Office of the Director General of Civil Aviation
Technical Centre, Opposite Safdarjung Airport
New Delhi - 110003

TENDER   NOTICE
F.N. 15-3/2009-RD

Subject: - <u>Procurement of a system of Hardware and Software required for downloading, decoding, playing and analysing of Flight Recorders.</u>

TERMS & CONDITIONS

1. GENERAL:

Quotations are invited in sealed envelopes from the reputed Indian/ foreign manufacturer/ agents/ dealers to supply the above mentioned items to Flight Recorder Lab of DGCA, New Delhi. The complete details of the software and hardware (system) and its Technical specifications are available in <u>Annexure – I</u> to this tender.

2. SUBMISSION OF OFFERS:

A. The quotation should be submitted directly by the original manufacturer or its authorized dealer.

B. The quotation should be submitted in a sealed cover with a superscription that Tender for **Procurement of a system of Hardware and Software required downloading, decoding, playing and analyzing of Flight Recorders** and addressed to Shri R.CHINNADURAI, Dy. Director General (R&D), Director General of Civil Aviation, Opp. Safdarjung Airport New Delhi - 110003.

C. Quotation/ offer should be submitted in two separate sealed envelopes containing Techno-Commercial bid and Price bid <u>(must be filled in Annexure III)</u>, and these put in another sealed envelope.

D. The **Techno-Commercial Bid/ offers** must contain the Technical Leaflets / literature and complete specifications of the quoted model(s) of the item along with commercial terms & conditions.

3. DUE & OPENING DATES:

The Offer / Quotations must reach this office within twenty five days from the date of advertisement in news papers and up to 1600 HRS of the last working day. The Quotations/Technical bids will be opened at 11.00 A.M on next working day in the presence of bidders, who wish to present themselves at the time of opening of tender. The price bids of two bid tender system shall be opened after technical evaluation of technical bids. The date of opening of price bids shall be informed to the bidders found suitable in technical evaluation.

4. NO ADVANCE PAYMENT:

No advance payment will be made to any supplier.

5. Documents to be attached to tenders:

The following particulars should also be furnished by the Indian Agents/ foreign developers/manufacturers:

1. The precise relationship between the Manufacturer / Principal and their Indian Agents. In this regard, a certificate from M/s Honeywell USA must be attached stating that the supplier is authorized agents/ dealer for the Honeywell made hardware / software.
2. Attested copy of DGS & D registration certificate, if applicable.
3. Copy of Registration with Sales Tax department.
4. Evidence to show the system in full or in part functioning in any airline or govt. bodies. A certificate of satisfactory functioning shall be desirable.
5. Brochures/manuals of the software may be attached with the tender document.
6. Identity proof of the supplier/ proprietor/ Karta/ POA holder.

6. PRICES:

A. The prices should be quoted F.O.R at destination in Indian Rupees inclusive of packing, forwarding, handling, insurance, documentation, installation, integration of bought out items, commissioning and training etc. and all taxes. The tenderer should clearly indicate the break-up of prices viz. Net F.O.B/F.A.S. value, insurance, freight, integration of BOIs supported by manufactures.
B. Custom clearance, if any and all necessary procedures have to be followed by Vendors including meeting of financial implications.
C. Any increase or decrease in the custom duty by the reason of the variation in the rate of exchange or any other reason will not be entertained.

7. REASONABILITY OF PRICES:

Please quote best minimum prices applicable for a Research institution leaving no scope for any further negotiations on prices.

8. SPECIFICATIONS:

Technical specifications are given at Annexure – I. Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/ literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected / supported by the printed technical leaflet/literature. Therefore the model quoted invariably be highlighted in the leaflet/literature enclosed with the quotation. Non-compliance of the above shall be treated as incomplete/ ambiguous and the offer can be ignored without giving an opportunity for clarification / negotiation etc. to the quoting party.

9. ANNUAL MAINTENANCE CHARGES:

The party must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract for three years after the expiry of the warranty/ Guarantee period. This is mandatory to mention.

10. COMPLIANCE STATEMENTS:

A. Bidders must submit the duly filled in Compliance Statement of Technical specifications with each point as required and as given in <u>Annexure - II</u> of our tender. The deviations, if any, from the tendered specifications should be clearly brought in the statement. Technical literature/ leaflet showing the compliance of the specification may be attached with the quotation.
B. <u>Annexure III</u> is given for quoting the price bid.
C. The firms are advised to submit both the compliance statements essentially along with their quotation failing which their offer may not be considered.

11. PERIOD OF DELIVERY:

The delivery period is the essence of supply; hence it must be indicated specifically in the quotation.

12. PAYMENT CONDITION:

No advance payment will be made. The payment will be made only after satisfactory installation, commissioning, training and performance of the equipment at "Flight Recorder Lab, DGCA, New Delhi and after certification by our technical expert.

13. COMMENCEMENT OF WARRANTY PERIOD:

The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation/ commissioning/ demonstration at the lab site in DGCA, New Delhi. The warranty period shall be extended for the period of delay in satisfactory installation and delay in warranty services.

14. INSTALLATION:

The equipment should be installed/ commissioned and demonstrated, by the supplier at the lab immediately but in any case within one month after receipt of the item in the lab and the same will be put under operation to the satisfaction of our technical expert who will test the performance of the equipment. No separate charges for installation etc. will be paid to the party beyond the quoted prices.

15. GUARANTEE:

a)   The entire product must be guaranteed/ warranted for a period of at least one year   from the date of its satisfactory installation against all   manufacturing defects. If   the equipment is found defective during this period the whole

equipment or part   thereof will have to be replaced/ repaired by the supplier free of cost at the lab.   or   at site of the supplier for which 'to and fro' expenses will be borne by the supplier.

b)   Guarantee that they will supply the spare parts, if and when required on agreed basis for an agreed price. The agreed basis could be and including but without limitation an agreed discount on the catalogue price or an agreed percentage of profit on landed cost.

c)   Warranty to the effect that before going out of production for the spare parts they will give adequate advance notice to the purchaser of the equipment so that the later may undertake the balance of lifetime requirements.

16. After Sales Services:

It should be clearly mentioned in the quotation whether the after sales services during and after the completion of warranty shall be provided directly by the supplier or their authorized agent/ representative. Terms of the after sales services, if any, may be mentioned in the offer. The supplier will give an undertaking for the after sales service of the combined product for a period of seven year from the date of installation and satisfactory functioning in non judicial stamp paper duly attested by a Govt. approved Notary.

17. Inspection:

The inspection of the system will be done by our technical expert in the presence of firm representative, at the lab site.

18. Users List:

The list of user s of the product in full or in part along with the complete name, address & contact numbers of the user organizations/persons may be submitted with the quotation along with the performance certificates from all/some of them.

19. Training:

Officers of the Flight Recorder Laboratory of this office should be trained by the supplier at the manufacturer's facility for operation and maintenance of the system free of cost.

20. VALIDITY OF OFFER:

Your quotation shall remain open for acceptance for six months from the date of opening of the Tender. No changes in prices will be acceptable in any condition after opening of tender till the validity of the offer or execution of the order whichever is later.

21. Late / Delayed / Unsolicited Quotation:

Late or delayed/ unsolicited quotations/ offers shall not be considered at all. Post tender revision / corrections shall not be considered.

22. Acceptance or Rejection of offer:

This office reserves the right to accept or reject or postpone any quotation/ tender in part or full without assigning any reasons thereof.

23. Page numbering & signatures:

Your offer should be a page numbered and signed by an authorized signatory giving his / her name below the signature.

24. Interim Enquiries:

No interim enquires will be entertained.

N.B
Tenderers which do not comply with the above stipulations are liable to be ignored.

(R. CHINNADURAI)
DDG (R&D)
O/o DGCA

<u>Technical Specification</u> for procurement of RPGSE, a system of Hardware and software required to download, decode, play and analyze flight recorders:

1.0 <u>Recorders:</u>

RPGSE, a system of Hardware and software should be able to download, decode, play and analyse particularly the following types of Honeywell made recorders:

--- Solid State Flight Data Recorder (SSFDR)
--- Solid State Cockpit Voice Recorder (SSCVR)
--- Advanced Recorder Flight Data Recorder (ARFDR)
--- Advanced Recorder Cockpit Voice Recorder (ARCVR)
--- Advanced Recorder Combination of both recorders (AR COMBI)
--- Digital Voice and Data Recorder (DVDR)

2.0 <u>Hardware and Software Required :</u>

This office needs a comprehensive system of hardware and software which should cater to all family of recorders listed above. A comprehensive list of various hardware and software required for the said purpose is given below:

S.N.	Part No.	Description	REQUIRED FOR					
			SSFDR	SSCVR	ARFDR	ARCVR	AR COMBI	DVDR
1	952-0035-002	RPGSE Base Unit	YES	YES	YES	YES	YES	YES
2	964-0035-XXX	HHDLU	YES	--	YES	--	YES	YES
3	998-3415-504	Software, HATS for SSCVR & DVDR	--	YES	--	--	--	YES
4	998-3416-501	Software, HATS for AR Recorder	--	--	YES	YES	YES	--
5	998-3417-504	Software, HATS for SSFDR	YES	--	--	--	--	--
6	998-3412-501	Software FDR Data Download into RPGSE	YES	--	YES	--	--	YES
7	998-3413-501	Software for DVDR Decryption for RPGSE	--	--	--	--	--	YES
8	998-3414-504	Software, Play Back-32 for RPGSE	--	YES	--	YES	YES	YES
9	998-3249-503	Software,	YES	--	--	--	--	YES

10	--	ADRAS-32 Software, ADRAS-ON-BOARD	--	--	--	--	--	--
11	704-2863-002	ATP Cable for SSCVR & DVDR	--	YES	--	--	--	YES
12	704-2863-021	ATP Cable for SSFDR	YES	--	--	--	--	--
13	704-2863-041	ATP Cable for AR series Recorders	--	--	YES	YES	YES	--
14	704-2864-001	Cable for DVDR/AR series Data Download	--	--	YES	--	--	YES
15	704-2864-021	Cable for SSFDR Data Download	YES	--	--	--	--	--

2.1 RPGSE Base Unit (P. No. 952-0035-002):

RPGSE (Recorders Portable Ground Support Equipment) should be a single common ruggedised portable personal computer designed to support all the Honeywell family of solid state recorders as mentioned above. It should host various ground support tools which are generally needed for functional download, test, play back and data analysis of various solid state recorders depending upon the software applications installed in the RPGSE. Various functions of RPGSE should include the following:

- RPGSE should have a configurable design that should allow the customer to select optional software applications and cables to support more than one recorder.
- To performing Return-to-Service Test.
- To performing Flight Data Download, while the FDR is on or off the aircraft for rapid data download.
- To performing audio data download, decompression and playback.
- To perform Real-time analysis of ARINC data.

RPGSE platform should be able to use following software applications:

- ADRAS for Windows (32 bit version)
- SSFDR Download (DLU)
- SSFDR Acceptance Test Unit (ATU)
- SSCVR Playback, Analysis and Test Station (PATS) – Playback -32
- AR Series Recorder support
- AT COMBI Recorder support
- ARINC 615-4/615A Portable Data Loader.

RPGSE system should have the following minimum standard features:

- 12.1 LCD with 800*600 resolutions.
- PCMCIA card slot for accommodating two type II or one type III card.
- One RS-232 serial port.

- Intel Pentium II CPU.
- 32 bit Personal Computer Interface (PCI) bus.
- Windows 2000 operating system
- Accessory port and removable Floppy disk drive and CD-ROM.
- Ethernet network port.
- DC power port with AC to DC converter for 115/230VAC, 47-63 Hz, input to 22.5 VDC output.
- Expansion chassis with Shock Resistant Bumpers.
- Rubber keypad and touchpad.
- RPGSE computer to include an audio card, speaker and speaker jack.
- RPGSE to includes PC interface for transferring data e.g. USB, Serial Interface, CD-ROM.

2.2 HHDLU (P. No. 964-0035-XXX):

HHDLU (Hand Held Download Unit) should be a compact, portable flight line support tool for accomplishing on-aircraft tasks such as SSFDR memory readout, SSFDR built in test fault history readout and selective monitoring of incoming parameters from FDAU.

HHDLU to get connected the SSFDR via front penal connector of the recorder while SSFDR remains installed in the aircraft. HHDLU contains a removable mass storage device which is capable of storing the entire recording memory contents of SSFDR. This device should be compatible with commercially available personal computers, thereby providing an efficient and cost effective method of transferring the data from HHDLU to other ground based tools such as SSFDR's test station or a dedicated analysis computer.

2.3 Software HATS for SSCVR and DVDR (P. No. 998-3415-504):

HATS (Honeywell Automated Test Software) should be a software application that should perform return-to-service test for SSCVR and DVDR recorders. This should be installed in the RPGSE to perform tests on SSCVR and DVDR.

2.4 Software HATS for AR Recorder (998-3416-501):

HATS (Honeywell Automated Test Software) should be a software application that performs return-to-service test for AR series recorders. This should be installed in the RPGSE to perform tests on AR recorders.

2.5 Software HATS for SSFDR (P. No. 998-3417-504):

HATS (Honeywell Automated Test Software) should be a software application that performs return-to-service test for SSFDR recorders. This should be installed in the RPGSE to perform tests on SSFDR recorders.

2.6 Software, FDR data Download into RPGSE (P. No. 998-3412-501):

This should be software, which is used to download flight data from FDRs to the RPGSE. This software to enable the downloading of the data without removing the FDR unit from aircraft.

2.7 Software, for DVDR decryption into RPGSE (P. No. 998-3413-501):

This should be a software application, which is able to decrypt the recorded flight data to ensure secure readout of the DVDR PCMCIA card.

2.8 Software, Play Back 32 for RPGSE (P. NO. 998-3414-504):

Play Back – 32 should be a software package that enables decompression and play back of the recorded audio data. This software should also enable decoding of optional rotor speed and GMT/FSK time indication. It can support and play back up to 4 audio channels.

2.9 Software ADRAS – 32 (P. No. 998-3249-503):

Aircraft Data Recovery and Analysis Software (ADRAS-32) should be a software package that should enables to perform analysis of flight data parameters copied from the solid state FDR memory. This programme should operate on the RPGSE or any other PC based equipment running in a MS Windows 2000 or XP environment. The Windows user interface should provides an easily understood menu driven readout and analysis tool that require minimal operator training. ADRAS-32 should also support export of flight data to other third party application. ADRAS-32 should be a full featured analysis tool which performs readout of flight data parameters, as well as reconstruction of the data into a variety of formats, useful in the analysis process:

- Display Formats should include both tabular listings and analog (strip charts) presentation
- Results should be viewed on the computer screen, printed and/or stored as a disk file
- Logical search features should enable the operator to search for and display specific events
- Control features should enable the operator to zoom in on details or switch display formats
- A data base construction and editing tool should enables operator modification of parameters table.

2.10   Software ADRAS On Board:

ADRAS On board (AOB), should be software that converts in real time ARINC 717 FDR incoming data into human readable engineering units, by using conversion data algorithms developed for the particular aircraft type being analyzed and display the data in a readable format. In addition, this application should also allow the operator to select and store specific configuration parameters for ease of initialization during the application's next usages. In addition, this software should be enabled to create custom configuration files for parameter analysis, and data search equation creation for batch or event analysis.

RPGSE should utilize a Ballard Technology CM429-1/717 PCMCIA card to interface with the ARINC 717 data stream for real time engineering unit conversion of ARINC 717 data.

2.11 Word Structure (Data Base) Configuration :

For analysis of any FDR, only hardware and software are not enough as they only help in downloading and decompression of raw data. To convert this data into engineering units, it is also required that, the Word Structure (Data Base) of any particular aircraft is also configured with the system of hardware and software. Hence, the supplier is also required to supply the read out software of the system which is configured with the following type of aircraft:

- B-777-237 family   256, 512 wps
- B-737-800 family   256 wps
- A-320 family   128, 256 wps
- ATR 72-212 family   128 wps
- Embraer 170 family

2.12   ATP Cable for SSCVR and DVDR (P. No. 704-2863-002):
This is a cable which should connect RPGSE with SSVCR and DVDR for download and analysis of data.

2.13 ATP Cable for SSFDR (P. No. 704-2863-021) :
This is a cable which should connect RPGSE with SSFDR for download and analysis of data.

2.14 ATP Cable for AR Series Recorders (P. No. 704-2863-041):
This is a cable which should connect RPGSE with AR Series Recorders for download and analysis of data.

2.15 Cable for DVDR/AR Series Recorder's Data Download (P. No. 704-2864-001):
This is a cable which should connect RPGSE with DVDR/AR Series Recorders for download and analysis of data

2.16 Cable for SSFDR Data Download (P. No. 704-2864-021) :
This is a cable which should connect RPGSE with SSFDR Recorders for download and analysis of data.

3.0 Technical specifications for ULB (Under Water Locator Beacon) Localization tool Model no N30A5B or equivalent for flight recorders

3.1.1 ULB localization tool

ULB localization tool (Under water Acoustic Localization Tool) is the tool available to locate the recorders from under the water, whenever an aircraft crashes in water field. All flight recorders should be equipped with a ULB (Under water locator beacon) that emits an emergency signal from water, picked up by ULB localization tool. Once the recorder is located, it will be recovered from the sea with the help of divers.   ULB localization tool (Model N30A5B or equivalent) consists of a model N15A235B or equivalent underwater Acoustic receiver with their accessories listed in table 1.

Description of ULB localization tool (Model No N30A5B)

ULB localization tool (Model N30A5B) should consists of a model N15A235B underwater Acoustic receiver with their accessories listed in the following two tables:

Sr. No	Nomenclature	Quantity
01	Under Water Acoustic Receiver	01
02	Hydrophone	01
03	Submersible Headphone	01
04	Staff Handle Assembly	01
05	Staff Extension Sections	03
06	Staff Hydrophone Holder with Extension Cable	01
07	Wrench (Staff Assembly)	02
08	Transit Case	01
09	Transit Case Liner (Bottom)	01
10	High Noise Level Headset	01
11	Technical Manual	01
12	O-Ring	01
13	O-Ring lubricant (Jar)	01
14	Dummy Load	01

Spare Parts:

Sr. No	Description	Quantity
01	Connector Pin	01
02	Seal Screw	01
03	O-Ring	02
04	Battery Adapter	01
05	Connector Kit	01
06	Connector Kit	01

3.2 ULB localization tool Receiver should be able to meet with the following specifications:

- **Frequency Range**- Minimum 30 to 45 kHz continuous tuning.
- **Receiver gain**- 130 Db minimum at 37.5kHz
- **Receiver noise level** – 0.1 Micro volt rms equivalent at receiver input
- **Receiving Bandwidth-** Response down minimum of 10 Db at +_ 500kHz from center frequency With 03 microvolt input signal
- **Audio output-** 300mw nominal at peak response between 1000 and 3000Hz
- **Receiver Directivity-** Acoustic response down at least 10 dB at + 30 degree to maximum at 37.5 kHz
- **Power Source-** Standard AAA Alkaline Battery
- **Operating Temperature-** 0 degree F. to 130 degree F.
- **Storage temperature**: -65 degree F. to + 140 degree F.
- **Dimensions**- 4.5" diameter x 09" length
- **Weight in Air**- 05 lbs

3.3 ULB localization tool also should have following features:

3.3.1 Locator system should have:

- Hand held, battery operated unit
- Designed to withstand hydrostatic pressure up to 260psi, equivalent to 600 foot depth
- Corrosion resistant materials
- Newly designed water light fiber glass case

3.3.2 In Boat mode, the tool should have the following features:

- Can be used from a small boat when used with auxiliary
- Battery Operated
- 07 foot staff extension included
- Detachable 12 foot hydrophone extension cable
- V-Fin available for search requirements
- Noise excluding headset

3.3.3 Diver Mode should have following features:

- Submersible headphones included
- Acoustic/ Visual Receiver enables diver to see or hear the signal
- Water light connectors
- LED displays allows underwater readings

4.0 Supplier of system should offer training to three Flight Recorder Lab officers at manufacturer's production facility for at least 08-10 days with free of training charges on the following areas:

1) Training on handling, downloading and decoding of all Honeywell SSCVRs
2) Training on handling, downloading and decoding of all Honeywell SSFDRs
3) Training on handling, downloading and decoding of all Honeywell DVDRs and AR series recorders
4) Training on ADRAS –32 for windows.
5) Training on handling of accident met solid state recorders.

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Annexure – II.

COMPLIANCE STATEMENT OF TENDER TERMS & CONDITIONS

NOTE:
1. Quotation may not be considered without submission of this format.
2. If a particular question is not at all applicable, please write NA in compliance part in Col. No.4 below.

S. No (1)	Terms & condition of Tender document (2)	Whether acceptable (say 'Yes' or 'No') (3)	Deviation from tender terms, if any, with reasons for noncompliance or alternative condition quoted for (4)
1	a) Whether quotation is direct from the manufacturer /developer or from their Indian agent.		
2	a) Whether the Techno-commercial and price bids have been kept in separate envelopes duly marked with "Techno-commercial Bid" and "Price Bids" respectively.		
3	Whether techno-commercial Bid contains technical literature/leaflets, detailed specifications & commercial terms & conditions.		
4	A) Whether prices are quoted on F.O.R up to Lab in INR		
	B) Whether specific amounts for each component of the tender is mentioned separately.		
5	Whether rates / amount of AMC after the warranty period are over has been mentioned.		
6	Can you conduct demonstration of the subject software as per the specification in full or in part in DGCA office on demand?		
7	Whether the user list and performance certificate is attached with the quotation		
8	Printed technical literature/leaflets of quoted items have been submitted		
9	Whether the delivery period for supply of the items has been mentioned		
10	Do you agree about the date of commencement of warranty period & its extension if necessary.		

11	a) Have you mentioned that the firm shall install/ commission and demonstrate the equipment at lab FREE OF COST		
	b) Have you mentioned that free training for operation and maintenance for the staff of lab will be given on site free of cost?		
12	Have you mentioned the guarantee period in your quotation and do you agree with guaranty clause?		
13	After Sales services		
14	Have you mentioned the validity period of the quotation is for a period of six months.		
15	a) Whether all the pages have been page numbered?		
	b) Whether quotation has been signed and designation & name of signatory mentioned.		
16	Please confirm that you have read all the instructions carefully and have complied with the instructions accordingly.		

Signature of the authorized signatory_____

Name of the signatory _____

Designation _____

Name & Seal of the quoting party _____

Dated _____

Price Bid

S.N.	Clause as per Tech. spec	Part No.	Description	Price in INR	Remarks if any
1	2.1	952-0035-002	RPGSE Base Unit		
2	2.2	964-0035-XXX	HHDLU		
3	2.3	998-3415-504	Software, HATS for SSCVR & DVDR		
4	2.4	998-3416-501	Software, HATS for AR Recorder		
5	2.5	998-3417-504	Software, HATS for SSFDR		
6	2.6	998-3412-501	Software FDR Data Download into RPGSE		
7	2.7	998-3413-501	Software for DVDR Decryption for RPGSE		
8	2.8	998-3414-504	Software, Play Back-32 for RPGSE		
9	2.9	998-3249-503	Software, ADRAS-32		
10	2.10	--	Software, ADRAS-ON-BOARD		
11	2.12	704-2863-002	ATP Cable for SSCVR & DVDR		
12	2.13	704-2863-021	ATP Cable for SSFDR		
13	2.14	704-2863-041	ATP Cable for AR series Recorders		
14	2.15	704-2864-001	Cable for DVDR/AR series Data Download		
15	2.16	704-2864-021	Cable for SSFDR Data Download		
16	2.11	-------	Database configuration for conversion of raw data in to engineering units		
17	3.0 to 3.3.3	-------	ULB localization tool		

18	4.0	-------	Receiver Training		
TOTAL COST OF System					
Tax if any					
Other charges (in any form)					
GRAND TOTAL COST OF THE SYSTEM/ PACKAGE					

Signature of the authorized signatory _____

Name of the signatory _____

Designation _____

Name & Seal of the quoting party _____

Dated _____

TENDER NOTICE

Office of the Director General of Civil Aviation
Opposite Safdarjung Airport
New Delhi -110003

Tel :- 24616853   Website : www.dgca.nic.in

Director General of Civil Aviation intends to procure a system of Hardware and Software required for downloading, decoding, playing and analyzing of Honeywell made Flight Recorders installed on Indian civil registered aircraft in India. System should be able to convert the data into engineering units and to monitor the operational exceedences if any. The detailed list of technical specifications, tender terms & conditions, lead time and other relevant details are available in Tender documents published in website www.dgca.nic.in.

Approximate and estimated cost of the Job   : -   Rs. 60 - 70 Lakhs

Last date for submission of Tender   : -   25 days from the date of advertisement.