT
38	747A0000-03	21	EXTRACTOR-WATER
39	759D0000-02	21	CONTROLLER-PACK
40	778B0200-01	21	PIPE ASSY
41	V2T127D	21	VALVE-BUTTERFLY,AIR
42	12664	21	VALVE-CHECK
43	20791-13AC	21	CONTROLLER-PRESSURE
44	21071-02AC	21	BOX-ELECTRONIC
45	34800A200-5	21	FILTER-AIR
46	3957A0000-02	21	VALVE-ISOLATION
47	3959A0000K04	21	CONTROLLER-CSAS
48	3961A0000K01	21	EXCHANGER-HEAT
49	4063-18221	21	VALVE-ISOLATION
50	600615-00-503	21	CONTROLLER- VENTILATION
51	6610-18520	21	ACTUATOR-ROTARY
52	6610-20560-01	21	ACTUATOR-ROTARY
53	748A0000-08	21	VALVE-ANTI ICING
54	756A0000-05	21	CONDENSER
55	766A0000-01	21	SENSOR-TEMPERATURE

483	HTE510016	29	VALVE-GAS CHARGING
484	38E93-5	30	VALVE-CONTROL,WING ANTI ICING
485	4-60000H883-00	30	MAST ASSY-DRAIN
486	47215920BB00	30	PHC-PROBE HEAT COMPUTER
487	6664287-0	30	WHC-WINDOW HEAT COMPUTER
488	733902-1-2	30	PHC-PROBE HEAT COMPUTER
489	733903-1-1	30	WHC-WINDOW HEAT COMPUTER
490	SAS911-002A	30	VALVE-CONTROL,WING ANTI ICING
491	4279198	30	MOTOR CONVERTER
492	4279204	30	MOTOR CONVERTER
493	4307785	30	MOTOR CONVERTER
494	4307792	30	MOTOR CONVERTER
495	3217-200	30	VALVE-RAIN REPELLENT
496	4020W35-3	30	GAGE-RAIN REPELLENT
497	Z212H0001110	30	CONTROL UNIT
498	Z212H0010110	30	CONTROL UNIT
499	Z220H0002110	30	CONTROL UNIT
500	864-001	30	INDICATOR-LIGHTED,ICING
501	0871DP4	30	DETECTOR-ICE
502	1982660116	31	DMC-DISPLAY MANAGEMENT COMPUTER
503	2100-4245-00	31	SSFDR-SOLID STATE FLIGHT DATA RECORDER
504	2234320-01-01	31	FDIMU-FLIGHT DATA INTERFACE MANAGEMENT UNIT
505	2234320-02-02	31	FDIMU-FLIGHT DATA INTERFACE MANAGEMENT UNIT
506	2243800-364	31	QAR-QUICK ACCESS RECORDER
507	2243800-73	31	QAR-QUICK ACCESS RECORDER
508	2248000-61	31	QAR-QUICK ACCESS RECORDER
509	35-0D5-1003	31	LOUDSPEAKER- AMPLIFIER,COCKPIT
510	350E053021818	31	FWC-FLIGHT WARNING COMPUTER
511	350E5500204	31	SDAC-SYSTEM DATA ACQUISITION CONCENTRATOR
512	350E5500206	31	SDAC-SYSTEM DATA ACQUISITION CONCENTRATOR
513	35-0L0-1001-04	31	ECP-ECAM CONTROL PANEL
514	3907130402	31	DU-DISPLAY UNIT
515	8055515-4501	31	PRINTER-MULTI USE

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56	767A0000-04	21	SENSOR-TEMPERATURE	516	9615325060	31	DMC-DISPLAY MANAGEMENT COMPUTER
57	769B0000-01	21	VALVE-CHECK	517	980-4700-042	31	SSFDR-SOLID STATE FLIGHT DATA RECORDER
58	775D0000-01	21	CONTROLLER-ZONE	518	2100-4043-02	31	SSFDR-SOLID STATE FLIGHT DATA RECORDER
59	777A0000-01	21	SELECTOR-TEMPERATURE	519	980-4750-001	31	SSFDR-SOLID STATE FLIGHT DATA RECORDER
60	778A0500-03	21	PIPE ASSY	520	AC68A200	31	MDDU-MULTIPURPOSE DISK DRIVE UNIT
61	778A0600-05	21	PIPE ASSY	521	C12860AA02	31	CFDIU-CENTRALIZED FAULT DISPLAY INTERFACE UNIT
62	87232323V00	21	SENSOR-DUCT TEMPERATURE,AVIONICS COMFORT	522	C12860AA03	31	CFDIU-CENTRALIZED FAULT DISPLAY INTERFACE UNIT
63	QB0452	21	FILTER-AIR	523	C12860AA04	31	CFDIU-CENTRALIZED FAULT DISPLAY INTERFACE UNIT
64	QB0658-01	21	HOUSING-FILTER,AIR RECIRCULATION	524	C19298AF05	31	DU-DISPLAY UNIT
65	V2T152D	21	VALVE-BUTTERFLY,AIR	525	C19755BA01	31	EDU-ENHANCED DISPLAY UNIT
66	1209-100	21	SWITCH-PRESSURE	526	DLRBA000	31	DLRB-DATA LOADING ROUTING BOX
67	600612-00-510	21	SENSOR-TEMPERATURE	527	DLSA100	31	SELECTOR-DATA LOADING
68	CT141-1	21	VALVE-CHECK	528	ED48A100	31	FDIMU-FLIGHT DATA INTERFACE MANAGEMENT UNIT
69	CT191B	21	VALVE-CHECK	529	ED48A200	31	FDIMU-FLIGHT DATA INTERFACE MANAGEMENT UNIT
70	23545-01BA	21	BOX-ELECTRONIC	530	APE5100-1	31	CLOCK
71	87232323V01	21	SENSOR-DUCT TEMPERATURE,AVIONICS COMFORT	531	17A717-03-00	31	ACCELEROMETER
72	3958A0000-01	21	VALVE-BYPASS	532	3001-01-111	31	ACCELEROMETER
73	3964A0000K01	21	SENSOR-TEMPERATURE	533	CMK80-01	31	SWITCH-PRESSURE
74	195PN01Y01	22	INDICATOR-RUDDER TRIM	534	DK120-90	31	BEACON- ACOUSTIC,UNDERWATER LOCATOR 90 DAYS
75	4077880-982	22	MCDU-MULTIPURPOSE CONTROL AND DISPLAY UNIT	535	266E5542-00	31	BEACON- ACOUSTIC,UNDERWATER LOCATOR 90 DAYS
76	4089740-961	22	MCDU-MULTIPURPOSE CONTROL AND DISPLAY UNIT	536	088256-04644	32	ACCUMULATOR
77	B397BAM0624	22	FAC-FLIGHT AUGMENTATION COMPUTER	537	10-450701-000	32	DAMPER
78	C12850AC02	22	FCU-FLIGHT CONTROL UNIT	538	10-451701-000	32	ACTUATOR-RETRACTION
79	C12850AC03	22	FCU-FLIGHT CONTROL UNIT	539	114079017	32	SELECTOR-GEAR,ELECTRO-HYDRAULIC
80	C12850BC03	22	FCU-FLIGHT CONTROL	540	114087006	32	VALVE-BYPASS,DOOR

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			UNIT				
81	C13042AA07	22	FMGC-FLIGHT MANAGEMENT AND GUIDANCE COMPUTER	541	114095004	32	ACTUATOR-LOCKSTAY
82	C13043AA04	22	FMGC-FLIGHT MANAGEMENT AND GUIDANCE COMPUTER	542	114122014	32	ACTUATOR-DOOR,MLG
83	C13206AA00	22	FAC-FLIGHT AUGMENTATION COMPUTER	543	114122015	32	ACTUATOR-DOOR,MLG
84	C13208AA00	22	FMGC-FLIGHT MANAGEMENT AND GUIDANCE COMPUTER	544	114170008	32	MANIFOLD-ASSY,SELECTOR
85	C19266EA01	22	MCDU-MULTIPURPOSE CONTROL AND DISPLAY UNIT	545	114170009	32	MANIFOLD-ASSY,SELECTOR
86	530AL01CN	22	PSDU-POWER SUPPLY DECOUPLING UNIT	546	1905A0000-01	32	VALVE-SAFETY
87	064-50000-2051	23	TRANSCEIVER-VHF	547	201419001-020	32	DAMPER
88	064-50000-2052	23	TRANSCEIVER-VHF	548	201590002-020	32	ACTUATOR-RETRACTION
89	2100-1228-02	23	SSCVR-SOLID STATE COCKPIT VOICE RECORDER	549	215TS07Y00	32	LEVER-CONTROL,LANDING GEAR
90	822-0987-003	23	COUPLER-HF ANTENNA	550	322200-8M00	32	TRANSMITTER UNIT-N,W STRG HANDWHEEL
91	822-0990-003	23	TRANSCEIVER-HF	551	35-1H5-1002	32	BTMU-BRAKE TEMPERATURE MONITORING UNIT
92	822-1287-120	23	TRANSCEIVER-VHF	552	64882-206-1	32	INDICATOR-BRK YELLOW PRESS TRIPLE
93	822-2023-401	23	SDU-SATELLITE DATA UNIT	553	664700500A4D	32	LGCIU-LANDING GEAR CONTROL INTERFACE UNIT
94	822-2763-020	23	TRANSCEIVER-VHF	554	762080-1	32	VALVE-SAFETY
95	8420B1-201	23	CONTROLLER ASSY-LCD	555	80-178-03-88013	32	LGCIU-LANDING GEAR CONTROL INTERFACE UNIT
96	8450B5	23	HINGE ASSY-CDSS	556	C20105000-2	32	TACHOMETER
97	89-01-07375	23	HANDSET ASSY-CABIN	557	C20229001	32	THERMOCOUPLE
98	93A055-66	23	MICROPHONE-COCKPIT VOICE RECORDER	558	C20374000-2	32	VALVE-SERVO,BRAKE
99	964-0452-012	23	TRANSCEIVER-HF	559	C24592000-1	32	CYLINDER-MASTER
100	964-0453-001	23	COUPLER-HF ANTENNA	560	C24703003	32	CONTROL VALVE-PARKING BRAKE ELECTRICAL
101	980-6022-001	23	SSCVR-SOLID STATE COCKPIT VOICE RECORDER	561	C24730001-6	32	UPLOCK ASSY-NLG
102	ACP2788AB05	23	ACP-AUDIO CONTROL PANEL	562	C24730100	32	UPLOCK ASSY-NLG DOOR
103	AMU4031SA130103	23	AMU-AUDIO MANAGEMENT UNIT	563	C24736100-1	32	SERVOCONTROL
104	AMU4031SA140204	23	AMU-AUDIO MANAGEMENT UNIT	564	C24837101-3	32	MANIFOLD-NORMAL BRAKE ASSY
105	C12848CA01	23	RMP-RADIO MANAGEMENT PANEL	565	C24837102	32	MANIFOLD-NORMAL BRAKE ASSY
106	C12848DB01	23	RMP-RADIO MANAGEMENT PANEL	566	C24993000	32	VALVE-SELECTOR,BRAKE

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107	N40-1B20215-102	23	HANDSET ASSY-CABIN	567	C24998000	32	VALVE-SWIVEL SELECTOR
108	ST3100-23-24	23	HANDSET ASSY-CABIN	568	D23076000-3	32	ACTUATOR-UNLOCKING
109	Z010H000521A	23	DIRECTOR-CIDS	569	D23119750-1	32	BOX-ELECTRICAL
110	Z014H000131A	23	DIRECTOR-CIDS	570	D23119751	32	BOX-ELECTRICAL
111	Z014H000333B	23	DIRECTOR-CIDS	571	D23613000	32	CYLINDER ASSY-ACTUATING,NLG
112	Z020H0001112	23	PTP-PROGRAMMING AND TEST PANEL	572	D24001000	32	VALVE-CONTROL,PARKING BRAKE ELECTRICAL
113	Z030H0005110	23	DEU-DECODER ENCODER UNIT A	573	D24005000	32	MANIFOLD-ALTERNATE BRAKE
114	Z033H0002110	23	DEU-DECODER ENCODER UNIT A	574	D24006000	32	MANIFOLD-ALTERNATE BRAKE
115	Z040H000820A	23	DEU-DECODER ENCODER UNIT B	575	E21326000-1	32	VALVE-SERVO, BRAKE
116	Z043H000351A	23	DEU-DECODER ENCODER UNIT B	576	E21327006	32	BSCU-BRAKING AND STEERING CONTROL UNIT
117	Z111H0033151	23	AIP-ATTENDANT INDICATION PANEL	577	E21328002	32	ABCU-ALTERNATE BRAKING CONTROL UNIT
118	Z111H0037131	23	AIP-ATTENDANT INDICATION PANEL	578	E21330000-1	32	VALVE
119	85-16-11494-05	23	MICROPHONE-HAND	579	E21336000	32	BOX-SENSOR
120	N40-1B20212-102	23	HANDSET ASSY-CABIN	580	AE84760Z	32	JOINT ASSY-SWIVEL
121	ST3100-33-10	23	HANDSET ASSY-COCKPIT	581	1058-34	32	TPIU-TYRE PRESSURE INDICATING UNIT
122	822-1047-030	23	TRANSCEIVER-VHF	582	114079016	32	SELECTOR-DOOR,ELECTRO-HYDRAULIC
123	8410B1-101-105	23	CAMERA-COCKPIT DOOR	583	114083003	32	VALVE-VENT
124	8410B2-4-90	23	CAMERA-COCKPIT DOOR	584	114086001	32	VALVE,CUT-OUT
125	93A150-20	23	MODULE-PREAMPLIFIER	585	201117021	32	UPLOCK-MLG
126	ACP2788AE01	23	ACP-AUDIO CONTROL PANEL	586	201117022	32	UPLOCK-MLG
127	AMU4031LA140204	23	AMU-AUDIO MANAGEMENT UNIT	587	201122008	32	UPLOCK-DOOR,MLG
128	AMU4031SA110101	23	AMU-AUDIO MANAGEMENT UNIT	588	22715-000-02	32	CYLINDER-ACTUATING,NLG DOOR
129	BC2065C	23	CONTROL BOX-SELCAL CODE	589	322200-7M00	32	TRANSMITTER UNIT-N,W STRG HANDWHEEL
130	BMA3603AA01	23	BOX-AUDIO JUNCTION	590	749198-2	32	RESERVOIR-HYDRAULIC
131	N40-1B10135-101	23	HANDSET ASSY-COCKPIT	591	A25312-1	32	VALVE-THROTTLE
132	Z014H000231B	23	DIRECTOR-CIDS	592	A25313002	32	VALVE-SELECTOR,BRAKE
133	Z033H0003112	23	DEU-DECODER ENCODER UNIT A	593	A25316-101	32	VALVE-DUAL SHUTTLE
134	M83P1801A	23	MICROPHONE-HAND	594	A25434006-3000	32	VALVE-DUAL DISTRIBUTION
135	N40-1B10100-101	23	HANDSET ASSY-COCKPIT	595	A25461-104	32	SELECTOR-AUTOMATIC
136	89-01-07390	23	HANDSET ASSY-COCKPIT	596	A68982	32	VALVE ASSY-SERVO
137	1700667D	24	GAPCU-GROUND AUXILIARY POWER	597	C20103500	32	VALVE-SERVO,BRAKE

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			CONTROL UNIT				
138	1706903	24	IDG-INTEGRATED DRIVE GENERATOR	598	C20215000	32	TRANSMITTER-BRAKE PEDAL
139	35-0L5-1005-08	24	BCL-BATTERY CHARGE LIMITER	599	C24736001-2	32	SERVOCONTROL
140	5913667-4	24	GENERATOR-APU	600	C24839010-2	32	MANIFOLD-ALTERNATE BRAKE
141	740119H	24	IDG-INTEGRATED DRIVE GENERATOR	601	C24840010-2	32	MANIFOLD-ALTERNATE BRAKE
142	740120C	24	GCU-GENERATOR CONTROL UNIT	602	C25243002-2	32	VALVE-SAFETY
143	740121B	24	GPCU-GROUND POWER CONTROL UNIT	603	E21324000-1	32	TRANSMITTER-BRAKE,PEDAL
144	767584J	24	GCU-GENERATOR CONTROL UNIT	604	E21326000-2	32	VALVE-SERVO,BRAKE
145	Y005-2	24	TR-TRANSFORMER RECTIFIER	605	A25315-1	32	VALVE-PARKING BRAKE
146	Y005-3	24	TR-TRANSFORMER RECTIFIER	606	114079018	32	SELECTOR-DOOR,ELECTRO-HYDRAULIC
147	Y192	24	TR-TRANSFORMER RECTIFIER	607	114079019	32	SELECTOR-GEAR,ELECTRO-HYDRAULIC
148	206PN01	24	VOLTMETER-DC	608	1338-1430	32	ROTATING MECH-TPIS,NLG
149	252CA01C1-02Y1	24	CONTACTOR-THREE POLE	609	1338-1450	32	TRANSDUCER-PRESSURE
150	520913	24	CSMG-CONSTANT SPEED MOTOR GENERATOR	610	4133801011	32	ROTATING MECH-TPIS,MLG
151	521100	24	GCU-GENERATOR CONTROL UNIT,CSMG	611	4133801030	32	TRANSDUCER-PRESSURE
152	5906734	24	TRANSFORMER-CURRENT	612	AE1502U02	32	MOTOR ASSY-BRAKE FAN
153	740123A	24	ADAPTER-QAD	613	C24737002-2	32	MANIFOLD
154	746923E	24	EGIU-ELECTRICAL GENERATION INTERFACE UNIT	614	C24737002-4	32	MANIFOLD
155	4188-00	24	INVERTER-STATIC	615	E21350000	32	TACHOMETER-DRIVE ASSY,MLG
156	503CA04F2-02Y00	24	CONTACTOR-DOUBLE THREE POLE	616	RU1502U01	32	FAN-WHEEL BRAKE
157	558CA04A30Y00	24	CONTACTOR-THREE POLE	617	10-375201-000	32	ABSORBER-SHOCK
158	564CA04A10Y00	24	CONTACTOR-THREE POLE (NP)	618	10-375401-000	32	HARNESS-2M UPPER ELECTRICAL
159	564CA04A21Y00	24	CONTACTOR-THREE POLE	619	10-376301-000	32	HARNESS-1M UPPER ELECTRICAL
160	564CA04F10Y00	24	CONTACTOR-THREE POLE (NP)	620	114080003	32	BLOCK-MANIFOLD
161	630CC04A2Y00	24	CONTACTOR-SINGLE POLE	621	201059001	32	SPRING-LOCK
162	640CC04A2Y00	24	CONTACTOR-SINGLE POLE	622	201399007	32	HARNESS-ENHANCED,1M
163	TA01Z6005	24	AUTOTRANSFORMER	623	201399008	32	HARNESS-ENHANCED,1M
164	772896	24	ADAPTER-QAD	624	201400005	32	HARNESS-ENHANCED,2M
165	16800-01-00	25	SEAT-3RD OCCUPANT	625	201400006	32	HARNESS-ENHANCED, 2M
166	60592-201	25	RESERVOIR ASSY	626	201401005	32	HARNESS-AXLE,ELECTRICAL,1M,ENHANCED
167	AR4753-7	25	BOLTING SYSTEM-DOOR,COCKPIT	627	201401006	32	HARNESS-AXLE,ELECTRICAL,2M,ENHANCED
168	D31516-717	25	SLIDE-DOOR,FWD	628	A68982-004	32	VALVE ASSY-SERVO

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169	D31517-717	25	SLIDE-DOOR,AFT	629	D23116000	32	VALVE ANTI SHIMMY
170	D31865-111	25	SLIDE-OVERWING	630	D23278100	32	FITTING ASSY-TOWING
171	D31865-112	25	SLIDE-OVERWING	631	D23355020	32	SLEEVE ASSY-AXLE PROTECTIVE
172	S1819502-02	25	ELT-EMERGENCY LOCATOR TRANSMITTER	632	D23592000-3	32	ABSORBER-SHOCK
173	TAAI3-03CE00-01	25	SEAT-FIRST OFFICER	633	D23592020	32	ABSORBER-SHOCK
174	TAAI3-03PE00-01	25	SEAT-CAPTAIN	634	D23592020-2	32	ABSORBER-SHOCK
175	374-9	25	CHILLER-AIR	635	D23627000	32	HARNESS-1M UPPER
176	1151324-1	25	ELT-EMERGENCY LOCATOR TRANSMITTER	636	D23627000-1	32	HARNESS-ELECTRICAL,1M UPR.
177	1152682-3	25	ELT-EMERGENCY LOCATOR TRANSMITTER	637	D23628000	32	HARNESS-2M UPPER
178	D30664-709	25	RAFT-SLIDE,FWD	638	D23628000-2	32	HARNESS,2M UPPER ELECTRICAL
179	D30665-709	25	RAFT-SLIDE,AFT	639	D23629000	32	HARNESS-ELECTRICAL,INTERMEDIATE
180	S1821502-02	25	ELT-EMERGENCY LOCATOR TRANSMITTER	640	D23630020	32	HARNESS LOWER
181	1-002-0102-1830	25	INVERTER-STATIC	641	D24157000	32	VALVE-SELECT,MANIFOLD ASSY
182	2510154-01-00	25	SEAT-4TH OCCUPANT	642	2LA005308-05	33	LIGHT-ANTICOLLISION,WING STROBE
183	AR4715-1	25	LATCH ASSY	643	2LA403702-01	33	LIGHT-NAVIGATION,REAR DUAL
184	S1823502-05	25	ELT-EMERGENCY LOCATOR TRANSMITTER	644	3214-31	33	BATTERY
185	2624-82	25	ANTENNA-ELT	645	3214-54-20	33	EPSU-EMERGENCY POWER SUPPLY UNIT
186	2632-82	25	ANTENNA-ELT	646	3214-62-10	33	EPSU-EMERGENCY POWER SUPPLY UNIT
187	H3001-9	25	LATCH ASSY	647	3250-80	33	BALLAST UNIT
188	276-2	25	CHILLER-AIR	648	4197-20-04	33	BALLAST UNIT-ADVANCED INTEGRATED
189	1153426-1M463	25	ELT-EMERGENCY LOCATOR TRANSMITTER	649	4233488	33	LIGHT-TAKE OFF
190	AR4754-7	25	LATCH ASSY-DOOR,CENTER	650	4315542	33	LIGHT-LANDING
191	2510154-03-00	25	SEAT-4TH OCCUPANT	651	727-1213-02	33	LIGHT-LANDING
192	2846T100-1	25	ACTUATOR	652	528-70	33	LIGHT-NAVIGATION,FORWARD DUAL
193	48-2-2401	25	JOYSTICK	653	528-80	33	LIGHT-NAVIGATION,FORWARD DUAL
194	72184101	25	HEATER-WATER	654	5XA005033-00	33	CONTROLLER-LIGHTING
195	1152780-1	25	MODULE-IDENTIFICATION,AIRCRAFT	655	8ES005309-00	33	PSU-POWER SUPPLY UNIT,WING STROBE
196	1153008-1	25	PANEL-REMOTE CONTROL	656	8ES403703-02	33	TRANSFORMER-REAR NAVIGATION LIGHT,DUAL
197	21435-00	25	BEACON-ACOUSTIC UNDERWATER LOCATOR	657	8ES455012-00	33	PSU-POWER SUPPLY UNIT,BEACON
198	3720-00-00	26	FDU-FIRE DETECTION UNIT	658	1X2005097-00	33	LIGHT-LOGO

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199	CGDU2000-00	26	DETECTOR-SMOKE	659	2LA005303-05	33	LIGHT-STROBE
200	PPA1102-00	26	DETECTOR-SMOKE	660	2LA005542-50	33	FLOODLIGHT UNIT-CENTER
201	PPA1202-00	26	DETECTOR-SMOKE	661	30-1883-5	33	LIGHT-WING AND ENGINE
202	PPC1100-00	26	DETECTOR-SMOKE	662	30-1883-6	33	LIGHT-WING AND ENGINE
203	PPC1200-00	26	DETECTOR-SMOKE	663	3250-30	33	BALLAST UNIT
204	RAI2800M0706	26	SDCU-SMOKE DETECTOR CONTROL UNIT	664	35-0F5-1000	33	BOARD-ANNUNCIATOR LIGHT TEST
205	335TS08Y00	26	FIRE PANEL-ENGINE APU	665	4236534	33	LIGHT-RUNWAY TURNOFF
206	330VZ01Y02	26	SWITCH	666	4236564	33	LIGHT-TAXI
207	334VZ01Y00	26	SWITCH	667	1X2005012-00	33	LIGHT-LOADING AREA,CARGO
208	4550-01	26	DETECTOR ASSY-OVERHEAT,APU	668	5XA005032-01	33	CONTROLLER-LIGHTING
209	065-50001-0200	27	CSU-COMMAND SENSOR UNIT	669	5XA455805-01	33	CONTROLLER-LIGHTING
210	115370-1318	27	FCDC-FLIGHT CONTROL DATA CONCENTRATOR	670	5XA455806-00	33	CONTROLLER-LIGHTING
211	115370-1519	27	FCDC-FLIGHT CONTROL DATA CONCENTRATOR	671	2598D	33	TRANSFORMER-LIGHTING
212	200301E00000308	27	SFCC-SLAT AND FLAP CONTROL COMPUTER	672	2LA005127-01	33	LIGHT-EMERGENCY,OVERWING
213	200301E00000309	27	SFCC-SLAT AND FLAP CONTROL COMPUTER	673	2LA005413-01	33	LIGHT-EMERGENCY,OVERWING
214	31073-110	27	SERVOCONTROL-AILERON	674	2LA005414-01	33	LIGHT-EMERGENCY,OVERWING
215	31075-840	27	SERVOCONTROL-ELEVATOR	675	2LA005541-10	33	FLOODLIGHT UNIT-CAPTAIN
216	31077-211	27	SERVOCONTROL-SPOILER,INBOARD	676	2LA005543-10	33	FLOODLIGHT UNIT-FIRST OFFICER
217	321000M03	27	SSTU-SIDE STICK TRANSDUCER UNIT	677	2LA455010-00	33	LIGHT-ANTICOLLISION,BEACON
218	3945128218	27	ELAC-ELEVATOR AILERON COMPUTER	678	35-53	33	LIGHT-DOME
219	3945129100	27	ELAC	679	9BG408324-00	33	CONTROL UNIT-CHART HOLDER
220	46012	27	MOTOR-HYDRAULIC	680	9BG408324-80	33	CONTROL UNIT-CHART HOLDER
221	47145-147	27	ACTUATOR-THS	681	F1001940-00	33	LIGHT-LOADING AREA,CARGO
222	47145-233	27	ACTUATOR-THS	682	2LA455968-01	33	LIGHT-ANTICOLLISION,BEACON
223	47145-247	27	ACTUATOR-THS	683	2LA456241-00	33	LIGHT ASSY-NAV AND STROBE,REAR
224	47145-267	27	ACTUATOR-THS	684	2LA456342-01	33	LIGHT-LOGO
225	47145-268	27	ACTUATOR-THS	685	2LA456342-02	33	LIGHT-LOGO
226	49-170-11	27	SFCC-SLAT AND FLAP CONTROL COMPUTER	686	2LA456509-01	33	LIGHT-ANTICOLLISION,WING STROBE
227	6137-5	27	ACTUATOR-RUDDER TRIM	687	2LA456510-01	33	LIGHT-ANTICOLLISION,WING STROBE
228	780B0000-01	27	CSU-COMMAND SENSOR UNIT	688	4260-10-02	33	LIGHT-CARGO COMPARTMENT
229	786A0000-12	27	CONTROL UNIT-POWER (NP)	689	727-1154-02	33	LIGHT ASSY-NAVIGATION,GREEN
230	787A0000-08	27	BLOCK-VALVE	690	727-1155-02	33	LIGHT ASSY-NAVIGATION,RED
231	787A0000-11	27	BLOCK-VALVE	691	727-1313-02	33	LIGHT-MAIN INSTRUMENT PANEL

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232	810A0000-05	27	SERVOCONTROL-RUDDER	692	727-1314-02	33	FLOODLIGHT UNIT-CAPTAIN
233	810D0000-01	27	SERVOCONTROL-RUDDER	693	727-1315-02	33	FLOODLIGHT UNIT-FIRST OFFICER
234	B372BAM0515	27	SEC-SPOILER ELEVATOR COMPUTER	694	727-1320-02	33	CONTROLLER-LIGHTING
235	B372BBM0104	27	SEC-SPOILER ELEVATOR COMPUTER	695	727-1321-02	33	CONTROLLER-LIGHTING
236	B372CAM0100	27	SEC-SPOILER ELEVATOR COMPUTER	696	727-1329-02	33	LIGHT-CTL BOX-MAP TABLE LT
237	DV8456701-5	27	TLU-TRAVEL LIMITATION UNIT	697	8ES455967-01	33	PSU-POWER SUPPLY UNIT,BEACON
238	FE412000106	27	SSU-SIDE STICK UNIT FOR CAPTAIN	698	8ES456222-01	33	PSU-POWER SUPPLY UNIT
239	FE412000107	27	SSU-SIDE STICK UNIT FOR FIRST OFFICER	699	8ES456513-01	33	PSU-POWER SUPPLY UNIT,WING STROBE
240	SC4700-5	27	SERVOACTUATOR-YAW DAMPER	700	Z316H0000110	33	STELLA-STAIR ELECTRICAL LOAD ADAPTER
241	A88004	27	SERVOVALVE	701	4197-10-01	33	BALLAST UNIT-ADVANCED INTEGRATED
242	1106A0000-01	27	VALVE-SOLENOID	702	8ES005304-00	33	PSU-POWER SUPPLY UNIT
243	2000A1391K01	27	MOTOR-HYDRAULIC	703	066-50007-0432	34	TRANSCEIVER-RADIO ALTIMETER
244	321200M02	27	TRANSDUCER UNIT-SPEED BRAKE CONTROL	704	066-50012-0212	34	RECEIVER-VOR,MKR
245	322000M02	27	TRANSDUCER UNIT	705	066-50013-0202	34	INTERROGATOR-DME
246	342300M01	27	TRANSDUCER UNIT	706	066-50014-0202	34	RECEIVER-ADF
247	42049	27	MOTOR-HYDRAULIC	707	066-50029-1161	34	MMR-MULTI MODE RECEIVER
248	47145-133	27	ACTUATOR-THS	708	0851HL	34	PROBE-PITOT
249	47145-167	27	ACTUATOR-THS	709	622-5001-503	34	DDRMI-DIGITAL DISTANCE RADIO MAGNETIC INDICATOR
250	521A0200-01	27	ADAPTOR ASSY-PPU	710	622-5001-504	34	DDRMI-DIGITAL DISTANCE RADIO MAGNETIC INDICATOR
251	5751A0000-01	27	VALVE-SOLENOID	711	622-5130-021	34	CONTROL UNIT-WEATHER RADAR
252	73195	27	SERVOVALVE	712	622-5130-820	34	CONTROL UNIT-WEATHER RADAR
253	7319605	27	SERVOVALVE-ELEVATOR	713	622-5132-622	34	TRANSCEIVER-WEATHER RADAR
254	786A2000-01	27	BRAKE-PRESSURE OFF GEARBOX ASSY-RIGHT ANGLE	714	622-5136-201	34	DRIVE-WEATHER RADAR ANTENNA
255	788A0000-02	27	GEARBOX-19 DEGREE	715	622-5136-801	34	DRIVE-WEATHER RADAR ANTENNA
256	789A0000-02	27	GEARBOX-19 DEGREE	716	822-0297-020	34	RECEIVER-VOR,MKR
257	790A0000-02	27	GEARBOX-19 DEGREE	717	822-1152-122	34	MMR-MULTI MODE RECEIVER
258	791C0000-01	27	ACTUATOR-FLAP	718	822-1293-332	34	COMPUTER-TCAS
259	792D0000-01	27	ACTUATOR-FLAP	719	822-1710-203	34	TRANSCEIVER-WEATHER RADAR
260	793C0000-01	27	ACTUATOR-FLAP	720	9000000-11414	34	COMPUTER-T2CAS
261	794C0000-01	27	ACTUATOR-FLAP	721	930-2000-001	34	RECEIVER-TRANSMITTER,TR-1
262	801A3100-01	27	JOINT ASSY-UNIVERSAL	722	940-0351-005	34	COMPUTER-TCAS
263	801A3300-01	27	JOINT ASSY-UNIVERSAL	723	9599-607-14942	34	TRANSCEIVER-RADIO ALTIMETER

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264	801A3400-01	27	JOINT ASSY-UNIVERSAL	724	965-1676-001	34	GPWC-GROUND PROXIMITY WARNING COMPUTER
265	801A3500-01	27	JOINT ASSY-PLUNGING	725	965-1676-002	34	GPWC-GROUND PROXIMITY WARNING COMPUTER
266	801B1700-01	27	BEARING ASSY-STEADY	726	C12404AB02	34	CONTROL UNIT-ATC,TCAS
267	801B4500-01	27	JOINT ASSY-UNIVERSAL	727	C16221WB01	34	INDICATOR-ISIS
268	827A0000-02	27	GEARBOX-T	728	C16291AB	34	SENSOR-ANGLE OF ATTACK
269	828A0000-02	27	GEARBOX ASSY-BEVEL,63.5 DEGREE	729	CG1151AC03	34	CDU-CONTROL DISPLAY UNIT
270	829C0000-01	27	ACTUATOR-ROTARY	730	HG2030AE22	34	ADIRU-AIR DATA AND INERTIAL REFERENCE UNIT
271	830C0000-01	27	ACTUATOR-ROTARY,SLAT	731	HG2030AE23	34	ADIRU-AIR DATA AND INERTIAL REFERENCE UNIT
272	831B0000-01	27	BRAKE-WING TIP	732	PG1152BC02	34	ADM-AIR DATA MODULE
273	833C2300-02	27	BEARING ASSY-STEADY	733	TLS755-01-0102A	34	MMR-MULTI MODE RECEIVER
274	9028A0004-01	27	PPU-POSITION PICK-OFF UNIT	734	0861ED	34	SENSOR-ANGLE OF ATTACK
275	9231-4-600	27	MODULE-ELECTRONIC	735	9599-607-12352	34	ANTENNA-RADIO ALTIMETER
276	A61545-001	27	SERVOVALVE	736	0102LM2GE	34	SENSOR-TAT
277	A88004-005	27	SERVOVALVE	737	622-5134-064	34	MOUNTING TRAY-WR XCVR
278	FE171-000	27	REGULATOR-CABLE TENSION	738	622-8701-003	34	ANTENNA-RADIO ALTIMETER
279	440EP01	27	SOLENOID-SIDE STICK	739	7517800-10100	34	TRANSPONDER-ATC
280	450-2-3100-00	27	SWITCH-PRESSURE	740	822-0329-020	34	INTERROGATOR-DME
281	450EP01Y01	27	SOLENOID-ART FEEL,RUDDER	741	822-0334-020	34	TRANSCEIVER-RADIO ALTIMETER
282	801A0200-01	27	SHAFT ASSY-PLUNGING JOINT	742	930-1005-001	34	PROCESSOR-RADAR,RP-1
283	801A0300-01	27	SHAFT ASSY-PLUNGING JOINT	743	930-3001-001	34	DRIVE-WEATHER RADAR ANTENNA
284	801A0800-01	27	SHAFT ASSY-FLAP DRIVE	744	930-6201-001	34	CONTROL UNIT-WEATHER RADAR
285	801A1500-01	27	SHAFT ASSY-FLAP DRIVE	745	C12402AA02	34	CONTROL UNIT-ATC,TCAS
286	801B0500-01	27	SHAFT ASSY-DRIVE	746	HG2030BE03	34	ADIRU-AIR DATA AND INERTIAL REFERENCE UNIT
287	801B0600-01	27	SHAFT ASSY-FLAP DRIVE	747	PGA0105W	34	COMPASS-STANDBY
288	801B0700-01	27	SHAFT ASSY-FLAP DRIVE	748	071-50026-0300	34	ANTENNA-RADIO ALTIMETER
289	801B1200-01	27	SHAFT ASSY-FLAP DRIVE	749	622-5137-601	34	ANTENNA-WEATHER RADAR
290	801B1300-01	27	SHAFT ASSY-FLAP DRIVE	750	066-01212-0101	34	TRANSPONDER-ATC
291	801B1600-01	27	SHAFT ASSY-FLAP DRIVE	751	622-5130-830	34	CONTROL UNIT-WEATHER RADAR
292	801B4400-01	27	SHAFT ASSY-FLAP DRIVE	752	622-5135-821	34	DRIVE-WEATHER RADAR ANTENNA
293	801B4600-02	27	SHAFT ASSY-FLAP DRIVE	753	63543-253-4	34	DDRMI-DIGITAL DISTANCE RADIO MAGNETIC INDICATOR
294	801B4700-01	27	SHAFT ASSY-DRIVE	754	822-1710-411	34	TRANSCEIVER-WEATHER RADAR
295	801B4800-01	27	SHAFT ASSY-DRIVE	755	822-1821-430	34	MMR-MULTI MODE RECEIVER
296	801C1400-01	27	SHAFT ASSY-FLAP DRIVE	756	9005000-11203	34	COMPUTER-T3CAS

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297	833A0700-01	27	SHAFT ASSY-SLAT DRIVE	757	9008000-10100	34	TRANSPONDER-ATC
298	833A1400-01	27	SHAFT ASSY-SLAT DRIVE	758	930-4301-001	34	ANTENNA-WEATHER RADAR
299	833A1500-01	27	SHAFT ASSY-SLAT DRIVE	759	0102ME2GE	34	SENSOR-TAT
300	833A1600-01	27	SHAFT ASSY-SLAT DRIVE	760	102EH2EB	34	SENSOR-TAT
301	833A1700-01	27	SHAFT ASSY-SLAT DRIVE	761	615-2630-102	34	ANTENNA-ADF
302	833A1800-01	27	SHAFT ASSY-SLAT DRIVE	762	822-1338-225	34	TRANSPONDER-ATC
303	833A1900-01	27	SHAFT ASSY-SLAT DRIVE	763	DVE90-06	35	VALVE-SOLENOID
304	833A2000-01	27	SHAFT ASSY-SLAT DRIVE	764	MF10-05-11	35	MASK-FULL FACE QUICK DONNING
305	833A2100-01	27	SHAFT ASSY-SLAT DRIVE	765	MF20-534	35	MASK-FULL FACE QUICK DONNING
306	833A2400-02	27	SHAFT ASSY-APPU	766	MXP801-11	35	STOWAGE BOX-OXY MASK
307	833A2800-01	27	SHAFT-ASSY,CONNECTION	767	RCF6708	35	REGULATOR TRANSMITTER-PRESSURE
308	833B0100-01	27	SHAFT ASSY-SLAT DRIVE	768	MXP801	35	STOWAGE BOX-OXY MASK
309	833B0400-01	27	SHAFT ASSY-SLAT DRIVE	769	DPE110	35	PORT-TEST
310	833B0500-01	27	SHAFT ASSY-SLAT DRIVE	770	11-851154-6	36	EXCHANGER-PRECOOLER
311	833B0800-01	27	SHAFT ASSY-SLAT DRIVE	771	341E030000	36	THERMOSTAT-SOLENOID
312	833B1000-01	27	SHAFT ASSY-SLAT DRIVE	772	341F010000	36	THERMOSTAT-SOLENOID
313	833B1100-01	27	SHAFT ASSY-SLAT DRIVE	773	342B050000	36	THERMOSTAT-CONTROL
314	833B2200-01	27	SHAFT ASSY-SLAT DRIVE	774	6730C010000	36	VALVE-FAN AIR
315	833C0900-01	27	SHAFT ASSY-SLAT DRIVE	775	6740E010000	36	VALVE-OVERPRESSURE
316	833C1200-01	27	SHAFT ASSY-SLAT DRIVE	776	6740G010000	36	VALVE-OVERPRESSURE
317	833C1300-01	27	SHAFT ASSY-SLAT DRIVE	777	6773E010000	36	VALVE-HP BLEED
318	786A2000-02	27	BRAKE-PRESSURE OFF	778	6774E010000	36	VALVE-BLEED PRESSURE REGULATING
319	801B3500-01	27	JOINT ASSY-PLUNGING	779	6774G010000	36	VALVE-BLEED PRESSURE REGULATING
320	422082-400	27	ACTUATOR-PITCH TRIM	780	785-002-7	36	BMC-BLEED MONITORING COMPUTER
321	786A2000-03	27	BRAKE-PRESSURE OFF	781	785-002-8	36	BMC-BLEED MONITORING COMPUTER
322	0212KTU09	28	PROBE-FQIS,NO 9 AND 10	782	2293B020000	36	VALVE-CHECK
323	1407KID02-03	28	INDICATOR-FUEL QUANTITY	783	4063-16082-3	36	VALVE ASSY-ISOLATION
324	30042-0000-0501	28	CONTROL UNIT-LEVEL,SENSING	784	FRH220034V	36	VALVE ASSY-NONRETURN
325	30320-0202	28	COMPUTER-FUEL QUANTITY INDICATION SYSTEM	785	HTE370001	36	CONNECTOR-HP GROUND
326	30320-0203	28	COMPUTER-FUEL QUANTITY INDICATION SYSTEM	786	733901-1-2	36	BMC-BLEED MONITORING COMPUTER
327	568-1-27202-05R	28	PUMP-FUEL	787	986F12-1	36	VALVE-CHECK
328	796-809-6A	28	CADENSICON	788	L96H15-501	36	VALVE-CHECK
329	796815-02-03	28	PRESELECTOR	789	ZRA380-00	36	TRANSDUCER-PRESSURE
330	C12CB0012	28	PUMP-FUEL	790	733901-1-1	36	BMC-BLEED MONITORING COMPUTER

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331	FRH280002	28	VALVE-AIR RELEASE	791	6610-15946-2	36	ACTUATOR-ROTARY
332	HTE190001-2	28	ACTUATOR-TWIN MOTOR	792	FRH220015V	36	VALVE ASSY-NONRETURN
333	HTE200002-1	28	ACTUATOR-VALVE,SINGLE MOTOR	793	14330-004B1	38	TOILET ASSY
334	HTE490012	28	VALVE-NON RETURN	794	14330-004B2	38	TOILET ASSY
335	HTE900087	28	VALVE-TRANSFER,INTERCELL	795	14330-350	38	GENERATOR-VACUUM
336	HTE900088	28	VALVE-TRANSFER,INTERCELL	796	14403-003C	38	TRANSMITTER-LEVEL,LIQUID
337	HTE900118	28	VALVE-PRESSURE,LOW	797	14404-010	38	CONTROLLER-VACUUM SYSTEM
338	HTE900118-001	28	VALVE-LOW PRESSURE,FUEL	798	2980332100100	38	FAUCET ASSY-WATER
339	HTE900189	28	VALVE-CONTROL,FUEL	799	D05000	38	VALVE-FILL AND DRAIN
340	L83A13-610	28	VALVE-WATER DRAIN	800	D05A00	38	VALVE-FILL AND DRAIN
341	L95F100-603	28	PROTECTOR-OVERPRESSURE	801	FRH340003H	38	VALVE-DRAIN
342	L95F50-603	28	PROTECTOR-OVERPRESSURE	802	ZCV241-1	38	VALVE-DRAIN
343	SIC5059-13-10	28	COMPUTER-FUEL QUANTITY INDICATING SYSTEM	803	14403-001	38	TANK ASSY-WASTE,HOLDING
344	SIC5059-14-31	28	COMPUTER-FUEL QUANTITY INDICATING SYSTEM	804	10101000CK	38	VALVE ASSY-DRAIN
345	0725185	28	COUPLING-REFUEL	805	14403-125	38	SENSOR-LEVEL,LIQUID
346	0212KTU01	28	PROBE-FQIS,NO 1	806	24E507009G03	38	HEATER-WATER,LAVATORY
347	0212KTU03	28	PROBE-FQIS,NO 3	807	2980332100000	38	FAUCET ASSY-WATER
348	0212KTU04	28	PROBE-FUEL QUANTITY,NO 4	808	7800258	38	DRAIN ASSY
349	0212KTU05	28	PROBE-FQIS,NO 5	809	7800259	38	DRAIN ASSY
350	0212KTU06	28	PROBE-FQIS,NO 6	810	972C10-1	38	VALVE-SHUTTLE
351	0212KTU07	28	PROBE-FQIS,NO 7	811	14401-060	38	SEPARATOR ASSY-WATER
352	0212KTU08	28	PROBE-FQIS,NO 8	812	14403-130	38	TANK ASSY-WASTE,HOLDING
353	0212KTU10	28	PROBE-FQIS	813	FRH230003C	38	VALVE-PRESSURE REDUCING
354	0212KTU11	28	PROBE-FQIS	814	VT442-2	38	INDICATOR-QUANTITY,WATER
355	0212KTU13	28	PROBE-FQIS	815	14320-030	38	VALVE-DRAIN
356	0212KTU14	28	PROBE-FQIS	816	14320-040	38	VALVE-CHECK
357	0212KTU15	28	PROBE-FUEL QUANTITY,NO 5	817	9632500-7001	38	ACTUATION UNIT
358	0212KTU16	28	PROBE-FUEL QUANTITY,NO 2	818	9632500-8001	38	CONTROL ASSY-CABLE
359	0212KTU17	28	PROBE-FUEL QUANTITY,NO 13	819	14330-004C4	38	TOILET ASSY
360	1158000-15	28	CANISTER-VALVE,REFUEL	820	HTE400179	38	VALVE-NONRETURN
361	1158000-45	28	VALVE-REFUEL	821	2980372100000	38	FAUCET ASSY-WATER
362	20700-300	28	VALVE-APU FUEL	822	9811795	38	VALVE-CHECK
363	568-1-27203-002	28	CANISTER-PUMP,FUEL	823	HTE4918	38	VALVE-NON RETURN
364	568-1-27244-002	28	CANISTER-PUMP,FUEL	824	VT061-71B	38	TRANSMITTER-CONTENTS,WATER TANK
365	9508175	28	VALVE-FLOAT,VENT	825	8378M12	38	COMPRESSOR-AIR

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366	9811820	28	VALVE-NON RETURN	826	LA2T0G20503B050	46	ATSU-AIR TRAFFIC SERVICES UNIT
367	9811839	28	VALVE-NON RETURN	827	LA2T0G20705C070	46	ATSU-AIR TRAFFIC SERVICES UNIT
368	9815715	28	VALVE-PRESSURE RELIEF	828	LA2T0G21006CA10	46	ATSU-AIR TRAFFIC SERVICES UNIT
369	A08000	28	ACTUATOR ASSY	829	401MFD3-2	46	DCDU-DATALINK CONTROL AND DISPLAY UNIT
370	C49AA0222	28	CANISTER-PUMP	830	2070066-102	47	PALLET-IGGS
371	C93R38-606	28	CANISTER-PUMP,FUEL	831	367-359-004	47	ICU-IGGS CONTROLLER UNIT
372	FRH050001-1	28	HOUSING-INDICATOR,MAGNETIC LEVEL	832	2040029-104	47	VALVE DUAL-FLOW,SHUTOFF
373	FRH050001-2	28	HOUSING-INDICATOR,MAGNETIC LEVEL	833	2040031-102	47	VALVE ASSY-GATE
374	FRH050002	28	HOUSING-INDICATOR,MAGNETIC LEVEL	834	106-1-1100-02	49	ACTUATOR
375	FRH050003	28	HOUSING-INDICATOR,MAGNETIC LEVEL	835	160494-1	49	COOLER-OIL
376	FRH050004	28	HOUSING-INDICATOR,MAGNETIC LEVEL	836	2704506-2	49	MOTOR-STARTER
377	FRH050005	28	HOUSING-INDICATOR,MAGNETIC LEVEL	837	2704506-4	49	MOTOR-STARTER
378	FRH050006	28	HOUSING-INDICATOR,MAGNETIC LEVEL	838	3886188-3	49	ACTUATOR-IGV
379	HTE420044	28	VALVE-PRESSURE HOLDING	839	3888058-5	49	EXCITER-IGNITION
380	HTE69000-1	28	SWITCH-PRESSURE	840	3888394-221204	49	ECB-ELECTRONIC CONTROL BOX
381	HTE900133	28	VALVE-ACTUATED,FUEL	841	4100837G	49	VALVE ASSY-BLEED CONTROL
382	HTE900135	28	VALVE-ACTUATED,FUEL	842	4101099H	49	FAN ASSY-COOLING
383	L83A13-614	28	VALVE-DRAIN,WATER	843	441921-5	49	FCU-FUEL CONTROL UNIT
384	L83A13-615	28	VALVE-DRAIN,WATER	844	4500003J	49	ECB-ELECTRONIC CONTROL BOX
385	L83A13-617	28	MONITOR-LEAK	845	4500003M	49	ECB-ELECTRONIC CONTROL BOX
386	SIC5059-14-20	28	COMPUTER-FUEL QUANTITY INDICATING SYSTEM	846	4500039F	49	PUMP ASSY-FUEL CONTROL
387	4127360	28	VALVE-VENT AND DRAIN	847	4504086	49	ACTUATOR ASSY-IGV
388	457-825	28	CAP-OVERWING,REFUEL COUPLING	848	4950000	49	EXCITER
389	FRH100013A	28	SWITCH-PRESSURE	849	4951652	49	COOLER-OIL
390	HTE900087-001	28	VALVE-TRANSFER, INTERCELL	850	4952164	49	MOTOR-STARTER
391	HTE900095	28	SHAFT-DRIVE,TRANSFER VALVE	851	4501259B	49	DIVIDER ASSY-FLOW
392	HTE900096	28	SHAFT-DRIVE,TRANSFER VALVE	852	4510835	49	ACTUATOR ASSY-IGV
393	10170-0202	28	INDICATOR-FUEL,MULTITANK	853	94830-10	49	ISOLATOR ASSY-APU,FWD
394	10173-0202	28	PRESELECTOR	854	655CC04A0Y00	49	CONTACTOR-SINGLE POLE (NP)
395	20145-0102	28	PROBE-FQIS	855	3291432-2	49	VALVE-LOAD CONTROL

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396	20146-0101	28	PROBE-FQIS	856	3291238-2	49	VALVE-SURGE CONTROL
397	20146-0103	28	PROBE-FQIS	857	3876132-13	49	LEAD ASSY-IGNITION
398	20146-0104	28	PROBE-FQIS,NO 9 AND 10	858	3876287-1	49	MODULE-DATA MEMORY
399	20146-0105	28	PROBE-FQIS,NO 8	859	692546-4	49	VALVE-SOLENOID
400	20146-0106	28	PROBE-FQIS,NO 7	860	1567A0000-01	52	VALVE-MANUAL SELECTOR
401	20146-0107	28	PROBE-FQIS,NO 4	861	AR4714-203	52	STRIKE ASSY-ELECTRICALLY OPERATED
402	20146-0108	28	PROBE-FQIS,NO 6	862	AR4714-7	52	STRIKE ASSY-ELECTRICALLY OPERATED
403	20146-0109	28	PROBE-FQIS,NO 3	863	E20000	52	ACTUATOR-HYDRAULIC
404	20146-0110	28	PROBE-FQIS,NO 5	864	FE240-004	52	CYLINDER-DOOR DAMPER
405	20146-0111	28	PROBE-FQIS	865	FE240-005	52	CYLINDER-DOOR DAMPER
406	20147-0101	28	PROBE-FQIS,NO 1	866	H3146-27	52	HANDLE ASSY-EMERGENCY EXIT
407	20147-0102	28	PROBE-FQIS	867	S4-3402180	52	VALVE-ELECTRO MANUAL SELECTOR
408	20147-0103	28	PROBE-FQIS	868	1266-100	52	SWITCH-DIFFERENTIAL PRESSURE
409	20150-0101	28	COMPENSATOR-ULTRA	869	2LA005469-00	52	PANEL-WARNING LIGHT
410	20400-0101	28	PROBE-FQIS	870	2LA005469-01	52	PANEL-WARNING LIGHT
411	3901395	28	PUMP JET-SCAVENGE	871	2LA007307-00	52	PANEL-WARNING LIGHT
412	3901515	28	PUMP-JET	872	AR4709-11	52	CDLCU-COCKPIT DOOR LOCKING CONTROL UNIT
413	HTE310021-1	28	VALVE-AIR INLET	873	AR4709-3	52	CDLCU-COCKPIT DOOR LOCKING CONTROL UNIT
414	HTE310028	28	VALVE ASSY-DRAIN,FUEL	874	AR4710-1	52	PAD-KEY
415	1554A9900-01	29	MANIFOLD-HP	875	AR4754-1	52	LATCH ASSY-DOOR,CENTER
416	1555B9900-01	29	MANIFOLD-PTU,HP	876	3957985114	73	EIU-ENGINE INTERFACE UNIT
417	1559A9900-03	29	MANIFOLD-HP	877	724400-2	73	FUEL PUMP
418	3022016-000	29	VALVE-BRAKE SYSTEM RELIEF	878	8061-535	73	HMU
419	4101002-11	29	TRANSFER UNIT-HYD POWER	879	642-4001-501	73	FUEL NOZZLE
420	887673	29	PUMP-HYDRAULIC	880	45731-1382	73	SERVO FUEL HEATER (SFH)
421	974540	29	PUMP-ELECTRIC	881	45731-1391	73	IDG OIL COOLER
422	B42CA2002	29	VALVE-NON RETURN	882	8910-332	73	FUEL RETURN VALVE
423	BHC1060-04	29	VALVE-PRIORITY	883	45D31-2	73	FUEL DELTA P SWITCH
424	C82LL0010	29	VALVE-DRAIN	884	910-00510	73	HPTCC THERMOCOUPLE PROBE
425	QA07739-02	29	RESERVOIR-PRESSURE UNIT	885	0154GL5	73	T12 SENSOR
426	SB209L1A1-1484	29	ACCUMULATOR-HYDRAULIC	886	85465-2	73	ROTOR ALTERNATOR
427	ZCV63-4	29	VALVE-CHECK	887	87006-9	73	STATOR ALTERNATOR
428	ZCV63-6	29	VALVE-CHECK	888	RP216-00	73	T25 SENSOR
429	ZCV63-6-1	29	VALVE-CHECK	889	8TJ167GHH1	73	DOWNSTREAM FUEL FILTER
430	ZCV63-6-7	29	VALVE-CHECK	890	320-372-601-0	73	HARNESS J10
431	ZCV63-8	29	VALVE-CHECK	891	320-401-101-0	73	HARNESS J13
432	ZCV64-10	29	VALVE-CHECK	892	320-253-201-0	73	HARNESS J5

*Bidding Document For Component Support Program For PIA A320 Fleet Aircrafts on Flight Hour Basis.*

433	ZCV64-12	29	VALVE-CHECK	893	320-253-301-0	73	HARNESS J6
434	ZCV64-16	29	VALVE-CHECK	894	320-392-702-0	73	HARNESS J8
435	ZCV64-20	29	VALVE-CHECK	895	320-364-202-0	73	HARNESS J9
436	6-1404-0000-4	29	PUMP-HYDRAULIC,HAND	896	320-401-201-0	73	HARNESS CJ13
437	AE80532N	29	COUPLING HALF-QUICK DISCONNECT,SELF SEALING	897	390-611-201-0	73	RATING PLUG
438	TM113-1	29	TRANSDUCER AND SWITCH-TEMPERATURE	898	9043110-16	74	IGNITION LEAD
439	114151004	29	VALVE-HIGH PRESSURE RELIEF	899	10-631045-1	74	IGNITION EXCITER (BOX)
440	1553A9900-01	29	MANIFOLD-HP	900	3888267-7	74	IGNITION PLUG
441	1553A9900-03	29	MANIFOLD-HP	901	396800-12	75	VBV GEAR MOTOR
442	1554A9900-02	29	MANIFOLD-HP	902	3282970-4	75	VBV STOP MECHANISM
443	1555A9900-01	29	MANIFOLD-PTU,HP	903	VG22-01	75	VBV SENSOR
444	1556A9900-02	29	MANIFOLD-PTU	904	VG14-01R	75	VBV FLEXSHAFT
445	1559A9900-01	29	MANIFOLD-HP	905	C25175000-1	75	LPTACC VALVE
446	190QA01	29	TRANSFORMER-CURRENT	906	329695-3	75	HPTCC VALVE
447	310ZN01Y01	29	SENSOR-CURRENT UNBALANCE	907	3291390-2	75	TANSIENT BLEED VALVE
448	4101002-13	29	TRANSFER UNIT-HYD POWER	908	1211313-010	75	VSV ACTUATOR
449	5909780	29	PANEL-STOW,RAT	909	330400M01	76	CONTROL UNIT-THROTTLE
450	71190400010NCOA	29	VALVE-SAMPLING	910	241-246-022-004	77	EVMU-ENGINE VIBRATION MONITORING UNIT
451	764711B	29	ACTUATOR-RAM AIR TURBINE	911	CA170-00	77	HARNESS EGT
452	764711C	29	ACTUATOR-RAM AIR TURBINE	912	CA172-02	77	EGT TC
453	766352	29	RAT-RAM AIR TURBINE	913	320-557-502-0	77	N1 SPEED SENSOR
454	766352A	29	RAT-RAM AIR TURBINE	914	320-549-004-0	77	N2 SPEED SENSOR
455	766352B	29	RAT-RAM AIR TURBINE	915	TC266-00	77	T5 SENSOR
456	A06L00	29	ACTUATOR ASSY	916	8TC19AAR1	77	T3 SENSOR
457	AE80531K	29	COUPLING HALF-QUICK DISCONNECT,SELF SEALING	917	6237M106B	77	TRF VIB SENSOR
458	AE86195G	29	VALVE ASSY-FILL	918	125A3	79	VISUAL INDICATOR
459	AE96993E	29	COUPLING HALF-SELF SEALING	919	337-075-105-0	79	LUBRIFICATION UNIT
460	AE99119K	29	COUPLING HALF	920	11-841193-4	79	OIL HEAT EXCHANGER

**Online Available Lists and Data for Bidder convenience:**

For Bidder convenience, following document are available on-line and can be accessed through link:

[https://drive.google.com/drive/folders/14W6yoYZkHvsFfyu9N9Qk805T42I\\_6obO?usp=sharing](https://drive.google.com/drive/folders/14W6yoYZkHvsFfyu9N9Qk805T42I_6obO?usp=sharing)

- a) **PIA Proposed Positive Coverage List of 920 components (Basic Part Numbers) in worksheet format.**
- b) **Extracts from RSPL document based on the above mentioned fleet.**
- c) **Annexure II Form of Bid (in editable format for copying on bidder letterhead) & Annexure III Integrity Pact (in editable format for copying on bidder letterhead)**

#### **PIA Spare Inventory Information:**

PIA is operating its A320 Fleet since more than Seven (07) years. On the average; it is having at least 01 spare part float of each type of component/ spare fitted. PIA has grounded and reduced to spare 01 aircraft which has created set of spares as per QPA (Quantity per Aircraft). Besides; Ex-AP-BLT Units, PIA has also purchased critical spare parts / No go items and has been replenishing the scrap rejected units.

#### **PIA Experience of Such Program:**

**For A320**, PIA fleet has remained covered in a comprehensive CSP Program of a European MRO / Service Provider since the start of A320 Type fleet operation in 2014/15. This program matured and is expiring in the mid of 2022 after end of its term. The program coverage was revised (PNo.s were added & deleted) with the changes in the PIA Fleet composition. In this program, PIA receives an EASA certified component from the Pool of Service Provider with a warranty Level of 3000hrs or 1 year service whichever comes first. The program covers more than 750 exclusive Part Numbers of components (total with alternates becomes around 1300), with unlimited (no limit/cap) number of exchanges.

**For B777** PIA B777 fleet is covered in a Component Support Program based on FH basis.

**For ATR** PIA ATR fleet is also covered in a GMA (Global Maintenance Agreement) which is basically a component support program on FH basis.

#### **Additional PIA Fleet and the required Component Support Program Information:**

Contract Duration	6 Years
Contract Extension Option	<p>Extension option will be there for any defined with Mutual Consensus of both parties. During the extension the rates and terms of agreement will remain the same.</p> <p>This extension may be needed to continue support of same fleet to cover-up interim support until a major fleet change lease return / renewal process is being finalized.</p>
Aircraft	A320-200 series (CEO)
No. of Aircrafts	12 Existing (Including AP-BLT out of operation and AP-BON in the induction process). 03 more Aircraft are finalized to join PIA Fleet in

	a couple of months
Country of Registration	Pakistan
Flying Hours Per Year	3,000 FH
FH/FC Ratio	2:1 (on average)
Flight Destinations	Domestic , Gulf & Regional Destinations
Expected Protection levels for NO GO, GO IF & GO	AOG: %96 ESS1: MEL-A : 95% ESS2: MEL-B: 95% ESS3 : MEL-C: 92%, MEL-D: 92%
Required Certifications	EASA /FAA

The number of components in coverage shall be subject to re-definition by both parties and adjusted accordingly on annual basis.

**b. Pre-Requisites / Compulsory Requirements of the Program for information and compliance of Bidders.**

CSP Agreement between PIA and the CSP Provider will be based on the following conditions to be included in the contract:

**i. Cut-off Limit of offered Component Coverage as compared with PIA Proposed Coverage List is set at 84%:**

The cut-off limit of Basic Part Numbers to be covered in this program is set at 84% of the PIA Proposed Basic Part Number Coverage List provided in Section C a) of this bidding document.

The technical evaluation criteria Section D 1, 1, may be referred as it provides details of evaluation of component coverage. Offers will be graded based on matching with PIA Proposed list, 100% matching (all parts covered) will be having highest marks in the criteria. The grades will decrease with lesser matching. Below 84% matching offers will not be considered.

**ii. Un-limited Number of Exchanges**

PIA will place an order, whenever a component covered in the program is found defective. CSP Service Provider will deliver an exchange unit against order for replacement on the aircraft.

**iii. Repairs and Guaranteed availability to be covered:**

All Normal Repairs / restoration charges and guaranteed availability is to be covered in CSP offered rates.

**iv. Mandatory SB and AD discounts to airlines:**

Discounts applicable to airline customers by OEM's / Aviation Authorities for implementation of Mandatory SB's and / or AD's on components covered in the program is to be provided / arranged by CSP service provider.

**v. Repairs not covered in FH Rate:**

The repairs for errors in removal / installation and operational negligence's, shipping damages should only be covered under "Exclusions" and are chargeable on Time and Material Basis for their extent only. The Normal Wear and Tear /Repair portion is not to be charged on T&M basis as this is to be automatically covered in FH rate invoices. Prior Notice email to inform about such repairs is required to be sent atleast 20 days before creation of invoice. The Notification email should include details of the repair/analysis report, exclusion justification, pictures, marking, notes, quotation of each part/spare needing replacement and manhours needed for such tasks. PIA Technical Services Section etc may contest such notifications and exclusion justification. Such Cases are to be resolved by continued communication and details shared according to agreement clauses, industry experiences / averages and technical details.

**vi. BER support**

- a) 100% Replacement of a component for its core unit declared BER due normal wear and tear or life expiry, will be covered in the FH Rates of the program.
- b) In case of BER other than point no. a) above, PIA will have option that if it has an EASA / FAA released unit of the service provider, it may return it in lieu of BER unit.
- c) The offered option of Section D, 1. Technical Evaluation Criteria, Point 8. is to be charged for BER replacement invoices created as per vi. b) above.

**vii. Core Return Days**

PIA will normally opt for replenishment order which will be submitted once the export formalities of core unit at Karachi are completed and unit is about to reach the delivery Point (destination) in next week time. About 90% of orders for this program will be processed in the same manner since PIA has a good inventory for support of its operation.

However for other orders which will be AOG / Critical in Nature or if their replenishment for which a spare is not available, PIA estimates that as per its experience the Import/Export formalities will take a 30 days core return time in general; starting from delivery of such orders at the delivery center of the service provider.

**viii. Penalty on Late Return of Core Unit:**

PIA discourages application of penalty on late return on core units. As mentioned in Point No. vii. above, the majority of component will complete their cycle well within the agreed time; the late cases if any will be rare and PIA would like to have a 3 monthly analysis and meeting to discuss the logistics with service provider. During the meeting; such matters are supposed to be resolved.

**ix. NFF Limit:**

Keeping in view of PIA experience of such program and the expertise of PIA Engineering & Maintenance staff; units are removed after careful analysis and fault isolation. As such there is no chance of NFF orders exceeding 10 to 15 % and therefore the NFF limitation clause shall not be included in the agreement.

**x. Delivery time frame:**

- a) AOG Orders: Delivery in 24 hrs of ordering
- b) Normal/critical Orders: Delivery in 03 days of ordering
- c) Stock Replenishment Orders: Delivery in 07 days of ordering
- d) Planned Orders: Delivery in 15-20 days of ordering

**xi. Component Delivery Documentation and their Reliability Level:**

All released components provided by CSP provider in exchange from its pool etc must have original signed copy of EASA Form 1/FAA - 8130 /CAA UK Form-1 or TCCA Form-1 release certificate. The Release Certificate should also include Workshop report of issuing repair agency (or OEM C of C in case of new components). Other documents like tracking tag etc may also be included. The component must have a reliability level of around 12 calendar months or 3000 FH usage.

**xii. Addition / Removal of Aircraft**

In case of total loss, lease return, permanent grounding, long grounding > 3 months of covered aircraft; Both parties agree to remove / amend the Fleet Size covered under CSP Program. In all such cases the Fleet is to be updated for monthly invoicing and yearly reconciliation. The other term and condition will remain same.

**xiii. Invoicing**

a) Monthly Invoicing FH Invoicing:

Monthly Invoicing will be based on FH rate quoted in Financial Offer multiplied with average monthly utilization of flight hours based on the existing fleet average. This invoice is to cover normal repairs/replacement, modification with in threshold of D, 1 points 11 and 12, pool access /availability. The FH yearly reconciliation will be done using actual yearly FH figures, Fleet applicable size and Min Guaranteed Fleet Hours of the agreement.may be invoiced or credit note

b) Other than Monthly FH Invoices:

Any additional invoice except for monthly invoicing should be generated after a notification emails with around 20 days response period. The notification email should inform the details of event to be invoiced and full written and pictorial justification on case to case basis.

c) Shipping Invoice with delivered Exchange Units:

Each time a part is made available for collection at delivery center or a batch of parts are made available for collection, there must be a shipping invoice / invoices to include the normal shipment details and should also have a NOTE: This Serviceable Component is being delivered in Exchange of PIA Core (Unserviceable Component) as per 1 to 1 CSP Exchange Program. And the Value of the Invoice, must have a Repair Value as last column. The Repair Value is to be typically around 6% of the CLP/Value of the component.

**xiv. Packaging**

All parts must be in ATA 300 standard packing during logistics movement.

**xv. Material Handling Charges; Subcontracted Handling Charges.**

In case of Repairs / work on Time and Material Basis if any, the Material Handling Charges and Subcontracted Handling Charges may be quoted as required in Annex IV.

## Section D – Evaluation of Bids

In order to ensure that the selection process is conducted in fair and transparent manner, following Evaluation Criteria will be followed to determine the best suitable service provider for PIA in efficient and economical manner:

### 1. Technical Evaluation Criteria

Technical Evaluation grading will be based on criteria and points obtained as mentioned below:

**1. Component coverage offered - Matching with PIA Coverage List: (Weightage 26%)**

Bidders to provide their component coverage list with P/N in worksheet format for ease of comparison.

Offered coverage ≥ 98% Match	Matching 98% > offered coverage ≥ Matching 96%	Matching 96% > offered coverage ≥ Matching 94%	Matching 94% > offered coverage ≥ Matching 92%	Matching 92% > offered coverage ≥ Matching 90%	Matching 90% > offered coverage ≥ Matching 88%	Matching 88% > offered coverage ≥ Matching 86%	Matching 86% > offered coverage ≥ Matching 84%	offered coverage < Matching 84%
10	8	6	5	4	3	2	1	Cut-off

**2. ATA Chapter wise coverage of critical components; routinely exchanged as per industry standards: (Weightage 12%)**

Full Coverage = 100%	100% > coverage ≥ 98%	98% > coverage ≥ 96%	96% > coverage ≥ 94%	94% > coverage ≥ 92%	coverage < 92%
10	8	6	4	1	0

**3. In-house capability - the ability to repair components from offered list at bidders owned facility. Facility details may be provided. (Weightage 4%)**

Capability ≥ 80%	80% > Capability ≥ 65%	65% > Capability ≥ 50%	50% > Capability ≥ 35%	35% > Capability
10	8	6	4	2

**4. Number of A320 Aircraft already under component support. Breakdown of customers may be provided. (Weightage 4%)**

Number of A320 ≥ 400	400 > Number of A320 ≥ 200	200 > Number of A320 ≥ 100	100 > Number of A320 ≥ 50	50 > Number of A320 ≥ 40	Number of A320 < 40
10	8	6	4	2	0

**5. BER Financial support percentage.**

NOTE: As mentioned in Section B b) vi, All routine expiries, normal wear and tear BER's will be covered in the FH rates of the program.

This criteria point relates to BER cases due any reason other than normal wear and tear or life expiry. These include cases in which BER replacement of component is necessary and it has been notified via shop reports / justification that full BER reasons are applicable due to abnormal wear & tear/FOD/Damages.

**For example: BER Financial Support of  $\geq 65\%$  of CLP means that if BER replacement is chargeable to PIA (After consideration of portion if any covered in FH rate) , It will be done by considering the Fair Market Value of the used unit. The service provider will invoice the customer up to  $(100 - 65 = 35\%)$  of the CLP for its pool replenishment against BER Unit.**

**Similar scenario's for different levels of support are given in options of the grading matrix below. Bidder is required to select his offered support option. (Weightage 15%)**

Waiver of 65% of CLP value by service provider (BER* Customer will be invoiced up to 35% of CLP)	Waiver of 55% of CLP value by service provider (BER* Customer will be invoiced up to 45% of CLP)	Waiver of 45% of CLP value by service provider (BER* Customer will be invoiced up to 55% of CLP)	Waiver of 35% of CLP value by service provider (BER* Customer will be invoiced up to 65% of CLP)	No Support
<i>BER* refers to components declared beyond economic repair due to abnormal / induced damage which was notified earlier</i>				
10	7	5	3	0

**6. Re-delivery days of core unit. Calendar days to start from collection from delivery center till core delivery intimation at collection center. Refer section C b) vii for details (Weightage 12%)**

Redelivery Days $\geq 30$	30 > Redelivery Days $\geq 25$	25 > Redelivery Days $\geq 21$	21 > Redelivery Days $\geq 17$	Redelivery Days < 17
10	7	5	3	0

**7. Penalty on late return. Refer section C b) viii for details (Weightage 7%)**

No Penalty	0.25% of CLP charged on each additional day over the number of days quoted in Criteria Point # 6 above.	0.5% of CLP charged on each additional day over the number of days quoted in Criteria Point # 6 above.	0.75% of CLP charged on each additional day over the number of days quoted in Criteria Point # 6 above.	1% of CLP charged on each additional day over the number of days quoted in Criteria Point # 6 above.
10	7	5	3	1

**8. Minimum Annual Guaranteed Flying Hours (MAGFH) on per aircraft basis. Calculated on the Average of the applicable fleet aircraft flown hours. Refer Section C, b clause xii and xiii). (Weightage 4%)**

No Limit (on actual basis)	MAGFH $\leq 2250$	2250 < MAGFH $\leq 2400$	2400 < MAGFH $\leq 2550$	2550 < MAGFH $\leq 2700$	MAGFH > 2700
10	8	6	4	2	0

**9. AOG Order Allowed Limit. (Weightage 4%)**

25% < AOG Orders $\leq 30\%$ (Compared with total number of orders)	20% < AOG Orders $\leq 25\%$ (Compared with total number of orders)	15% < AOG Orders $\leq 20\%$ (Compared with total number of orders)	AOG Orders $\leq 15\%$ (Compared with total number of orders)
10	8	6	4

**10. Component Modification Charges Waiver Threshold. (Weightage 7%)**

Due to FH Contract, service provider will grant waiver on component modification charges applicable on removed components of customer. Customer will get discount of USD 4,000 on each modification per component. (Mods costing below this threshold will be done on FOC basis)	Due to FH Contract, service provider will grant waiver on component modification charges applicable on removed components of customer. Customer will get discount of USD 3,500 on each modification per component. (Mods costing below this threshold will be done on FOC basis)	Due to FH Contract, service provider will grant waiver on component modification charges applicable on removed components of customer. Customer will get discount of USD 3,000 on each modification per component. (Mods costing below this threshold will be done on FOC basis)	Due to FH Contract, service provider will grant waiver on component modification charges applicable on removed components of customer. Customer will get discount of USD 2,500 on each modification per component. (Mods costing below this threshold will be done on FOC basis)	Due to FH Contract, service provider will grant waiver on component modification charges applicable on removed components of customer. Customer will get discount of Less than USD 2,500 on each modification per component. (Mods costing below this threshold will be done on FOC basis)
10	8	6	4	2

**11) Component Warranty for FOC Repair etc (Weightage 2%)**

Warranty Period from Order Delivery ≥ 12 Calendar Months or 3000 FH usage	Warranty Period from Order Delivery ≥ 8 months or 2000 FH usage	Warranty Period from Order Delivery ≥ 6 months or 1500 FH usage	Warranty Period from Order Delivery < 6 months
10	7	5	2

**12) For Components which are NOT Covered in the CSP Program List, in rare cases, If exchange option from service provider's pool or surplus inventory is available. An agreed Exchange Fee and Core BER threshold may be set as a general rule in consideration of the main long term CSP agreement between the parties is in place. (Weightage 3%)**

Arrangement of Exchange Unit at Exchange Fee @ 3% CLP, core unit repair on T&M basis, Core BER Charge 35% of CLP	Arrangement of Exchange Unit at Exchange Fee @ 4% CLP, core unit repair on T&M basis, Core BER Charge 45% of CLP	Arrangement of Exchange Unit at Exchange Fee @ 5% CLP, core unit repair on T&M basis, Core BER Charge 55% of CLP	Arrangement of Exchange Unit at Exchange Fee @ 6% CLP, Core BER Charge on T&M basis, BER 65% of CLP	No Support
10	8	6	4	2

Marks will be calculated as per following formula:

A = Obtained Points (Criteria 1)x weightage (Criteria 1) x 10 + Obtained Points (Criteria 2)x weightage (Criteria 2) x 10+.....+ Obtained Points (Criteria 12)x weightage (Criteria 12) x 10

## **2. Financial Evaluation Criteria**

The financial comparison will be based on Cash Flow requirement over the Six years term.

Marks will be calculated based on accumulative cost/payments over the term of six years.

Marks will be calculated as per following formula:

$$B = PVx / PVy \times 100$$

PVx = Lowest Value of Cash Flow amongst all service provider offers.

PVy = Value of Cash Flow of a service provider.

## **3. Methodology for Assessing Most Advantageous Bid**

Following methodology will be used for assessing the Most Advantageous Bid:

$$X = [(A \times TEW)] + [(B \times FEW)]$$

Where,

X = Net Outcome

A = Marks obtained in Technical Criteria

B = Marks obtained in Financial Criteria

TEW = Technical Evaluation Weightage = 50%

FEW = Financial Evaluation Weightage = 50%

The offer with highest Net Outcome will be considered as the Most Advantageous Bid.

## **ANNEXURE 'I'**

### **Technical Proposal**

#### **General Information and Assumptions**

Each Bidder is required to provide details to enable grading as per Technical Evaluation Criteria. Bidder should provide his selection of the options mentioned in the criteria for marking and calculating grading result.

Following are program general information and assumptions for evaluation:

The scopes of services required are:

- Access to a pool of rotatable components on a one-for-one exchange basis, the processes to demand, deliver and return those components to/from the supplier.
- And
- the test, repair, overhaul, modification and scrap replacement of those exchanged components.

Under following information and assumptions;

#### **1. Component Coverage**

Full ATA coverage to facilitate smooth operation of A320 fleet.

The number of components in coverage shall be subject to re-definition by both parties and adjusted accordingly on annual basis. For technical evaluation, a complete list of A320 components to be supported by CSP provider may be submitted. The list should include Component Description, P/N, ATA Chapter and remarks if any.

#### **2. Component Pool Access and Material Availability**

- Guarantee of availability for 1-to-1 exchange
- Inclusion of all exchange fee cost and all administration cost
- Provision free of charge of a loan unit in case of non-availability of a component from the pool in an AOG case
- AOG Service 24/7 and response time for AOG request within 30 minutes
- Components removed during base Maintenance
- Guaranteed Service level according to the agreement to be provided.

#### **Component MRO Support**

- Inclusion of all cost in order to bring the unserviceable units to a serviceable condition according to the approved CMM. (e.g. material, test bench and man hour cost for test, minor repair, major repair and overhaul etc.)

- All mandatory ADs and all mandatory SBs must be included up to Limit set in Technical Evaluation per engineering order and serial number Provision of all consumables & expendables used in inspection, testing, repair and overhaul of Pool Components
- Scheduled removals of covered components
- Component Reliability Monitoring
- Interchangeability management
- Management and recommendation regarding implementation of ADs and SBs
- Electronic/IT platform to order Materials/Components via Internet
- Support during capability build-up for maintenance, repair and overhaul of aircraft components
- Trainings including Program Familiarization, Web-Portal/Software Platform Training on ongoing basis
- Provide details on commitments on post Warranty and Performance Guarantees

## **ANNEXURE 'II'**

### **Form of Bid**

Date: \_\_\_\_\_

Ref: \_\_\_\_\_

To: Chief Technical Officer

**Pakistan International Airlines**

Dear Sir,

Having examined the Bidding Documents, we, the undersigned, offer proposal for Component Support Program For PIA A320 Fleet Aircrafts on Flight Hour Basis under the tender reference published in PIA and PPRA Websites in full conformity with the said Bidding Documents against the terms and conditions mentioned in the Technical Proposal 'Annex-I' and Financial Proposal 'Annex – IV'.

We undertake, if invited to do so by you, and at our own cost, to attend a clarification meeting at a place of your choice.

We agree to abide by this Bid, for a period of 90 days from the date fixed for submission of bids as stipulated in the Bidding Documents, and together with the above written undertakings, it shall remain binding on us.

Until a formal agreement is prepared and executed between us, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

\_\_\_\_\_  
Signature of Authorized Person

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Official Seal

Dated this day of, 22

## **Annex - III**

### **Integrity Pact**

[Name of Bidder] hereby declares its intention not to obtain or induce the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing, [Name of Bidder] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, Representative, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or including the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Bidder] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[Name of Bidder] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Bidder] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Bidder] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

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Signature of the Bidder  
(Name, Title and Address)  
(Official Seal)

## **ANNEXURE 'IV'**

### **Financial Proposal**

Please provide your offer with following information. All rates must be inclusive of all terms as requested in bidding documents.

#### **1. CSP Program Rate (CSP Rate on per Flight Hour Basis):**

a) Component Repair Rate	=	_____	Currency _____
b) Pool Access Charges	=	_____	Currency _____
Total	=	_____	Currency _____

The above rates are to be multiplied with Average Monthly Fleet Hours for creation of CSP Monthly Billing Invoices.

At every year end reconciliation of flight hours will take place to cater for actually flown fleet hours and monthly billed hours throughout the year.

Minimum guaranteed Average fleet hours and Number of active fleet aircraft (Section "C", Part "b", item "xii and xiii") will be taken into consideration during annual reconciliation.

#### **2. Delivery Center Location:**

THE SERVICE PROVIDER will make available the Exchange Component at the Delivery Center / Point.

THE CUSTOMER shall send and THE SERVICE PROVIDER shall receive the Removed Component at the same Delivery Center / Point.

Full Address of the Delivery Center / Point: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

(Note: In case of deliveries from more than a single point, details of each location along with approximate percentages of deliveries from each location may be informed)

PIA will estimate the logistics cost based on the location along with deliveries/returns.

**3. Yearly Escalation will be applied on:**

- a) Component Repair Rate = Yes \_\_\_\_\_ No \_\_\_\_\_  
b) Pool Access Charges = Yes \_\_\_\_\_ No \_\_\_\_\_

**4. Yearly Escalation will be based on:**

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(The escalation index references and the formula (if any) must clearly be presented. Capping on escalation if any must be mentioned.)

**5. Last Three years data of yearly escalation** shows 2021 escalation was \_\_\_\_\_  
2020 escalation was \_\_\_\_\_  
2019 escalation was \_\_\_\_\_

**6. Price Level**

All prices offered shall be price level 2022.

**7. Time & Material Conditions**

Besides the CSP Agreement, for Components / Repairs not covered in the program, following details are to be provided:

- Man hour rate: \_\_\_\_\_ Currency \_\_\_\_\_
- Subcontracted handling charge: \_\_\_\_\_ Currency \_\_\_\_\_
- Material handling charge: \_\_\_\_\_ Currency \_\_\_\_\_