

INVITATION TO BID

Tender Ref: GMCM/GE-90/Repair & Overhaul/01/2024

Pakistan International Airline (PIA) invites quotations through EPADS and sealed bids from renowned (Eligibility as per Bidding Documents) Vendors on “Single Stage Two Envelope Basis” for

“Repair & Overhaul of GE90 Series Engines installed on PIACL B777 Fleet”.

Bidding documents containing detail terms and conditions, etc. are available electronically and can be downloaded from

PIACL Website <https://www.piac.com.pk/corporate/sales- procurement/tenders>

PPRA Website <https://www.ppra.org.pk/active-tenders>

EPADS-PPRA website <https://www.eprocure.gov.pk> through Supplier Login

Bids should be submitted electronically through EPADS.

The bids must be prepared in accordance with the instruction in the bidding documents and must be submitted by **15-07-2024** on/before 10:30 AM. Bids will be opened on the same day at 11:00 AM.

Hard Copies of bids along with Original Bid Security instrument MUST BE submitted to the under signed before above given deadline.

Pakistan International Airlines
GM Contract Management Division
1st Floor, Supply Chain Management Department Building, [PIACL], Head
Office Karachi Airport-75200 Pakistan
Tel: +92-21-99044216 / 5277
E - mail. gm.cm@piac.aero / contract.tech@piac.aero
Website: <http://web.piac.com.pk/>

IMPORTANT NOTES

Bidding documents, containing detailed terms and conditions, etc. are available and can be downloaded from PIA Website <https://www.piac.com.pk/corporate/sales-procurement/tender> as well as from E-PADS PPRA web site www.eprocure.gov.pk free of cost. Bidders need to get registered at E-web portal of E-PADS PPRA (**Federal**) to access the tender document and other relevant information including electronic bid submission. In case of any help regarding EPADS online submission Mr. Wali Sohaib Najeeb Cell No. +92 345 9897000 and email auditcell.scm@piac.aero and contract.tech@piac.aero may be contacted.

Bids should be submitted electronically ONLY through EPADS PPRA web portal. Manual submission of bid, without EPADS electronic bid is NOT acceptable. For registration and training on EPADS or in case of any technical difficulty in using EPADS, prospective bidder/s may contact Mr. Rizwan Mehmood, Director MIS Room No.109, 1st Floor, FBC Building Sector G-5/2, Islamabad or Helpline Contact No. 051-111-137-237.

The bids prepared in accordance with the instructions in the bidding documents must be submitted through EPADS web portal by closing time & date mentioned in the tender document. Bids will be opened on the same day at 11:00 AM through EPADS. All interested bidders must register themselves at EPADS by using link: <https://eprocure.gov.pk/#/supplier/registration> Original Bid Security and Tender Fee instrument MUST BE attached with the Technical Proposal and the reference / PayOrder copy must be submitted through EPADS online submission as well, before Tender Closing Date & Time (For Local Bidders only).

Note for International Bidders

International Suppliers/Vendors/Bidders are requested to register on EPADS if for assistance to get registered contact PIA Focal EPADS Mr. Wali Sohaib Najeeb Cell No. +92 345 9897000 and email auditcell.scm@piac.aero and contract.tech@piac.aero.

In the event that Foreign bidders are unable to register on an EPAD, manual bids (subject to company management approval) may be submitted; but, in compliance with PPRA instructions, all bidders, whether local and foreign, must subsequently register on EPADS.

For Manual submission (without EPADS) either hard copies or electronic copies can be submitted on the following addresses.

For Electronics Bids Submission:

Electronic Bids must be password protected and password of the bids is requested to be sent 30 minutes on or before the tender closing time that is 10:30 AM (Pakistan Standard time) on the email: dgmppm@piac.aero . Electronics Bids submission intimation should be sent on email: contract.tech@piac.aero .

For Bids (Hard Copies) Submission:

GM Contract Management
Supply Chain Management
PIA Head Office, Karachi
Tel: 021 – 9904 4216, 9904 5277
Email: gm.cm@piac.aero
contract.tech@piac.aero

Tender for
Repair / Overhaul of GE90 Series Engines
installed on PIACL B777 Fleet

Section A - Instructions to Bidders

1. Scope of Tender

Pakistan International Airlines Corporation Limited (PIACL) invites “sealed proposals” from interested parties for the “Repair & Overhaul of GE90 Series Engines installed on PIACL B777 Fleet”. The services must include following,

- Complete Repair / Overhaul of GE90 Series Engine with upto date MOD status. (i.e. incorporation of all applicable ADs, Mandatory / Recommended SB’s)
- Quick turn Repair
- On-site Quick Turn Repair by On-wing Support Option
- Availability of Loaner engine to support operations of Aircraft
- Bidder can bid for **one or both** Engines repair

2. Mandatory Requirements

S/N	Mandatory Requirements	YES/NO
1.	Must have in-house Repair / Overhaul Capability of GE90 Series Engines	
2.	Experience of GE90 Series Engine Overhaul in Last 03 Years	
3.	PIA requires any of the following certification for repaired / overhauled Engines. <ul style="list-style-type: none"> • EASA Form-1 • FAA Form 8130 • TCA Form 24-0078 	
4.	The Service Provider must get their facility audited and approved by Pakistan Civil Aviation Authority (PCAA 145)	
5.	PMA parts and DER repairs (With Customers Consent Only)	

- Offer MUST contain the above table duly filled to consider the proposal.

Section B – Evaluation of Proposals

Note: Proposals must contain the criteria table with offer mentioned against each field.

1. Technical Evaluation Criteria for ESN: 906-442

Following Criteria will be used for Evaluation:

S/N	Criteria	Unit	Weightage	Bidders Offer
1	Turnaround time in days.	Number	10	
2	Maximum excusable days in TAT	Number	4	
3	Minimum Non-Excusable Days in TAT	Number	4	
4	Loaner Engine offer in case of extension of offered TAT (whether Excusable and/or Non-Excusable Days) with discounted Daily Rental	Agree / Not Agree	10	
5	Warranty Terms			
	a) On-wing life (Days)	Calendar Days	05	
	b) On-wing Life (Minimum 3000 FC)	Flight Cycles	05	
6	In case of engine failure within warranty period, it is mandatory to provide FOC loaner, repair and transportation both ways by the service provider	Agree / Not Agree	05	
7	Sharing in Transportation Charges to & from PIA base	100% Transportation will get full marks(10)	10	
		50% Transportation will get 5 marks		
8	Management of Engine Transportation	Agree /Not Agree	06	
9	On-site Quick Turn Repair by On-wing Support Team	Agree /Not Agree	05	
10	Availability of Induction Slot within 20 days after receipt of repair order from PIA	Agree / Not Agree	6	
11	Arrangement of PIA representatives for table inspection (Transportation ,boarding, lodging etc)	Agree / Not Agree	6	
	TOTAL		75	

Marks will be calculated as per following formula:

Obtained Marks (A) = (Best Offer / Service Provider's offer) x weightage

2. Financial Evaluation Criteria for ESN: 906442

S/N	Criteria	Units	Weightage	Fill Here
1.	Not To Exceed Price for workscope and points given in Annex-A and Annex-B (Including test & fuel charges)	USD	80	
2.	All Modules Fix Labour Charges (in case of workscope escalation or reduction)	USD	15	Annex-C
3.	Non Routine (Out of workscope) Labor Rate	USD	02	
Replacement Parts				
4.	a) Used Serviceable Parts (LLPs)	% Pro-rate	03	
	b) Used Serviceable Parts (Non-LLPs)	% CLP	03	
	c) Rotable Exchange	% CLP	03	
	d) Component Repair	% CLP	03	
	e) Accessory & QEC Repairs	% CLP	03	
Standard Exchange Charges (% CLP)				
5.	a) For Used Serviceable Non-LLP's	% CLP	02	
Handling Fee Type				
6.	a) New Parts (Non-LLP)	% CLP	01	
	b) New Parts (LLP)	% CLP	01	
	c) Rotable Exchange	% CLP	01	
	d) Customer Furnished Equipment / Parts	% CLP	01	
	e) Used Serviceable LLP Parts	% OF INVOICE	01	
	f) Used Serviceable Non-LLP Parts	% OF INVOICE	01	
	g) Sub-contracted Services	%OF INVOICE	01	
Capping on Handling Charges				
7.	a) New Parts per Item and per Line Item	USD	01	
	b) New LLP Parts	USD	01	
	c) New Non-LLP Parts	USD	01	
	d) Used Serviceable Parts (LLPs)	USD	01	

Bidding Document For Repair & Overhaul of GE90 Series Engines

	e) Used Serviceable Parts (Non-LLPs)	USD	01	
	f) Sub-Contracted work	USD	01	
	g) Sub-contracted Work per Item and per Line Item	USD	01	
	Payment Terms			
8.	a) Initial Payment at Induction (20% of NTE Cost)	% Invoice	05	
	b) 30% of NTE cost after Table Inspection	% Invoice	05	
	c) 50% of NTE cost after testing		05	
	d) Remaining Invoice after Delivery of engine within 30 days	Yes / No	05	
9.	Penalty per day in case of extended TAT	USD	02	
Total			150	

All financial offers must be in USD.

Marks will be calculated as per following formula:

Formula for all Dollar Value Points is **Obtained Marks = (Highest Offer / Bid Offer) x Weightage**

For remaining points **Obtained Marks = (Best Offer / Bidder's Offer) x weightage**

Total Marks Obtained = (40% x Marks obtained in Technical Evaluation) + (60% x Marks obtained in Technical Evaluation)

Section B – Evaluation of Proposals

Note: Proposals must contain the criteria table with offer mentioned against each field.

1. Technical Evaluation Criteria for ESN: 906-151

Following Criteria will be used for Evaluation:

S/N	Criteria	Unit	Weightage	Bidders Offer
1	Turnaround time in days.	Number	10	
2	Maximum excusable days in TAT	Number	4	
3	Minimum Non-Excusable Days in TAT	Number	4	
4	Loaner Engine offer in case of extension of offered TAT (whether Excusable and/or Non-Excusable Days) with discounted Daily Rental	Agree / Not Agree	10	
5	Warranty Terms			
	c) On-wing life (Days)	Calendar Days	05	
	d) On-wing Life (Minimum 3000 FC)	Flight Cycles	05	
6	In case of engine failure within warranty period, it is mandatory to provide FOC loaner, repair and transportation both ways by the service provider	Agree / Not Agree	05	
7	Sharing in Transportation Charges to & from PIA base	100% Transportation will get full marks(10)	10	
		50% Transportation will get 5 marks		
8	Management of Engine Transportation	Agree /Not Agree	06	
9	On-site Quick Turn Repair by On-wing Support Team	Agree /Not Agree	05	
10	Availability of Induction Slot within 20 days after receipt of repair order from PIA	Agree / Not Agree	6	
11	Arrangement of PIA representatives visit (3pax/engine shop visit) (Hotel Accommodation, Meals & Transportation to & from facility)	Agree / Not Agree	6	
	TOTAL		75	

Marks will be calculated as per following formula:

Obtained Marks (A) = (Best Offer / Service Provider's offer) x weightage

2. Financial Evaluation Criteria for ESN: 906151

S/N	Criteria	Units	Weightage	Fill Here
1.	Not To Exceed Price for workscope and points given in Annex-A and Annex-B (Including test & fuel charges)	USD	80	
2.	All Modules Fix Labour Charges (in case of workscope escalation or reduction)	USD	15	Annex-C
3.	Non Routine (Out of workscope) Labor Rate	USD	02	
Replacement Parts				
4.	f) Used Serviceable Parts (LLPs)	% Pro-rate	03	
	g) Used Serviceable Parts (Non-LLPs)	% CLP	03	
	h) Rotable Exchange	% CLP	03	
	i) Component Repair	% CLP	03	
	j) Accessory & QEC Repairs	% CLP	03	
Standard Exchange Charges (% CLP)				
5.	b) For Used Serviceable Non-LLP's	% CLP	02	
Handling Fee Type				
6.	h) New Parts (Non-LLP)	% CLP	01	
	i) New Parts (LLP)	% CLP	01	
	j) Rotable Exchange	% CLP	01	
	k) Customer Furnished Equipment / Parts	% CLP	01	
	l) Used Serviceable LLP Parts	% OF INVOICE	01	
	m) Used Serviceable Non-LLP Parts	% OF INVOICE	01	
	n) Sub-contracted Services	%OF INVOICE	01	
Capping on Handling Charges				
7.	h) New Parts per Item and per Line Item	USD	01	
	i) New LLP Parts	USD	01	

Bidding Document For Repair & Overhaul of GE90 Series Engines

	j) New Non-LLP Parts	USD	01	
	k) Used Serviceable Parts (LLPs)	USD	01	
	l) Used Serviceable Parts (Non-LLPs)	USD	01	
	m) Sub-Contracted work	USD	01	
	n) Sub-contracted Work per Item and per Line Item	USD	01	
	Payment Terms			
8.	e) Initial Payment at Induction (20% of NTE Cost)	% Invoice	05	
	f) 30% of NTE cost after Table Inspection	% Invoice	05	
	g) 50% of NTE cost after testing		05	
	h) Remaining Invoice after Delivery of engine within 30 days	Yes / No	05	
9.	Penalty per day in case of extended TAT	USD	02	
Total			150	

All financial offers must be in USD.

Marks will be calculated as per following formula:

Formula for all Dollar Value Points is **Obtained Marks = (Highest Offer / Bid Offer) x Weightage**

For remaining points **Obtained Marks = (Best Offer / Bidder's Offer) x weightage**

Total Marks Obtained = (40% x Marks obtained in Technical Evaluation) + (60% x Marks obtained in Technical Evaluation)

Annex-“A”

“Not to Exceed points” base price **“MUST INCLUDE”** following:

1. Preparation for testing and Engine Testing Charges (exclusive of Fuel & Oil)
2. Engine receiving inspections including BSI and inventory checks.
3. Detailed outgoing inspection with preparation for shipment.
4. All required labor (routine and non -routine work and repairs).
5. Consumable and expendable Material
6. Replacement of hardware will be preferable with used serviceable/overhauled in case original part is repairable or scrapped.
7. Exchange/Pool Material
8. Replacement of all type of Hardware (Including Non LLPs, each blade & Vane etc) scrapped part irrespective of their cost related for all level of worksopes i.L1, L2 , L3 &L4
9. Replacement of HPT S1 /2 Blades will be New/Overhauled with TSO/CSO 00/00

Last shop visit documents of these two engines are available in Google drive link below.

ESN: 906-442 LAST SHOP VISIT

<https://drive.google.com/drive/folders/1jn1O2wvD8Qko0wolHD0-selcLy-IQ-5G?usp=sharing>
WORK SCOPE/LLPs (906-442).

ESN: 906-151 LAST SHOP VISIT

https://drive.google.com/drive/folders/1utJ_Ooy1Fho6b8zdwpe0SxowDQWUIUpg?usp=sharing

WORK SCOPE/LLPs (906-151).

Annex "B"

WORKSCOPE

Annex "B" (ESN 906-442)

GE90 ENGINE WORKSCOPE DATA	
ESN	906-442
ENGINE TYPE	GE115
Aircraft	BHV
Position	1
Reason of Removal	T/X LLP
Date of Removal	03-04-24
ECSN	8200
ETSN	51927
CSLSV	4100
TSLSV	26493
CSO (HOT SECTION)	4100
TSO (HOT SECTION)	26493

S/N	ESN	MOD(CODE)	NOMENCLATURE	Workscope Required	Remarks
1	906-442	(21X/A)M21	FAN BOOSTER ASSY	LEVEL 4	
2	906-442	(22X/B)M23	NO.1-2 BRG/ASSY	LEVEL 2	
3	906-442	(61X/U)M32	IGB	LEVEL 2	
4	906-442	(62X/V)M33	TGB	LEVEL 4	
5	906-442	(31X/E)M51	HPC ROTOR	LEVEL 4	
6	906-442	(32X/F)M52	HPC STATOR	LEVEL 4	
7	906-442	(41X/F)M45	Combustor Diffuser	LEVEL 3	
8	906-442	(410)M54	COMBUSTOR	LEVEL 3	
9	906-442	(51X/T)M55	ST1 NOZZLE	LEVEL 4	
10	906-442	(52X/L)M56	ST2 NOZZLE	LEVEL 4	
11	906-442	(53X/M)M57	HPT ROTOR	LEVEL 4	
12	906-442	(54X/N)M58	TCF ASSY	LEVEL 4	
13	906-442	(56X/T)M61	LPT ROTOR/STATOR	LEVEL 4	
14	906-442	(57X/S)M63	TRF ASSY	LEVEL 2	
15	906-442	(58X/T)M64	LPT MID-SHAFT	LEVEL 2	
16	906-442	(64X/W)M71	AGB ASSY	LEVEL 3	

NOTES:

- 1 Engine to be built for LLP stub life of HPT Stator Case with minimum life of 4800 cycles.
- 2 All open ADs to be complied.
- 3 Consult engine last shop visit document for details of work done during the visit on each module.
- 4 Re work LLPs if applicable for enhancement of their life subject to extent of disassembly of module.
- 5 All accessories to be repaired as per GE90-100 Engine WSPG
- 6 Used LLPs to be installed for replacement to match engine build life.

Important SBs:

In additions to other Mandatory/Recommended SBs, comply the following SBs in case of applicability.
72-0676, 80-0031, 72-0686,80-0016



**Technical Services Engineering
Power Plant Overhaul Division
PIA Engineering & Maintenance
ENGINES LLP STATUS**

ESN	S/N	Eng. Type	CURRENT ENGINE TSN	CURRENT ENGINE CSN	Nomenclature	PART NO.	PART SR NO.	PARTTSN CURRENT	PART CSN CURRENT	CYCLES LIMIT	CYCLES REMAIN
906-442	1	GE90-100	51927	8200	DISK, STG 1 FAN	2032M68G02	GWN0GKF1	51927	8200	15000	6800
	2	GE90-100	51927	8200	SPOOL, BOOSTER	351-200-006-0	BD020185	51927	8200	15000	6800
	3	GE90-100	51927	8200	SHAFT, FAN FWD	2209M10G02	IHIDL403	51927	8200	15000	6800
	4	GE90-100	51927	8200	CASE, EXTENSION HPC	351-100-111-0	DE165928	51927	8200	14000	5800
	5	GE90-100	51927	8200	BLISK, STG1 HPC	351-101-011-0	BC998917	51927	8200	15000	6800
	6	GE90-100	51927	8200	SHAFT, CONE HPC	351-102-906-0	DE038183	51927	8200	15000	6800
	7	GE90-100	51927	8200	SPOOL, STG 2-5 HPC *	351-103-146-0	PA102564	51927	8200	8200	0
	8	GE90-100	51927	8200	DISK, STG 6 HPC	351-100-904-0	PA023045	51927	8200	11500	3300
	9	GE90-100	51927	8200	SPOOL, STG 7-9 HPC	2032M23G01	GWN0GMFM	51927	8200	11800	3600
	10	GE90-100	51927	8200	RING, TUBE SUPPORTER	351-101-103-0	DD201617	51927	8200	15000	6800
	11	GE90-100	51927	8200	SEAL, CDP ROTATING	2012M71P02	GEE1G5D5	51927	8200	15000	6800
	12	GE90-100	51927	8200	CASE, FWD HPC	351-104-011-0	DE165915	51927	8200	25380	17180
	13	GE90-100	51927	8200	CASE, COMBUSTOR	2082M19G04	GEVKWALE	51927	8200	18400	10200
	14	GE90-100	51927	8200	CASE, STATOR HPT	2082M18G02	FCP59W44	51927	8200	13000	4800
	15	GE90-100	51927	8200	SEAL, AFT HPT	1865M17P02	XAE83302	51927	8200	15000	6800
	16	GE90-100	51927	8200	DISK, STG 2 HPT	1865M14P02	GWN0GM84	51927	8200	15000	6800
	17	GE90-100	51927	8200	SEAL, INTERSTAGE HPT	2505M72P01	GWN0WHF6	26493	4100	15000	10900
	18	GE90-100	51927	8200	SEAL, FWD HPT	1865M19P02	NCE886DF	58836	6954	9000	2046
	19	GE90-100	51927	8200	DISK, STG 1 HPT	2445M04G08	GWN0GWD7	51927	8200	14300	6100
	20	GE90-100	51927	8200	DISK, STG 6 LPT	1765M30P01	FIAAV2LH	51927	8200	15000	6800
	21	GE90-100	51927	8200	DISK, STG 5 LPT	2209M28P01	IHIY0418	51927	8200	15000	6800
	22	GE90-100	51927	8200	SHAFT, CONE LPT	2209M29G01	IHIDA437	51927	8200	15000	6800
	23	GE90-100	51927	8200	DISK, STG 4 LPT	2209M27P02	IHIW0407	51927	8200	15000	6800
	24	GE90-100	51927	8200	DISK, STG 3 LPT	2209M26P01	IHIV0512	51927	8200	15000	6800
	25	GE90-100	51927	8200	DISK, STG 2 LPT	2209M25P01	IHIU0492	51927	8200	15000	6800
	26	GE90-100	51927	8200	DISK, STG 1 LPT	2209M24P01	IHIRO485	51927	8200	15000	6800
	27	GE90-100	51927	8200	CASE, STATOR LPT	2082M85G02	WINS17KW	51927	8200	24800	16600
	28	GE90-100	51927	8200	SHAFT, FAN MID	2209M11G03	IHINS412*	51927	8200	15000	6800

Annex "B" (ESN 906151)

GE90 ENGINE WORKSCOPE DATA	
ESN	906-151
ENGINE TYPE	GE110
Aircraft	BGZ
Position	2
Reason of Removal	T/X LLP
Date of Removal	04-04-24
ECSN	11499
ETSN	62010
CSLSV	3899
TSLSV	22255
CSO (HOT SECTION)	3899
TSO (HOT SECTION)	22255

S/N	ESN	MOD (CODE)	NOMENCLATURE	Workscope Required	Remarks
1	906-151	(21X/A)M21	FAN BOOSTER ASSY	Level 4	
2	906-151	(22X/B)M23	NO.1-2 BRG/ASSY	Level 4	
3	906-151	(61X/U)M32	IGB	Level 4	
4	906-151	(62X/V)M33	TGB	Level 4	
5	906-151	(31X/E)M51	HPC ROTOR	Level 4	
6	906-151	(32X/F)M52	HPC STATOR	Level 4	
7	906-151	(41X/F)M45	Combustor Diffuser	Level 4	
8	906-151	(410)M54	COMBUSTOR	Level 3	
9	906-151	(51X/T)M55	ST1 NOZZLE	Level 3	
10	906-151	(52X/L)M56	ST2 NOZZLE	Level 4	
11	906-151	(53X/M)M57	HPT ROTOR	Level 4	
12	906-151	(54X/N)M58	TCF ASSY	Level 4	
13	906-151	(56X/T)M61	LPT ROTOR/STATOR	Level 4	
14	906-151	(57X/S)M63	TRF ASSY	Level 2	
15	906-151	(58X/T)M64	LPT MID-SHAFT	level 2	
16	906-151	(64X/W)M71	AGB ASSY	Leve 3	

NOTES:

- 1 Engine to be built for stub life of Fan Mid Shaft with minimum life of 3501 cycles.
- 2 All open ADs to be complied.
- 3 Consult engine last shop visit document for details of work done during the visit on each module.
- 4 Rework LLPs if applicable for enhancement of their life subject to extent of disassembly of module.
- 5 All accessories to be repaired as per GE90-100 Engine WSPG
- 6 Used LLPs to be installed for replacement to match engine build life.

Important SBs:

In additions to other Mandatory/Recommended SBs, comply the following SBs in case of applicability.
72-0676, 80-0031, 72-0686, 80-0016



**Technical Services Engineering
Power Plant Overhaul Division
PIA Engineering & Maintenance
ENGINES LLP STATUS**

ESN	S/N	Eng. Type	CURRENT ENGINE TSN	CURRENT ENGINE CSN	Nomenclature	PART NO.	PART SR NO.	PARTTSN CURRENT	PART CSN CURRENT	CYCLES LIMIT	CYCLES REMAIN
906-151	1	GE90-100	62010	11499	DISK, STG 1 FAN	2032M68G01	GWN08F28	63078	11453	15000	3547
	2	GE90-100	62010	11499	SPOOL, BOOSTER	351-200-006-0	BC231407	63078	11453	15000	3547
	3	GE90-100	62010	11499	SHAFT, FAN FWD	2209M10G02	IHIDL061	62010	11499	15000	3501
	4	GE90-100	62010	11499	CASE, EXTENSION HPC	351-100-110-0	LA124398	62010	11499	14000	2501
	5	GE90-100	62010	11499	BLISK, STG1 HPC	351-101-011-0	BC478949	65985	12022	15000	2978
	6	GE90-100	62010	11499	SHAFT, CONE HPC	351-102-905-0	DB960360	62010	11499	15000	3501
	7	GE90-100	62010	11499	SPOOL, STG 2-5 HPC *	351-103-110-0	PC093754	33094	6093	8200	2107
	8	GE90-100	62010	11499	DISK, STG 6 HPC	351-100-904-0	BC293511	62010	11499	11500	1
	9	GE90-100	62010	11499	SPOOL, STG 7-9 HPC	2032M23G02	GWN0T4PM	33094	6093	11800	5707
	10	GE90-100	62010	11499	RING, TUBE SUPPORTER	351-101-103-0	DB960495	62010	11499	15000	3501
	11	GE90-100	62010	11499	SEAL, CDP ROTATING	2479M03P01	GEE1GWGL	33094	6093	15000	8907
	12	GE90-100	62010	11499	CASE, FWD HPC	351-104-012-0	DJ948096	33094	6093	25380	19287
	13	GE90-100	62010	11499	CASE, COMBUSTOR	2082M19G01	CDAC9521	62010	11499	18400	6901
	14	GE90-100	62010	11499	CASE, STATOR HPT	2082M18G02	FCP57K9L	62010	11499	13000	1501
	15	GE90-100	62010	11499	SEAL, AFT HPT	1865M17P02	XAE83029	62010	11499	15000	3501
	16	GE90-100	62010	11499	DISK, STG 2 HPT	1865M14P02	GWN095AN	62010	11499	15000	3501
	17	GE90-100	62010	11499	SEAL, INTERSTAGE HPT	2448M33P01	GWN0PWWC	37883	6852	15000	8148
	18	GE90-100	62010	11499	SEAL, FWD HPT	1865M19P02	NCE105JN	35457	6345	9000	2655
	19	GE90-100	62010	11499	DISK, STG 1 HPT	2445M04G09	GWNOHE4N	47841	7002	14300	7298
	20	GE90-100	62010	11499	DISK, STG 6 LPT	1765M30P01	FIAAN03G	62010	11499	15000	3501
	21	GE90-100	62010	11499	DISK, STG 5 LPT	2209M28P01	IHIY0052	62010	11499	15000	3501
	22	GE90-100	62010	11499	SHAFT, CONE LPT	2209M29G01	IHIDA073	62010	11499	15000	3501
	23	GE90-100	62010	11499	DISK, STG 4 LPT	2209M27P02	IHIW0085	62010	11499	15000	3501
	24	GE90-100	62010	11499	DISK, STG 3 LPT	2209M26P01	IHIV0080	62010	11499	15000	3501
	25	GE90-100	62010	11499	DISK, STG 2 LPT	2209M25P01	IHIU0077	62010	11499	15000	3501
	26	GE90-100	62010	11499	DISK, STG 1 LPT	2209M24P01	IHIRO110	62010	11499	15000	3501
	27	GE90-100	62010	11499	CASE, STATOR LPT	2082M85G02	FCP57GTR	62010	11499	24800	13301
	28	GE90-100	62010	11499	SHAFT, FAN MID	2209M11G03	IHIN5044*	52444	9746	15000	5254

Annex-“C”

GE90-100 Engine Routine Modules Fixed Labor Charges

ATA	Module	Nomenclature	LEVEL2	LEVEL 3	LEVEL4
72-21	M21	FAN BOOSTER ASSY			
72-22/26	M23/M24	NO.1-2 BRG/ASSY			
72-61	M32	IGB			
72-62	M33	TGB			
72-31	M51	HPC ROTOR			
72-32	M52	HPC STATOR			
72-40	M45	Combustor Diffuser			
72-41	M54	COMBUSTOR			
72-51	M55	HPT ST1 NOZZLE			
72-52	M56	HPT ST2 NOZZLE			
72-53	M57	HPT ROTOR			
72-54	M58	TCF ASSY			
72-56	M61	LPT ROTOR/STATOR			
72-57	M63	TRF ASSY			
72-58	M64	LPT MID-SHAFT			
72-64	M71	AGB			

CORRIGENDUM TENDER NOTICE

It is to inform all potential bidders that Closing dates of following PIA Tenders have been extended up-to **08 JULY 2024**.

- 1. Tender Ref: GMCM/GE-90/Lease/Purchase/01/2024**
"Lease/Purchase of GE90-115B Quantity two (02) or more and GE90-94B engines Quantity two (02) or more"
- 2. Tender Ref: GMCM/CFM56-5B/LEASE/01/2024**
"Lease of CFM56-5B4/P or CFM56-5B4/3 engines Quantity 08(Eight) or more"
- 3. Tender Ref: GMCM/LG Shipset/B777/05/24**
"EXCHANGE OF B777 LANDING GEAR SHIPSET installed on Three PIA B777-200ER (AP-BMG, AP-BGJ, and AP-BMH) Fleet"
- 4. Tender Ref: GMCM/GE-90/Repair & Overhaul/01/2024**
"Repair & Overhaul of GE90 Series Engines installed on PIA CL B-777 Fleet"
- 5. Tender Ref: GMCM/B777/Components/01/2024**
"Support on Flight Hour Basis for PIA B777 Fleet Aircraft Specific Number of Components"

Above Tender dates may now be read as **08 JULY 2024**.

The subject Tenders will be now be opened on 08 JULY 2024 at 1100 Hrs (PST).

for

Pakistan International Airlines

GM Contract Management

Supply Chain Management

PIA Head Office Karachi.

Tel: +9221 9904216 - 5277

Email: gm.cm@piac.aero

contract.tech@piac.aero

INVITATION TO BID

Tender Ref: GMCM/CFM56-5B/LEASE/01/2024

1. Pakistan International Airline (PIA) invites quotations through EPADS and sealed bids from renowned (Eligibility as per Bidding Documents) Vendors on "Single Stage Two Envelope Basis" for ["Lease of CFM56-5B4/P or CFM56-5B4/3 engines Quantity 08\(Eight\) or more"](#).
2. Bidding documents containing detail terms and conditions, etc. are available electronically and can be downloaded from
3. PIACL Website <https://www.piac.com.pk/corporate/sales- procurement/tenders>
4. PPRA Website <https://www.ppra.org.pk/active-tenders>
5. EPADS-PPRA website <https://www.eprocure.gov.pk> through Supplier Login
6. Bids should be submitted electronically through EPADS.
7. The bids must be prepared in accordance with the instruction in the bidding documents and must be submitted by **24-06-2024** on/before 10:30 AM. Bids will be opened on the same day at 11:00 AM.
8. Hard Copies of bids along with Original Bid Security instrument **MUST BE** submitted to the undersigned before above given deadline.

Pakistan International Airlines

GM Contract Management Division

**1st Floor, Supply Chain Management Department
Building, [PIACL], Head Office Karachi Airport-75200
Pakistan**

Tel: +92-21-99044216 / 5277

E-mail. gm.cm@piac.aero / contract.tech@piac.aero

Website: <http://web.piac.com.pk/>

IMPORTANT NOTES

Bidding documents, containing detailed terms and conditions, etc. are available and can be downloaded from PIA Website <https://www.piac.com.pk/corporate/sales-procurement/tender> as well as from E-PADS PPRA web site www.eprocure.gov.pk free of cost. Bidders need to get registered at E-web portal of E-PADS PPRA (**Federal**) to access the tender document and other relevant information including electronic bid submission. In case of any help regarding EPADS online submission Mr. Wali Sohaib Najeeb Cell No. +92 345 9897000 and email auditcell.scm@piac.aero and contract.tech@piac.aero may be contacted.

Bids should be submitted electronically ONLY through EPADS PPRA web portal. Manual submission of bid, without EPADS electronic bid is NOT acceptable. For registration and training on EPADS or in case of any technical difficulty in using EPADS, prospective bidder/s may contact Mr. Rizwan Mehmood, Director MIS Room No.109, 1st Floor, FBC Building Sector G-5/2, Islamabad or Helpline Contact No. 051-111-137-237.

The bids prepared in accordance with the instructions in the bidding documents must be submitted through EPADS web portal by closing time & date mentioned in the tender document. Bids will be opened on the same day at 11:00 AM through EPADS.

All interested bidders must register themselves at EPADS by using link: <https://eprocure.gov.pk/#/supplier/registration>

Original Bid Security and Tender Fee instrument MUST BE attached with the Technical Proposal and the reference / PayOrder copy must be submitted through EPADS online submission as well, before Tender Closing Date & Time (For Local Bidders only).

Note for International Bidders

International Suppliers/Vendors/Bidders are requested to register on EPADS if for assistance to get registered contact PIA Focal EPADS Mr. Wali Sohaib Najeeb Cell No. +92 345 9897000 and email auditcell.scm@piac.aero and contract.tech@piac.aero.

In the event that Foreign bidders are unable to register on an EPAD, manual bids (subject to company management approval) may be submitted; but, in compliance with PPRA instructions, all bidders, whether local and foreign, must subsequently register on EPADS.

For Manual submission either hard copies or electronic copies can be submitted on the following addresses.

For Electronics Bids Submission:

Electronic Bids must be password protected and password of the bids is requested to be sent 30 minutes on or before the tender closing time that is 10:30 AM (Pakistan Standard time) on the email: dgmpm@piac.aero .
Electronics Bids submission intimation should be sent on email: contract.tech@piac.aero .

For Bids (Hard Copies) Submission:

GM Contract Management
Supply Chain Management
PIA Head Office, Karachi
Tel: 021 – 9904 4216, 9904 5277
Email: gm.cm@piac.aero
contract.tech@piac.aero

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General Instructions:

1. The scope of the requirement is:

Bidders are invited to submit a Technical Proposal and a Financial/Commercial proposal for each offered engine required as per the requirements detailed in the bidding documents.

By submitting a Proposal, the Bidder agrees to be legally bound by the terms and conditions set out in this Bidding Document. The Proposal will be considered as a binding offer from the Bidder subject to acceptance by PIA.

2. 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 that it receives earlier than **five (5) days before the deadline** for the submission of the bid. For clarification on bidding document please email to mesca1@piac.aero, piaplng@piac.aero, khimapk@piac.aero, and contract.tech@piac.aero

3. Submission of Bid

Interested bidders will have to submit their offer by any of the two method options described below:

- In sealed envelopes, submitted either in person or through courier.

The offer should be clearly marked as Bid for **"Lease of CFM56-5B4/P or CFM56-5B4/3 engines Quantity 08(Eight) or more"**.

4. Tender Proceedings

Single stage – Two-envelope procedure. -

Each bid shall comprise two separate envelopes, one for technical and other for financial proposals (both sealed envelopes can be placed in a single sealed envelope for the ease of courier).

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

Bidders will be required to submit the 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.
 - b) **Technical Information:** The information is as per 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 the 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 in 'Annex – III' which is a mandatory requirement of Government of Pakistan.
 - e) **Support Package:** An additional Support Package, a web-based link to access mini pack (technical details) of each offered engine may be provided.

In preparing the Technical Proposal, Bidders are expected to examine the documents constituting Bidding Documents in detail. Deficiencies in providing the information requested may result in the rejection of a proposal.

- ii) **Financial Proposal:** The Financial proposal should be submitted in line with the requirements highlighted in the Bidding Document and as per the Schedule of Prices in the format described in Annex 'IV'. In preparing the Financial Proposal, Bidders are expected to consider the requirements and conditions outlined in the Bidding documents. The Financial Proposal should list all associated costs. Proposals must remain valid for 90 days after the submission date. PIAC will endeavor to complete discussions/clarifications within this period. However, if necessary, PIAC may require an extension in the said validity period.

5. Deadline for Submission of Bids:

Bids must be Electronically submitted through PPRA Federal EPADS/received at the following PIACL address no later than the Date and Time mentioned in the advertisements published in the media and mentioned above (24-06-2024). Bids will be opened the same day at the specified time.

General Manager Contract Management

Supply Chain Management

Pakistan International Airlines

JIAP, Karachi.

Phone: +92 21 9904 4216 / +92 21 9004 5277

Email: contract.tech@piac.aero

6. Opening of Bids:

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

7. Bid Read Out:

Following details shall be provided clearly by each bidder and shall be read out in front of all the participants present during the bid opening:

- Bidder's Name
- Engine Serial Number offered.

Mandatory / Special Requirements

1. Agreement

- a) Lease Agreement will be in accordance with IATA Master Short Term agreement for lease.

2. Lease Term

In general the Lease Term for Lease is set as 11 months. However, lease term of more than 11 months may also be offered depending on the condition of engine.

3. Note for Bid Validity

The Bid Validity is 90 days. However, keeping in view of market conditions, it will not be a binding on the parties to hold their assets. Parties are requested to communicate if their offered engine is being sold / leased to other parties. PIA will make its best endeavors to finalize the evaluation, select the engine and enter into agreement at the earliest possible time frame.

4. Fleet & Usage Information:

PIA is the National Airline of Pakistan. PIA A320 fitted with CFM56-5B4/P and CFM56-5B4/3 engines,

PIA A320 Fleet mainly operates between Saudi Arabia & Middle East regions etc

5. Preservation Requirement:

The offered Engine/s must be preserved as per AMM Instructions

6. TAG / Release Requirement:

EASA Form 1 or FAA form 8130 or TCCA Form One or CAA UK Form 1 release are accepted documents for inspection and release of Engines for installation.

7. Documentation Access

Mini pack link comprising engine details is to be submitted on the following emails: mesca1@piac.aero, piaplng@piac.aero, khimapk@piac.aero, and contract.tech@piac.aero

All documentary details, records and BSI details, and reports must be available.

8. Regulatory Requirements:

PIA is regulated by PCAA Pakistan Civil Aviation Authority <http://www.caapakistan.com.pk/> which is a public sector autonomous body working under the Federal Government of Pakistan.

9. Trolley Requirement:

Engines must be offered in OEM recommended Shipping Stand. All prices for Lease are to be quoted inclusive of the shipping stand.

ANNEX -I (A)

1. Technical Evaluation Criteria

Following Criteria will be used for Technical Evaluation. Separate Sheet may be filled / marked for each offered Engine. The marking should be according to data provided in Mini pack/details of the record. The actual Mini pack / Record data will be considered as final for evaluation:

For Each offered Engine, Bidder should fill / Tick the following:

SUBMITTED BY (Name of Bidder/lessor) _____

ENGINE SERIAL NUMBER _____ ,

Technical Evaluation Criteria for Lease of CFM56-5B Engines

S.NO	Criteria	Weightage	Score
1	1) EGT Margin: (max marks will be given to the bidder whose engine EGTM>70). Grading will be done based on Mini pack / Data provided	30	
	EGTM ≥70 Deg C	30	
	EGTM 60-70 Deg C	27	
	EGTM 50-60 Deg C	24	
	EGTM 40-50 Deg C	18	
	EGTM 30-40 Deg C	12	
2	Cycles Since Last Overhaul: (Full Overhaul/Performance Restoration): max marks will be given to the bidder whose engine CSLSV < 1000 Cycles). Grading will be done based on the Mini pack / Data provided	30	
	CSLSV ≤ 1000 Cycles	30	
	CSLSV ≤ 2000 Cycles	24	
	CSLSV ≤ 3000 Cycles	18	
	CSLSV ≤ 4000 Cycles	15	
	CSLSV ≤ 5000 Cycles	12	
	CSLSV ≤ 6000 Cycles	9	
	CSLSV ≤ 7000 Cycles	6	
3	LLP First Limiter Remaining Life: Max marks will be given to the bidder whose engine	15	
	Remaining ≥ 6K cycles	15	
	Remaining 6K-5K cycles	12	
	Remaining 5K-4K cycles	9	
	Remaining 4K-3K cycles	6	

	Remaining 3K-2K cycles	4.5	
	Remaining 2K-1.2K cycles	3	
4	BSI Observations: Weightage 10%	10	
	Nil Observation	10	
	Number of Observation ≤ 2	8	
	Number of Observation 2-5	6	
	Number of Observation 5-8	2	
	Engine with restriction	1	
		Oil Consumption: Weightage 10%	10
5	0-0.05 Qtz/hr	10	
	0.05-0.10 Qtz/hr	9	
	0.10-0.15 Qtz/hr	8	
	0.15-0.20 Qtz/hr	7	
	0.20-0.30 Qtz/hr	6	
	0.30-0.40 Qtz/hr	5	
	0.40-0.50 Qtz/hr	4	
	0.50-0.60 Qtz/hr	2	
		Compliance of Critical SB /AD	5
6	Complied	5	
	Major Complied	3	
	Partially complied	2	
	To be Complied	1	
	Total	100	

Marks will be calculated as per the following formula:

Obtained Marks (Score) = (Best Offer / Bidder's offer) X weightage

ANNEX -I (B)**2. Financial Evaluation Criteria**

Following table will be used for submission of financial offers.

Financial Evaluation Criteria for Lease CFM56-5B Engines

S.NO	Criteria	Unit	Weightage	Score
1	Daily Rent	USD	15	
2	Use Fee Rate (Hourly)	USD		
a)	For: $1.6 \leq \text{Hrs/Cycle Ratio} < 1.8$ (weightage 10)		4	
b)	For: $1.8 \leq \text{Hrs/Cycle Ratio} < 2.0$ (weightage 45)		15	
c)	For: $2.0 \leq \text{Hrs/Cycle Ratio} < 2.2$ (weightage 35)		8	
d)	For: $2.2 \leq \text{Hrs/Cycle Ratio} < 2.4$ (weightage 10)		4	
3	Use Fee Rate (Cyclic)		12	
4	Security Deposit	USD	4	
5	Transportation Location: Please write city/country or region: eg. USA / Europe / Far East / Others etc Please mention Delivery Location _____ and Re-delivery/Return Location _____ (PIA Logistics will estimate rates for this arrangement and the same will be accounted for in the financial impact)	USD	3	
6	Lease term (Minimum six 06 months) *Full marks will be given who offered the engine for 11 months	Term	4	
7	Invoicing			
a)	Security Deposit and Rental will be on an advance basis	Agree/Not Agree	4	
b)	The Monthly Use Fee will be on Net 30 of invoicing	Agree/Not Agree	4	
8	Escalation in prices if the lease term exceeds	%	3	
9	No daily rental fee applicable till receipt of the engine at the PIA facility	Agree/Not Agree	5	
10	After removal of the engine 15days of no rental fee will be provided to PIA to complete all requirements of re-delivery and dispatch of the engine to the service provider facility	Agree/Not Agree	5	
TOTAL			90	

NOTE: All prices will remain fixed for offered lease term

Marks will be calculated as per following formula:

Obtained Marks (Score) = (Best Offer / Bidder's offer) X weightage

4. 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 = 40%

FEW = Financial Evaluation Weightage = 60%

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

ANNEX- II

Form of Bid

Date: _____

Ref:

To: General Manager Contracts Management
Pakistan International Airlines

Dear Sir,

Having examined the Bidding Documents, we, the undersigned, offer proposal for "Lease of CFM56-5B engine" for PIA Aircraft under the tender reference "Lease of CFM56-5B Engines" 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 exchange 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 ___ day of ____, 2024

Signature of Authorized Person

Name : _____

Position: _____

Official Seal

Annex - III

Integrity Pact

[Name of Supplier] 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 Supplier] 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 Supplier] 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 Supplier] 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 Supplier] 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 Supplier] 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.

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