

LAKSHADWEEP DEVELOPMENT CORPORATION LIMITED

(A Govt. of India Undertaking)

27/1038 B, Panampilly Nagar, Cochin – 682 036, India

Phone: 0484 – 2323448/2323458 FAX No.0484-2322924

E-Mail: amindivi@asianetindia.com

Website:www.ldcl.gov.in

LDCL/CTOD/007/12-13

Dated 27-07-2012

e-Tender Notice

e-Tenders are invited for supply, installation and commissioning of Radar with Automatic Identification System (AIS) at Port Control Towers of Kavaratti and Minicoy, U.T. of Lakshadweep. EMD for the tender is Rs.60,000-00. Cost of tender documents Rs.1,000-00 (non-refundable) and EMD amount to be remitted by NEFT Chalan to Account No.43011010000766 of Syndicate Bank, M.G.Road, Ernakulam IFSC Code:SYNB0004301, MICR Code:682025005, in favour of the Corporation.

Tender documents can be downloaded from website:**www.tenderwizard.com/UTL** after remitting the cost of tender document, before the closing date for request of tender form.

Tender Information

Tender Number	LDCL/CTOD/007/12-13
Date of request for Tender Form	28-07-2012 from 10.00am to 17-08-2012 3.00 pm
Date of issue of Tender Documents through online	From 28-07-2012 10.20 am to 17-08-2012 5.00 pm
Tender closing date & time	18-08-2012 at 3.00 pm
Tender Opening date & time	18-08-2012 at 3.30 pm

For any help in e-tendering, please contact M/s. KEONICS e-tender help Desk: 080-40482000

For LAKSHADWEEP DEVPT. CORPN. LTD.

V.C.Pandey
Managing Director

LAKSHADWEEP DEVELOPMENT CORPORATION LIMITED

(A Govt. Of India Undertaking)

27/1038B, Panampilly Nagar, Cochin – 682036.

Phone: 0484 – 2323448/2323458 FAX No.0484-2310926

Tender No. LDCL/CTOD/007/12-13

Dated 27-07-2012

TENDER ENQUIRY

e-Tenders are invited from Manufacturers/Authorised Distributors/Authorised Dealers in **TWO BID SYSTEM** for supply, installation and commissioning of Radar with Automatic Identification System (AIS) at Port Control Tower of Kavaratti and Minicoy, U.T. of Lakshadweep, Kerala State, India, **on Turnkey basis**, as per the details given herein.

An EMD of Rs.60,000-00 (Rupees Sixty Thousand Only), as specified in this tender document shall be remitted or proof for exemption to be submitted.

The ordered items should be installed, tested and commissioned at Port Control Towers of Kavaratti and Minicoy, within (45) forty Five Days from date of receipt of Purchase Order.

Tenders shall be submitted strictly in accordance with the instructions, terms and conditions given in the tender document. Deviations are generally not acceptable, but, if any, shall be indicated clearly and conclusively. A list of deviations (Check List) duly authorized shall also be enclosed in such cases.

The last date and time for receipt of tender and the opening of the same is given on the cover page of the tender document. Tenderers are requested to carefully read through the enclosures before filling in the tender.

For Lakshadweep Development Corporation Ltd.,

Managing Director

Enclosures:

- 1) Technical Specifications of Radar with AIS – Annexure-I (page)
- 2) Technical Bid (PART-I) -Annexure-II (2 Pages)
- 3) Price Bid (PART-II) - Annexure-III (2 page).
- 4) Bid Evaluation Criteria (1 page)
- 5) Tender conditions (Special) – Annexure-IV (1 page)
- 6) Tender Enquiry Special Conditions for The Bid Systems- Annexure-V (2pages)
- 7) Tender Enquiry General Terms & Conditions – Annexure-VI (3 pages)
- 8) Check List – Annexure VII (1 Page)

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Tender No.LDCL/CTOD/007/12-13

Due on 18-08-2012

OPERATIONAL AND TECHNICAL REQUIREMENTS
FOR ISLAND/COASTAL RADAR SURVEILLANCE SYSTEM – 2 Nos

Note: All QRs projected in succeeding paragraphs are essential requirements, unless stated otherwise by indicating 'desirable'.

1. **Purpose:** To serve primarily as the coastal surveillance radar to be installed at Lakshadweep islands , for the presentation of complete situational awareness of the vessels off the coast, and to assist in monitoring area of interest around the island to prevent any infiltration. The system should be able to monitor general shipping in the vicinity of the island /SLOC, movement of UTL ships fitted with UAIS Transponder, high speed crafts, fishing vessels including other floating objects. The radar system should, inter-alia, perform the following functions:-

- (a) Display clear raw video/graphic of all moving and stationary contacts with respect to shore/coast line, with provision of chart/ geographical map underlay, at a central controller suite.
- (b) Determine coordinates of the detected contacts and tracking of selected contacts.
- (c) Limited vessel traffic management functions to observe ships/boat traffic in the vicinity of island and avoid collision courses. Also monitoring of buoys, guard zones and ships/boats in the anchoring area in the vicinity of the islands.
- (d) Logging of vessel sighting details for future analysis. Also recording of all UAIS and Radar data (pre-determined backup time) at all times for a selective recall as and when necessary.
- (e) Positive identification of targets fitted with active UAIS transponders. Also, continuous display of all AIS Targets in and around the area of interest as overlay. In addition, generation of composite surveillance picture by executing multi sensor data fusion.
- (f) Ability to set a prohibited/restricted area in geographical map/chart underlay in the display for close surveillance against intrusion, with the provision to initiate automatic warning when targets violating pre-determined alarm criteria.

(Contd....2)

- (g) Complete surface surveillance and limited air surveillance.
- (h) Detection of the presence of environmental pollutants such as oil spills (desirable).

2. **Type:** Island based 'radar surveillance system' consisting of one 'S Band' and one 'X Band' high definition surface surveillance COTS radars, which are spatially separated, in conjunction with Universal Automatic Identification system, feeding to a centralised operator control station, meeting the current IMO specifications and complying with the requirements specified in the latest International Electro-Technical Commission standards in vogue.

3. **System Configuration:** It is mandatory for the system to have:-

- (a) Two spatially separated radars (S Band & X Band) with independent transceivers and antenna elements.
- (b) Two 'Radar System Consoles' one each for both X and S Band radars; which performs video extraction, target detection, tracking and video conversion in digital form. System should be capable of performing unmanned mode of operation as well as remote control mode of operation from a Centralised Work Station through LAN/Suitable Communication Link sufficient to cater the band –width requirements.
- (c) One 'Centralised Operator Workstation' with modular structure and open source architecture allowing easy expansion. The Workstation gets feed from both the radars as well as UAIS and presents the composite picture of situational awareness to the operator. Facility for controlling the individual radars and its parameters from this work station is essential.
- (d) UAIS Station with dedicated hardware and software integrated to Radar Console/ Centrallised Operator Work Station to provide AIS overlay.

4. One line sketch representing the proposed configuration is placed at **Appendix A** to this document.

5. **Antenna System:**

(a) **Elements, Polarization and Operating Frequencies:-**

- (i) One S (NATO: F) Band antenna (vertical polarization) of appropriate length (not less than 12 feet), along with pedestal.
- (ii) One X (NATO: I) Band antenna (horizontal and circular polarization) of appropriate length (not less than 19 feet), along with pedestal.

(Contd.....3)

(b) Beam Width:-

- (i) S Band – Approximately One degree horizontal and vertical between 20-25 degrees.
- (ii) X Band – Horizontal between 0.3 - 0.6 degrees and vertical between 20 -25 degrees.

(c) **Side lobes:** Better than about -25 dB within 10 degrees of beam and -30dB out outside +/- 15 degree of beam, for both S Band and X Band.

(d) **Gain:** 30 dB or better for both the bands.

(e) **Antenna Rotation Rate:** 20 to 30 rpm.

(f) Wind Speed Limitations:

- (i) **Structural:** To withstand wind speed of up to 120knots, in non-rotating state.
- (ii) **Operational:** To start and operate satisfactorily in wind speeds of up to 100 knots.

6. Transmitter/Receiver: Tx/Rx needs to be 'down-mast' version with following features:-

(a) Frequency :-

- (i) S Band: 3000 -3200 MHz
- (ii) X Band: 8700 -9500 MHz

(b) Peak Power:-

- (i) S Band – Approximately 30 KW.
- (ii) X Band – Approximately 25 KW

(c) **PRF/Pulse Length:** Multiple PRFs and variable pulse lengths (LP/MP/SP) for long range detection and short range discrimination.

(d) **Receiver Type:** Very Low Noise Logarithmic.

(e) System Sensitivity :-

- (i) S Band – Better than -100 dBm (Dynamic Range (IF) greater than 70dB).
- (ii) X Band – Better than – 100 dBm (Dynamic Range (IF) better than 120 dB (IF)).

(Contd....4)

- (f) **Overall Noise Figure:-**
 - (i) S Band – Better than 5 dB Nominal.
 - (ii) X Band – Less than 3.5 dB Nominal.
- (g) **Wave Guide Run:** Up to 30 m, waveguide run between antenna and trans-receiver unit, without degradation in performance of the radars.

7. Radar Local Console: Needs to perform video processing, scan conversion, target extraction/tracking, control of the associated radar and monitoring of the system performance. Following data needs to be transferred by the local console to the main operator work station:-

- (a) Track data (digital)
- (b) Video (digital)
- (c) Instantaneous status report in respect of the associated radar.
- (d) Various pre-set alarm thresholds.

8. Local console also needs to perform 'radar control functions' such as receiver tuning, setting of PRF/PW, STC Control, Alarm setting, tracking instructions and power on/off of Tx/Rx etc. based on the command/control signal received from the main operator control stations.

9. Central Operator Work Station: The work station needs to rebuild the video and radar map/track plot, based on the data received from both the S band and X band local consoles, through LAN/Suitable Communication Link sufficient to cater the band-width requirements. In addition, the station needs to execute following functions:-

- (a) Presentation of digitalised geographical map/chart as underlay in the main display, and overlapping the combined radar video / track on it.
- (b) Presentation of target tracks from Radar as well as UAIS.
- (c) Generation of complete situational awareness picture of the area of interest, to enable surveillance and monitoring.
- (d) Generation of automatic alarm when targets cross pre-set alarm criteria or a pre-defined surveillance area set on the display.

(Contd.....5)

10 With the provision of dedicated hardware, following additional control functionalities needs to be executed:-

- (a) Remote control of individual radar parameters as specified at Para 8 above.
- (b) Database management of targets/tracks.
- (c) 'Multi sensor data fusion' allowing correlation of data from both the radars as well as UAIS.
- (d) Continuous recording and playback of target detection data/video, tracks and alarms, for a duration of at least 7 days on system memory and facility for selective playback. Also, facility to extend the back-up time is to be provided.

11. Radar / Console Display:-

- (a) **Type of Display:** Rugged and high –resolution daylight Flat LCD display , with user friendly man-machine interface (MMI) and symbol /colours as per latest IMO standards. The ARPA should confirm to the requirements as per IEC 60872-1 or above.
- (b) **Screen Size:** 26 inch or better.
- (c) **Screen Resolution:** 1024 / 1024 or better
- (d) **Range Measurement:** It should be possible to measure the range of an object with an error not exceeding 1% of the maximum range of the scale in use, or 40 meters, which ever is greater.
- (e) **Bearing Measurement:** It should be possible to measure the bearing of a target with a maximum error of not greater than +/- 1degrees.
- (f) **Anti-Clutter Devices:** The equipment should have facilities for suppression of unwanted echoes from sea clutter, rain and other forms of precipitation, clouds, etc. It should incorporate both, manual and automatic anti-clutter controls including adaptive STC with facility to mark clutter prone area.
- (g) **Map Overlay:**
 - (i) Facilities for creating, storing and editing of geographical maps/charts.
 - (ii) Internal non-volatile memory /external memory cards option.

(Contd.....6)

- (h) **Display/Data Readout/Graphics:** The display should have mapping/analytical graphics in addition to overlay indicating geographical features, channel traffic, etc. A comprehensive menu system must be provided for allowing operator to control all system functionalities and for saving/retrieving target parameters. Following are the essential display features:-
- (aa) User friendly measuring scale for distance/bearing marks at any point in the map/screen in nautical miles (nm).
- (ab) Easily decipherable dialogue boxes for setting/reading parameters, viewing/editing target data and for executing monitoring/control functions.
- (ac) Quick operator access to any potential target information thus allowing examination of area against intrusion events. Separate target symbols along with suitable warning tags are to be provided for each situation, so as to enable the operator to make quick decisions.
- (ad) Graphical representation of targets, with the ability to add identification details manually or automatically when UAIS data available. Additional data needs to be displayed on screen in a separate display window.
- (I) **Tracking:** Manual/automatic acquisition and tracking of at least 256 targets (Both Radar and UAIS), with provision to initiate various modes of searches based on operator assessment and/or state of the target such as rest, fast manoeuvring, non-response to interrogation/identification, etc. Provision to be incorporated to automatically acquire/track targets entering pre-defined area in the map display-Also, automatic acquisition and tracking of targets with a speed above 35 knots is essential. Recording /Selective playback of data for duration of one day to seven days and provision for further data backup must be provided . The system is required to display selected target history up to a period of seven days and the length of the target vector could be set by the operator. System should be able to simulate targets and display the same on screen.
- (j) **Guard Zones:** Facilities for setting variable guard zones/non transmission zones.
- (k) **Alarms:** Facility to set a prohibited/restricted area in geographical map/chart underlay on the display for close surveillance against intrusion, with the provision to initiate automatic warning when targets violating pre-determined alarm criteria . Some of the criteria for generating warning are as follows:-
- (aa) Sudden target loss during tracking/sudden course change during tracking. Facility to simulate/predict target track in such conditions.
- (ab) When new target is detected.
- (ac) Fast moving target on a collision course.

- (ad) Intrusion into marked area.
- (ae) Deviation in assigned target path.
- (af) Any target exceeding speed limit of 30 knots.
- (ag) When 'vessel on anchor' drifting/moving away.

12. **System interfaces/Integration:** Stand alone radar consoles and UAIS System are to be integrated to 'Operator Control Console/CENTRAL Work Station' for providing composite situational awareness to the operator. For transferring data from individual radar console to the operator control station, suitable communication link/LAN, sufficient to cater the band-width requirement is to be defined and installed by OEM. The responsibility of complete system integration and interfaces are to be assured by the supplier. Provision to interface with Wind Speed and Direction indicator is desirable.

13. **System Performance:**

- (a) **Minimum Range:** 100 meters or better, when installed on an elevated platform of 20 meters height form MSL/Building datum.
- (b) **Bearing Discrimination:** One degree or better.
- (c) **Range Discrimination:** Better than 40 meters.
- (d) **Bearing Accuracy:** One degree or better.
- (e) **Performance in Rain:** To avoid reduced performance during rain, provision of for circularly polarized transmission capability with X Band is essential.
- (f) **Minimum Detection Ranges:** Following are the minimum detection ranges, expected to be obtained, under standard atmospheric conditions over sea, with antenna installed on an elevated platform of 20 meters height from MSL/Building datum:-

Sl.	Type of Object	Minimum Detecting Range
(i)	Large Merchant Vessel	Up to 50 nm or better
(ii)	Medium Tonnage Vessel with RCS in the range of 1000sq meter or letss	Up to 40 nm or better
(iii)	Merchant /Patrol vessels or RCS in the range of 100 sq meters	Up to 30 nm or better
(iv)	Small Fishing Vessels(Length 4 to 6 meter)	Up to 15 nm or better
(v)	Small Helicopter at 1000 ft.	Up to 15 nm or better
(vi)	Large Helicopter at 1000 ft	Up to 20 nm or better
(vii)	Fast moving /maneuvering small vessels	Up to 10 nm or better
(viii)	Floating Buoy/Marker	Up to 3 nm or better

14. Durability and Resistance to Environment Conditions: The equipment should be capable of continuous operation without causing equipment degradation, under the conditions of continuous exposure to highly corrosive and salt-laden/humid conditions associated with coastal environment/sea. The system should be capable of withstanding tropical/ rainy conditions and periodic intense monsoon spells. Equipment shall be tested to relevant commercial standards in vogue for induced environmental conditions. Following are the ambient condition limits (Applicable Standard – IEC60945 REV 3):-

- (a) Operating Temperature: 0° to +50° C (Internal sub-units) and -10° to + 55° C (External sub-units)
- (b) Storage Temperature: – 10° to + 55° C
- (c) Relative Humidity: 95% (non – condensing) at 40° C

15. EMI/EMC Standards: The radar equipment should conform to the standards specified in IEC 60945 for unwanted electromagnetic emission and immunity to electromagnetic environment.

16. Power Supplies: The radar system should be capable of operating on 220/380/415/440 Volts 1Q/3Q, 50 Hz power supplies.

17. Maintenance and Product Support:

(a) **On-Site Maintenance:** The system should afford easy on-site maintenance, by replacement of cards by using Built-In Self Test (BIST) menu analysis and computer fault diagnosis display. The OEM/supplier is also required to recommend a list of on-site spares for undertaking essentially/urgent breakdown repair.

(b) **Product Support:** The radar should be supported by the OEM/supplier, for a period of at least 12 years. Likely obsolescence of any component/module, should be intimated by the firm, well in time to enable stocking of spares by the Island Administration. The firm should also recommend/offer suitable substitutes for such components. In addition, up gradation/modifications to the system, resulting in enhancements to the systems performance should be intimated and offered to the User. The firm should also be willing to undertake AMC/RRC (which would be separately contracted on expiry of the warranty period) either directly or through their authorized reps in India.

(c) **Performance Monitoring:** OEM needs to undertake periodic performance evaluation of the system to detect significant drop in systems performance relative to the calibrated standard established at the time of installation. All performance degradation issues are to be brought to the notice of the island administration and corrective measures are to be taken immediately.

(d) **Operator Training:** Operator training on basis radar system operation and maintenance needs to be provided by the OEM on site/factory premises.

18. **Mean Time to Repair (MTTR):** The basic system should have a MTTR of two hour or less.

19. **Additional Requirements:-**

(a) **Fan Out/Interface Unit:** The radar system should have an option for a fan out/interface unit or a similar facility, enabling transfer of the raw radar video feed and the track data/UAIS tracks, to remote locations /control stations located main-land through dedicated communications link.

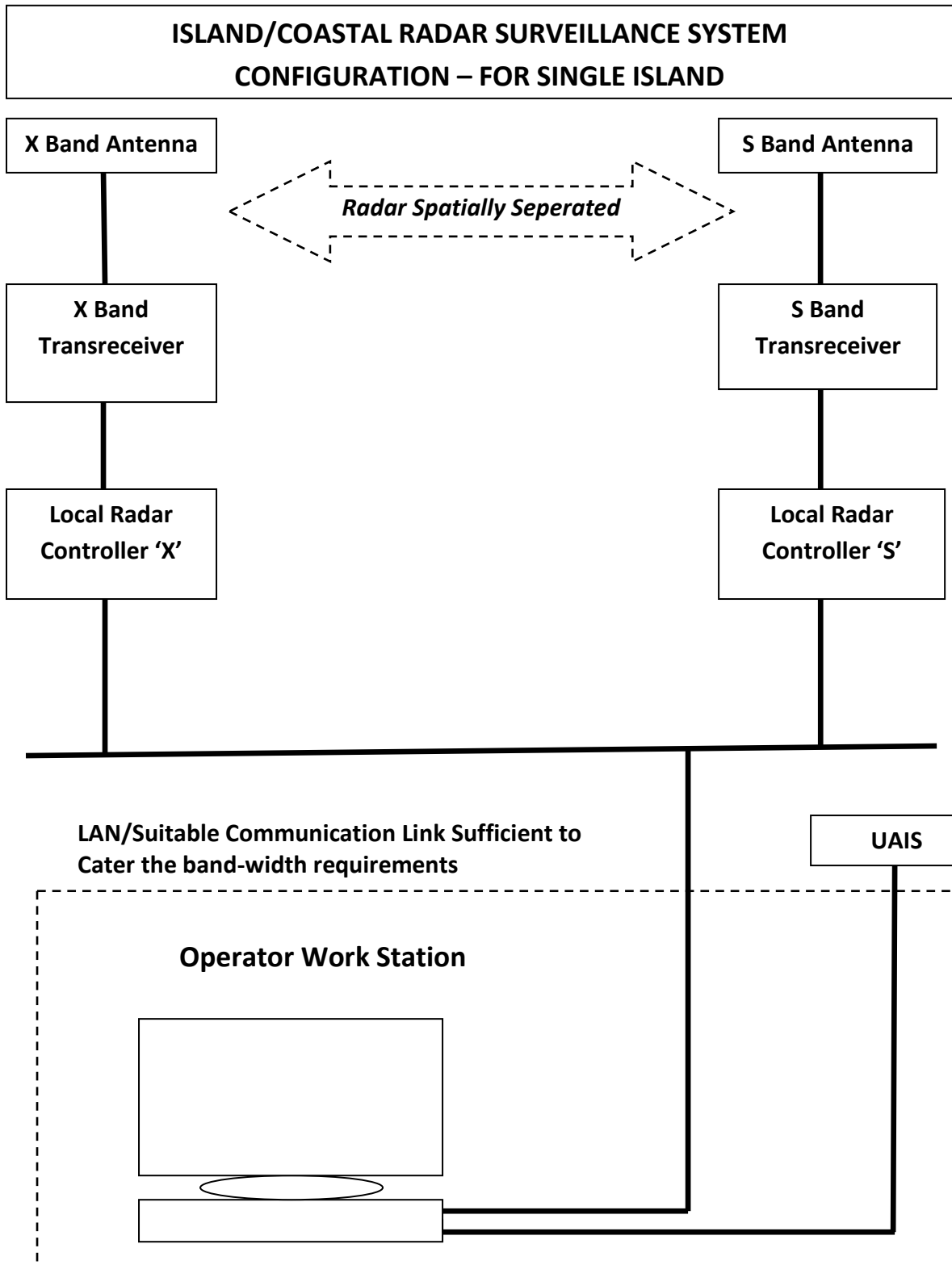
(b) **Full Functionally from Operator Work Station:** It should be possible to perform remotely all radar functions including selection of range, PRF, pulse width, gain, etc. from the Operator workstations. Display module in operator station should be able to display feed from both the radars and UAIS.

(c) **Multi Radar Operation:** Provision for independent as well as simultaneous operation of radars is essential.

(d) **Near Area Surveillance:** Provision to incorporate CCTV System for near area surveillance is desirable.

For Lakshadweep Development Corporation Ltd.,

Managing Director



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Tender No.LDCL//CTOD/007/12-13

Due on 18-08-2012

PART-I**TECHNICAL BID**

1. Name and Address of the firm with :
Telephone Number/Fax No./E-Mail address

2. Status of Firm –Public Limited/ Private :
Limited /Proprietary /Partnership. (Please
enclose copy of Registration Certificate).

- 3.Whether Manufacturer/Authorised Dealer/
Authorised Service Providers :
(Documentary proof to be produced)

- 4.Turnover for the last three years : 2008-09
(Attach one page certificate from
Chartered Accountants) 2009-10
2010-11

- 5.Details of Supplies of the tendered item made
to different Ports/Department/Defence in :
India and other countries in recent time.

- 6.Your Income tax Registration No. & Date :
(Please enclose copy of Certificate)

7. Your Salestax Registration No. & Date :
(Please enclose copy of Certificate)

8. Your PAN Number :

- 9.Validity of the Tender Offered :

(Contd.....2)

- 10. Acceptance of our Payment Terms :
- 11. Delivery period required :
- 12. Guarantee period offered :
- 13. Details of technical specification of the items offered (Attach conclusive details, test certificate & technical literature, if any). :
- 14. Details of EMD enclosed :

Certified that the details given above are true and correct and are based on documentary proof/evidences, originals of which shall be submitted for verification, if so desired, at any stage.

Place :

Date :

SEAL & SIGNATURE OF THE TENDERER

Notes:-

- 1. Documentary evidences called for should be attached. LDCL retains the right to reject tenders unsupported with documentary evidence, wherever specified

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PART-II

PRICE BID

1. Item detail & specifications in brief :
(attach separate sheet, if needed)

Price for two sets (In Indian Rupees)

- a) Basic Price :
- b) Rate of Excise Duty, if any :
- c) Salestax :
- d) Other duties/levies, if any applicable :
- e) Insurance charges, if any :
- f) Freight Charges, if any :
- g) Other charges, if any :
- h) Service Tax, if any :
- i) Total amount F.O.B. Destination :
- j) Recurring charges, if any :

(Contd.....2)

k) Is authorized service station of Original
Equipment Manufacture available at
Cochin : YES/NO

If 'Yes' to (k) please furnish name/address of
station and name/experience of contact :
cell-phone nos. of Technicians located at Cochin

If 'NO' to (k) quote for charges/visit including Air
Travel time/Outstation travel from base to Cochin
to base. (Loading will be 4 visits/year (Total 12 visits :
for two PCT's for 3 years:

l) Service Technician charges/Day (Loading will be
2 days/visit. Total for 3 years: 48 Technician-days) :

Place :

Date :

SEAL & SIGNATURE OF THE TENDERER

Note:- The tenderer shall make specific mention of deviations, if any, and include a List of
Deviations with the tender.

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BID EVALUATION CRITERIA

- 1) Supplier should be a reputed company having experience of manufacture of Radar and Automatic Identification System OR Authorized Dealer. Proof for supply & installation of atleast 15Nos. of Radar & AIS should be produced.
- 2) The Company should be in existence for over 7 years in the manufacture of Radars/AIS OR should be the Authorized Dealer for the same.
- 3) The local support Company name and address in Kochi to be indicated for providing after sales service support.
- 4) The local representative office should have experience in maintenance of Radars & AIS in shore base stations.
- 5) The supplier must guarantee spares support for next 12 years.
- 6) The supplier must arrange the import license, if any, through their local agent.
- 7) The supplier should arrange pre-delivery inspection by LDCL appointed agency at premises. This clause will be totally at option of LDCL. In case the inspection person is not deputed, the test report of the set must be sent to LDCL for examination prior delivery.
- 8) The installation, testing and commissioning will be supplier's responsibility. The proof of local service support experience in the field of installation & maintenance must be enclosed with the bid.
- 9) The Radar should be supported by OEM/Supplier for a period of at least 12 years.

For Lakshadweep Development Corporation Ltd.

Managing Director

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TENDER CONDITIONS (SPECIAL)

1. Detailed write up about the firm and the scope of supply should be clearly mentioned covering the offer, with supporting documents.
2. The Equipments have to be installed, tested and commissioned at Port Control Towers of Kavaratti and Minicoy, U.T. of Lakshadweep, within Forty Five Days from date of receipt of the Purchase Order, on Turnkey basis. LDCL will extend necessary space for arranging shipment of the Equipment from mainland to Kavaratti and Minicoy. The supplier should ensure proper and sea-worthy packing of the equipment and safety of the Equipment. Supplier should also arrange Marine Insurance. LDCL shall not be responsible for any damage, if occurred, while shipment
3. The tenderer has to impart training to our technicians, for the smooth operation of the System.
4. Payment Terms:
 - 70% of the order value immediately on successful commissioning of the Equipments,
 - 20% on successful functioning of the System for One month and
 - balance 10% after the guarantee period OR against Performance Bank Guarantee from a nationalised bank for equivalent amount, with validity of Two Years.

For Lakshadweep Development Corporation Ltd.

Managing Director

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TENDER ENQUIRY SPECIAL CONDITIONS FOR TWO BID SYSTEM.

I. MODE OF SUBMISSION OF TENDERS. Tenders shall be submitted through e-tender only.

II. PART-I (TECHNICAL) shall contain the following details.

- a. Proof for remittance of Rs.1,000-00 (Rupees One Thousand Only), towards the cost of Tender documents..
- b. Copy of NEFT Chalan for Rs.60,000-00 (Rupees Sixty Thousand Only) towards Earnest Money Deposit (EMD) remitted / clear proof for exemption from payment of EMD, if eligible.
- c. Technical specifications.
- d. Copy of Test Certificates
- e. Technical literature, if any.
- f. Delivery date.
- g. Payment terms.
- h. Validity of offer.
- i. Other conditions, if any.
- j. Deviation lists, if any.
- k. Freight and insurance arrangements (the over all sizes and gross weights of each packing case shall be given to estimate the freight charges at LDCL end, if needed.)
- l. Any other details desired elsewhere in the tender document

III. PART – II (PRICE) shall contain the following details: -

- a. The price bid shall be conclusive giving price break up of each item / equipment / accessory, if relevant, so as to arrive at the total expenditure with out seeking any clarification from the tenderer.

(Contd.....2)

- b. The applicable salestax, service tax, customs duties, excise duties and other levies shall be specified and quantified in the offer.
- c. The price shall be quoted for supply, installation and commissioning of Radar with AIS at Port Control Tower of Kavaratti and Minicoy, U.T. of Lakshadweep, Kerala State, India, on Turnkey basis.
- d. The offer shall not have any counter conditions / claims for extra payments.
- e. LDCL reserves the right to alter / modify the scope of supplies at their discretion and in consistence with the policy of the Government of India and statutory bodies under them as applicable to the contract from time to time.
- f. Deviations from that of the tender specifications / conditions are generally not allowed, however, if any, shall clearly be furnished in a separate document titled as "List of Deviations" and enclosed with the Technical Bid.
- g. Offers shall be clear and unambiguous. Incomplete / ambiguous offers are likely to be rejected. Similarly, offers not in compliance with the tender conditions / with counter conditions are also likely to be rejected. Besides the above, conditions that are relevant from the tender enquiry general terms and conditions also shall apply.
- h. Taxes/statutory deductions will be made as per applicable Laws.

For Lakshadweep Development Corporation Ltd.,

Managing Director

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TENDER ENQUIRY GENERAL TERMS AND CONDITIONS

1. The Bidder is requested to carefully go through the terms and conditions and the technical specifications of the items for which offers are invited. Deviations from that of the tender specifications / conditions are generally not allowed, however, if any, shall clearly be furnished in a separate document titled as “List of deviations” and enclosed with the Technical Bid.
2. The price shall be quoted for delivery at the destination specified.
3. Insurance & freight charges, if any, shall be indicated separately.
4. Price shall be kept valid for acceptance for a period of three months from the date of opening of tender.
5. No enhancement of rate / price shall be allowed under any circumstances once the price bid is opened / tender is accepted / order is placed. Withdrawal of the quotation after it is accepted and / or failure to make the supply within the stipulated delivery period shall entail cancellation of the order and forfeiture of Earnest Money Deposit / Security Deposit, if any, and / or risk purchase.
6. Sales tax, Excise Duty , Customs Duty and other taxes and duties, if any, payable extra shall be quantified clearly in the tender / price bid. Maximum possible discount shall clearly be indicated separately and quoted in the first instance itself in the offer. Discounts if offered after the opening of the tender with a view to alter the tender position may lead to disqualification of the tender submitted.
7. The delivery required is indicated in the enquiry. The bidder is requested to agree the same. However, in case of inability, may quote the shortest delivery time; but to be adhered to. Requests for extension of delivery period after placement of order in general shall not be agreed to.

(Contd....2)

8. Standard payment term of LDCL is given separately in Annexure-IV (Tender Conditions Special) The tenderer shall confirm acceptance of the same in the offer.
9. An **EARNEST MONEY DEPOSIT** of **Rs.60,000-00** (Rupees Sixty Thousand only) shall be remitted by NEFT chalan to Account No.43011010000766 of Syndicate Bank M.G.Road, Ernakulam, IFSC Code:SYNB0004301, MICR Code: 682025005 in favour of Lakshadweep Development Corporation Limited, Cochin-682036, Kerala State, India. The EMD amount will be treated as Security Deposit for the successful bidder and will be returned without interest after the satisfactory completion of the contract. After finalization of the tender, in case the successful bidder do not accept the Purchase Order and/or fails to execute the same, the EMD remitted by the said bidder will be forfeited.
10. Manufacturer's name, their trademark and brand, if any, shall invariably be mentioned in the tender and illustrated leaflets giving technical particulars etc., shall be attached with the offer to conclude the technical evaluation without seeking any clarifications from the tenderer. Offers, if submitted without sufficient details may lead to disqualification of the same.
11. Equipments offered shall conform to the enquiry specifications and other details enclosed with the enquiry.
12. The bidder shall submit samples and detailed literature free of cost, if called for, and get the same approved before commencement of supply.
13. The quantity of item to be purchased may vary according to actual requirement at the time of placing orders and hence LDCL, Cochin, reserves the right to do so at their discretion for the same.
14. If specified in the order, the successful bidder shall remit a Security Deposit of 10% of the order value less EMD remitted by way of crossed Demand Draft or Bank Guarantee as per LDCL format (please see Annexure-A) from any nationalised or scheduled Indian Bank towards satisfactory execution of the contract and for enforcement of the agreed guarantee conditions. The Bank Guarantee shall be initially valid till the delivery period/date of commissioning as the case may be and later shall be revalidated to cover guarantee period plus a grace period of three months. The EMD/Security Deposit remitted as above shall be returned without any interest on successful completion of the supply/contract.
15. An Agreement (please see Annexure-B) on stamp paper worth Rs.100-00 (Rupees One Hundred only) has to be executed by the successful bidder regarding supply, erection, commissioning and performance guarantee as per the order placed.

(Contd....3)

16. Should failure in performance of the contract or part thereof arise from war insurrection, restraint imposed by Government, Act of Legislature or other Statutory Authority or illegal strike, riot, legal lock-out, flood, fire, explosion, Act of God or any inevitable or unforeseen event beyond human control which may be construed as reasonable ground for an extension of time on force Majeure condition, LDCL may allow such additional time as in mutually agreed, to be justified by the circumstances of the case. The occurrence / cessation of force Majeure situation is to be informed with documentary evidence within 15 days from the date of occurrence/ cessation.
17. In case of delay in supply of ordered item/materials/equipment beyond the stipulated delivery period the supplier shall pay Liquidated Damage (and not by way of penalty) a sum equivalent to 5% (Five percent) per month of the value of materials delayed, subject to maximum of 20% (Twenty percent) of the order value. If the supplier fails to supply the items ordered within the delivery date, the progress in making ready for delivery does not commensurate with the period agreed or violate any of the terms and conditions of the purchase order, LDCL shall have the rights to terminate the contract with 15days notice and / or forfeiting the Security Deposit, besides, initiate alternate procurement at the risk and cost of the supplier.
18. If otherwise not specified, the equipments installed shall be guaranteed for satisfactory performance for 18 months from the date of installation & commissioning against faulty materials and bad workmanship. Supplier shall replace and install free of cost immediately any defective part/system due to the above reason within the guarantee period. However, if there is any undue delay in rectifying the fault the guarantee period should be extended correspondingly. LDCL may, at their discretion retain 10% of the order value towards performance guarantee, which can be released against Bank Guarantee as specified at Clause 15 above.
19. Suppliers are allowed to depute their authorized representative to be present at the time of opening the tender.
20. LDCL do not bind by themselves to accept the lowest or any tender. The Managing Director of LDCL is empowered with the right to accept or reject any or all or a part of any tender at his discretion, without assigning any reason.
21. All questions, disputes or differences arising under / out of, or in connection with contract shall be subject to the exclusive jurisdiction of the place, from which the acceptance of the tender is issued.
22. The tenders without the specified EMD/acceptable proof for eligibility from payment of EMD will be rejected and will not be considered for price bid opening.
23. Offers not in compliance with the conditions above are likely to be rejected.

For Lakshadweep Development Corporation Ltd.

Managing Director

LAKSHADWEEP DEVELOPMENT CORPORATION LIMITED
(A Govt. Of India Undertaking)
27/1038B, Panampilly Nagar, Cochin – 682036, India.
Phone: 0484 –2323448/2323458 FAX No.0484-2310926

Tender No.LDCL/CTOD/007/12-13

Due on 18-08-2012

CHECK LIST

The tenderer shall confirm the following points and certify for compliance. Deviations, if any, shall clearly be mentioned and details attached.

<u>Sl.No.</u>	<u>Particulars.</u>	<u>Confirmations.</u>	
1.	Offer complies with tender specifications	YES	NO
2.	Offer is made as per terms in the Bid System	YES	NO
3.	EMD enclosed with Technical Bid	YES	NO
4.	Deviation if any, from the Price Bid format (Enclose specimen)	YES	NO
5.	Offer complies with all the clauses/conditions of Annexure-IV & V	YES	NO
6.	Offer complies with the following clauses of Annexure-VI.		
a.	Clause-1	YES	NO
b.	Clause-2	YES	NO
c.	Clause-3	YES	NO
d.	Clause-4	YES	NO
e.	Clause-5	YES	NO
f.	Clause-6	YES	NO
g.	Clause-7	YES	NO
h.	Clause-8	YES	NO
i.	Clause-9	YES	NO
j.	Clause-10	YES	NO
k.	Clause-11	YES	NO
l.	Clause-12	YES	NO
m.	Clause-13	YES	NO
n.	Clause-14	YES	NO
o.	Clause-15	YES	NO
p.	Clause-16	YES	NO
q.	Clause-17	YES	NO
r.	Clause-18	YES	NO
s.	Clause-20	YES	NO
t.	Clause-21	YES	NO
u.	Clause-22	YES	NO

Signature:

Name:

Designation:

PERFORMANCE GUARANTEE

To

Lakshadweep Development Corporation Limited,
(A Govt. of India Undertaking)
27/1038B, Panampilly Nagar,
Ernakulam,
Kochi-682036

Whereas M/s..... name address of supplier (hereinafter called the SUPPLIER) has undertaken in pursuance of Contract No.....dated..... for supply, installation and commissioning of Radar with Automatic Identification System at Port Control Towers of Kavaratti and Minicoy Islands, U.T. of Lakshadweep for a total value of Rs..... (Rupees.....) (hereinafter called "the CONTRACT") AND WHEREAS it has been stipulated by Lakshadweep Development Corporation Limited (The Buyer" hereinafter called "LDCL") in the said contract that the Supplier shall furnish LDCL with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the supplier's obligations in accordance with the contract.

AND WHEREAS we have agreed to give the supplier such a Bank Guarantee

NOW THEREFORE we,(name of Bank) and having its head office at..... hereinafter called" the BANK") hereby affirm that we are the Guarantors and responsible to LDCL, on behalf of the supplier upto a total of Rs.....(Rupees.....only) towards 10% (ten percent) of the order value, such sum being payable in the types and proportions of currencies in which the contract price is payable and we undertake to pay LDCL upon your first written demand and without civil or argument, any sum or sums within the limits of Rs..... (Rupees.....only) as foresaid without LDCL needing to prove or to show grounds or reasons for LDCL's demand for the sum specified therein.

We, the Bank, hereby waive the necessity of LDCL demanding the said debt from the supplier before presenting us with the demand.

We, the Bank, further agree that no change or addition to or other modification of the terms of the Contract or of the works to be performed thereunder or of any of the Contract documents which may be made between LDCL and the Supplier shall in any way release us from any liability under this guarantee, we hereby waive notice of any such change, addition or modification.

(Contd.....2)

This Guarantee shall be valid upto 15 (fifteen) months from the date hereof.

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceeds Rs.....(Rupees.....only)
2. This Bank Guarantee shall be valid upto ...day.....month.....year and
3. We are liable to pay the guranteed amout or any part thereof under this Bank Guarantee only and only if LDCL serve upon us a written claim or demand on or beforedate.....month.....year.

Yours truly,

Signature and seal of the Guarantor:

Name of Bank:

Address:

Date:

AGREEMENT FOR SUPPLY, INSTALLATION AND COMMISSIONING OF “RADAR WITH
AUTOMATIC IDENTIFICATION SYSTEM ” AT PORT CONTROL TOWERS OF
KAVARATTI AND MINICOY ISLANDS, U.T. OF LAKSHADWEEP

This Agreement made this day2012, between M/s.

.....
(hereinafter called the “SUPPLIER” which term shall wherever the context so admits include their heirs, legal representatives and assignees) represented by Shri(name, designation) on the one part and Lakshadweep Development Corporation Limited (A Government of India Undertaking), 27/1038A, Panampilly Nagar, Cochin – 36 (hereinafter called “LDCL” which expression shall wherever the context so admits include his successors in the office and assignees) represented by Shri.V.C. Pandey, Managing Director, on the other part.

WHEREAS SUPPLIER has agreed with LDCL for supply, installation and commissioning of Radar with AIS at Port Control Towers of Kavaratti and Minicoy, U.T. of Lakshadweep, as specified and at the prices and in the manner and upon the terms and conditions described in the schedule hereto and hereinafter mentioned.

NOW THESE PRESENCE WITNESSETH AND the parties mutually covenant and agree as follows:

1. The equipments supplied shall be strictly in accordance with the specifications, qualities and prices as mentioned in the schedule enclosed and shall be delivered within the stipulated period by SUPPLIER in the place as prescribed in the schedule. The Items shall be subject to inspection and acceptance or rejection by LDCL or such other persons appointed by LDCL from time to time, in case it is not in accordance with the specifications etc. of the schedule, the decision of Managing Director, LDCL as regards to the quality of material as well as workmanship shall be final and binding on the contract.
2. The quality of materials used and equipments shall be first class and shall meet the requirement.
- 3.The agreed price shall be firm and not subject to fluctuations at any date till the completion of the contract, save for changes in statutory duty structure.
4. The scope of supply, shall be done to the entire satisfaction of LDCL or their representatives. The decision of the Managing Director, LDCL shall be final and binding on supplier as per the specifications mentioned in the order.
5. If SUPPLIER fails to complete supply, installation and commissioning within the period specified or within such extended period as may be allowed by the Managing Director, LDCL, SUPPLIER shall pay or allow LDCL to deduct the sum equivalent to 5% of the value of contract price per month or part thereof subject to a maximum limit of 20% of value of contract price.

(Contd.....2)

6. In the event of SUPPLIER failing to supply, installation and commissioning of the Equipments , in all respects in the manner stipulated in the contract within the prescribed time or within the extended time, the Managing Director, LDCL shall have the right to terminate the contract and to make alternate procurement. The Managing Director, LDCL shall have also freedom to enter into any contract with other suppliers or parties for supply of balance scope. The additional expenditure incurred by the LDCL in this exercise also shall be borne by SUPPLIER. Such amount shall be deducted from the amount unpaid to SUPPLIER if sufficient, and if not sufficient it will be compensated by SUPPLIER.

7. Soon after the delivery of equipment LDCL will acknowledge receipt on the delivery note. Acknowledged delivery note for receipt alone shall be the proof of delivery of the items. Immediately on delivery of the items the SUPPLIER shall depute competent person for installation and successful commissioning of the system. If the performance of the equipments supplied is not satisfactory during or after the commissioning, LDCL will require it to be replaced or re-changed. The decision of the Managing Director, LDCL or his authorised representative shall be final and binding on SUPPLIER who may arrange for his representative to be present at such inspection.

8. The equipments installed shall be guaranteed for satisfactory performance for 18 months from the date of delivery against faulty design, defective materials and bad workmanship. Supplier shall supply and install free of cost immediately any part found defective due to the above reason within the guarantee period. LDCL shall retain 10% of the total basic price towards performance guaranty which will be released on satisfactory completion of the warranty period. This amount can also be released on production of a bank guarantee for equal value valid for fifteen months (including three months grace time to prefer claims, if any)

9. If any defects are noticed within the guarantee period due to defective material or design or bad quality material/workmanship, SUPPLIER shall be bound to replace the system at SUPPLIER'S own cost with in the time specified by LDCL. In the event of SUPPLIER failing to do this within the specified time, LDCL may arrange for such replacements and deduct the cost thereof from the amount, if retained, without prejudice to the recovery of any amount that may have been spent in excess of the deposits or collect the cost thereof from the guaranteeing bank, if provided, before discharging deposits without prejudice to the recovery of any amount that may have been spent in excess of the amount recoverable as per the deposits directly from SUPPLIER.

10. SUPPLIER shall not assign this contract or sublet any portion thereof to any party whatsoever without prior approval of LDCL, in writing.

(Contd...3)

11. SUPPLIER shall be responsible for any accident, damage or injury caused to any of his employees during execution of the work and shall hold the LDCL blameless in respect thereof and also in respect of any claims made by any person in the employment of supplier or any reason whatsoever.
12. SUPPLIER shall be responsible for all structural or decorative damages to the property of LDCL and all the damages caused by him/his agents be rectified at his own cost.
13. LDCL or their representative shall be at liberty to object and require SUPPLIER to remove from the works and persons employed by the SUPPLIER for the works, who in the opinion of LDCL or their representative misconducts himself or is incompetent or negligent in the proper performance of office duties and such persons shall not be again employed upon the works without the permission of LDCL.
14. LDCL shall not be liable for any damage or compensation payable as per law, due to any accident or injury to any workman or other persons in the employment of SUPPLIER or any sub-contractor. SUPPLIER shall indemnify and keep indemnified LDCL against all such damages, compensations, all claims, demands, proceedings, cost, charges and expenditure whatsoever in respect thereof or in relation thereto.
15. It must be clearly understood that the amount payable under the contract is to be inclusive of everything required to be done by specifications, conditions of supply and also such work as is necessary for the proper completion of the contract although special mention thereof may have been omitted in the specification.
16. All questions, disputes or differences arising under, out of or in connection with this Agreement, if not concluded shall be subject to the exclusive jurisdiction of the place, from which the acceptance of the tender is issued.
17. The payment shall be made as per the relevant terms of the purchase order given in the schedule herewith.
18. The payment will be withheld on any violation / default / non compliance of any of the specification, terms and conditions laid down herein and in the schedule hereto.
19. The delivery of the Equipment shall be made at PCT's of Kavaratti Island and Minicoy Island in good sea-worthy packing and within the period specified in the purchase order. The Supplier shall be responsible for the damages caused to the equipment/system due to improper and inferior quality packing of stores.

(Contd.....4)

20. Without prejudice to other rights under the terms of this agreement it is agreed that if SUPPLIER is delayed or prevented from fulfilling any of the duties or obligations under this contract by reasons of strikes, lockouts, fire, accidents, or any bonafide cause beyond the reasonable control by SUPPLIER and such delay or impediment occurs before the stipulated time of despatch it shall be the duty of SUPPLIER to set forth this case and request for extension of time for delivery or completion or erection and commissioning in working. Such requests will be considered on merits and extension of time to fulfill the contract shall be granted at the discretion of the Managing Director, LDCL or any other person authorised by him on his behalf.

21. In witness whereof SUPPLIER, M/s. have hereunto set their respective hands and seal the day, month and year first above written.

.....
.....

**Lakshadweep Development Corporation Ltd.
27/1038A, Panampilly Nagar, Cochin-682036**

In the presence of :

- 1)

- 2)

GUARANTEE

We, M/s. undertake to remedy within the time specified (subject to the under mentioned proviso) any defects arising from faulty design, material or workmanship which may develop within a period of 18 Months from the date of commissioning of the equipments as per the warranty terms specified in the purchase order. The items shall be replaced In the event of any failure / defect of the same arising out of the above reasons. A Guarantee Certificate in this regard shall be furnished along with the supply covering all the items as per the order and a performance guarantee as specified here in shall be established.

DOCUMENTS

Following documents will be treated as part of this agreement:-

- 1. Tender Notice No. dt.
- 2. Offer made by the Supplier, M/s.
- 3. Minutes of the Purchase Committee Meeting dated
- 4. LDCL Purchase Order No.....dt.

