

Speed Post.

**PRASAR BHARATI  
(BROADCASTING CORPORATION OF INDIA)  
OFFICE OF THE ADDITIONAL DIRECTOR GENERAL (E) (EZ)  
ALL INDIA RADIO & DOORDARSHAN  
18/3, Uday Shankar Sarani  
Golf Green, Kolkata : 700 095.**



No.P/2/QN/AC /DDK BBSR/02/12-13

Dated: 10/05/2012.

**1. DESCRIPTION OF THE WORK:** SITC of 2 x 7.5 Ton Air Cooled Ductable Type Split AC at Doordarshan Kendra Bhubaneswar as per enclosed Drawing & Specification- reg. Sealed tenders are hereby invited for and on behalf of the President of India from reputed firms for the following:

SL.NO	DESCRIPTION OF WORKS	QUANT ITY	CONSIGNEES
1.	SITC of 2 x 7.5 Ton Air Cooled Ductable Type Split AC at Doordarshan Kendra Bhubaneswar as per enclosed Drawing & Specification	One Complete job	IO/ DDG DDK Bhubaneswar

**The quotation must have the following details subscribed on the cover:**

a) Reference to this Enquiry Letter, b) Works for which the quotations are enclosed, c) Date of opening, d) Name & address of the firm & e) Two separate Envelopes for Price Bid & EMD.  
Note: The quotation submitted without proper wax / tamper proof seal will be rejected.

**2. EARNEST MONEY:** Earnest Money amounting to **Rs.16,000/-** [Rupees Sixteen thousand Only] in the form of Demand Draft on Nationalized Bank / Commercial Bank drawn in favour of **Prasar Bharati, O/O Chief Engineer (EZ), AIR & DD, Kolkata** should accompany the tender. EMD by means of Bank guarantee or any other mode of payment other than DD shall not be accepted. Tenders without EMD shall be summarily rejected and their bid will not be opened at the time of tender opening (No exemption for payment of EMD is accepted by this office)

**3. VALIDITY:** The tender should be valid for a minimum period of **six months** from the date of opening.

**4. DATE OF OPENING:** The quotation should be sent in a sealed cover addressed to the **ADG (E) (EZ), AIR & DD, Kolkata-95**, so as to reach on or before **1230 hrs on 28/05/12**. Enquiry letter No., date of opening and name of material should be super scribed on the envelope. The quotations will be opened in this office at **1500 hrs on 28/05/12**.

**5. PRICES:** The prices quoted should be firm and for free delivery at destination inclusive of Transit Insurance, Excise Duty and Entry Tax if any. Tenderer should quote on figures as well as on words the amounts tendered by them.

**Note; Payment may be made as per actual only.**

**6. SALES TAX:** The prevailing rate of ST/CST/VAT should be clearly mentioned in the tender separately. The following certificates are required to be submitted by the Contractor along with the bills:

“Certified that the goods on which the sales Tax has been charged have not been exempted under Central Sales Tax Act of the rules made there under”. The amount charged on account of Sales Tax on these goods is not more than what is payable under provision of the relevant act or the rules made thereunder.

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“Certified that we are registered as dealers on the State under registration No. \_\_\_\_\_ for the purpose of Sales Tax”. Any statutory variation in ST/CST/VAT taking place after acceptance of tender within the delivery date will be adjusted by the purchaser.

**7. EXCISE DUTY:** The prices should contain an element of Excise Duty, which should be indicated separately. Any statutory variation in Excise Duty taking place after acceptance of tender within the delivery date will be adjusted by the purchaser on production of documentary proof.

**8. SERVICE TAX:** If service tax / work contract tax is leviable by the concerned Central Government on work contracts, the same shall be clearly mentioned in the tender.

**9. DELIVERY PERIOD:** Tenderers may note that the entire SITC job shall be completed within 90 days from the date of the order.

**10. GUARANTEE/WARRANTY:** The Tenderer shall guarantee the complete Supply, installation, testing & commissioning of 2 x 7.5 Ton Air Cooled Package Type AC Plant at Doordarshan Kendra Bhubaneswar for a period of 12 months from the date of handing over after successful completion of work. .

**11. IT CLEARANCE CERTIFICATE:** The bidder shall submit the latest financial standing details supported by Income Tax clearance certificate along with the tender, without which the tender is liable to be rejected.

**12. EXPERIENCE:** The tenderer should give documentary proof of the following for having successfully carried out similar type of work.

a) Documentary proof for the previous experience may be furnished.

b) The tenderers should enclose the user list clearly mentioning the name of the users/installations..

**13. TECHNICAL SPECIFICATIONS :** See Annexure II.

**14. ACCEPTANCE / REJECTION OF TENDER:**

The Addl.DG(E) (EZ), AIR&DD, Kolkata reserves to himself the right to accept the lowest tender or reject one or all of the tenders received without assigning any reason.

**15. COMPLIANCE:** A point by point compliance statement, in respect of all the points, sub-points in the specification is to be enclosed along with the offer.

**16. GENERAL:** The above tender notice has been uploaded in the Web Site <http://www.ceeairdd.org>. Canvassing in connection with tender is strictly prohibited and the tenders submitted by tenderers who resort to canvassing will be rejected.

Enc 1: 1. General Terms and Conditions (Annexure-1)  
2. Specifications (Annexure II)



(K.PRAMANIK)  
ASSISTANT ENGINEER  
FOR ADG (E) (EZ), AIR & DD, Kolkata-95

**GENERAL TERMS AND CONDITIONS FOR WORK ORDER**

- 1) NAME OF PURCHASER :** The President of India
- 2) PAYING AUTHORITY :** The Addl.DG(E) (EZ), AIR & DD, 18/3 U.S Sarani, Kolkata-95.
- 3) PAYMENT TERMS :** 80% of the material cost will be paid after receipt of the material in good condition and 20 % of the material cost and Installation cost will be paid after satisfactory completion of the work at the site.
- 4) BILLS :** All the supplies and works shall be in conformity with the order and all the part bills shall be prepared in quadruplicate in the same format as that of the Work Order. All those part bills shall be submitted to the consignee for necessary certificates and onward transmission to the paying authority.
- 5) SECURITY DEPOSIT :** Contractor shall furnish the Security Deposit within 2 weeks after placement of order at the rate of **10% of the contract value** at the time of signing the contract. The security deposit shall be furnished in the form of Demand Draft / Bank Guarantee drawn in favour of the Chief Engineer (EZ), AIR&DD, Kolkata-95. The Security Deposit will be returned in full on completion of successful Guarantee/warranty Period.
- 6) DESPATCH INSTRUCTIONS:** The packing and marking of goods shall be as laid down in clause-12 of general conditions of contract DGS & D69 (revised). The contractor shall arrange to dispatch the goods duly insured direct to the consignee under prior intimation for delivery at site by whichever mode of transport he may choose, to ensure safe delivery of goods at site. Unloading shall be done at site at the contractor's expense. The consignee will provide only storage space. The contractor will provide his own security like locking etc., and store the materials at his own risk.
- 7) INSPECTION :** The material will be inspected at site. If any damages are found, material will be rejected.
- 8) INSURANCE:** The contractor shall arrange for the insurance covering the risk during transit, storage and installation till commissioning and the Contractor will bear all such insurance charges.
- 9) ADDITIONAL QUANTITIES:** The purchaser reserves the right to place order for additional quantity up to 50% of the ordered quantity at the same rates and terms and condition during the currency of the contract.
- 10) PENALTY FOR DELAY** If the contractor is unable to complete the supply, installation, testing and commissioning within the stipulated time limit the purchaser may at his option allow such additional time as may be considered justified with/without penalty and without altering terms and conditions of the order. In the event of failure of the contractor to complete the supply, installation testing and commissioning within the stipulated time or the extended time, the purchaser has the right to impose penalty of Rs 500/- per week or part thereof for every Rs.1,00,000/- of the contract price. The Contractor's liability for delay, however, shall not exceed 5% of the total contract price.
- 11) GUARANTEE/ WARRANTY:** The contractor shall accept clause-18 of the Form no. DGS & D-71 with exception that his obligation shall be limited for a period of 12 months from the date of taking over completion of the successful performance excluding down time during which the equipment was not working satisfactorily due to defective parts, faulty material/design/workmanship or faulty erection. During the guarantee period the contractor shall repair or replace free of charge any parts that will become defective due to faulty material design, workmanship or erection.

**12) CONDITIONS OF CONTRACT:** a. DGS & D-68 (Revised) and DGS & D-71 as amended upto date. However, such of these conditions stipulated on this tender shall supercede corresponding conditions in DGS & D-71.

b. The contractor shall sign a contract agreement form in triplicate in the prescribed proforma and submit the same along with Security Deposit within 15 days. The complete form with the purchaser's signature shall be sent back to the contractor. No supplies will be made and no work shall start unless the agreement is signed by the contractor and the purchaser.

**13) ENFORCEMENT OF LABOUR LAWS:** While engaging labour for carrying out obligations under the contract the contractor shall satisfy the conditions laid down under contract labour (Regulation and Audition) Act 1970 and (Central) Rules 1971 as amended from time to time and observe all formalities required as per the said Act/ Rules. The supplier shall also observe the provision under minimum wages act 1948(Central) Rules 1950 amended from time to time while engaging labour.

**14) ARBITRATION OF CONTRACTUAL DISPUTES:** In event of any dispute or deference between the parties arising whatsoever from this contract, the same shall unless amicably settled, be referred to a arbitrator, to be appointed by Addl. Director General (E) (EZ). Provisions of the Arbitration Act,1940 or any statutory modification or re-enforcement thereof and the rules made there under and for the time being enforced shall apply to arbitration proceedings under the rules.

It is a term of Contract that the party invoking arbitration shall specify the dispute or disputes to be referred to arbitration under this Clause together with the amount or amounts claimed in respect of such disputes.

The Arbitrator may from time to time with consent of the parties enlarge the time for making and publishing the award. The award of the arbitrator so appoint shall be final, conclusive and binding on both the parties hereto.

**15) FORCE MAJEURE:** a. If any time during the continuance of the contract the performance in whole or in part by the contractor shall be prevented or delayed by reason of any war, hostility acts of the public enemy. Civil commotion, sabotage, fires, floods, explosions, epidemics, Quarantine restrictions, strikes, lock-outs or acts of God (therein after restrictions refer to as events and provided notice of happenings of any such eventuality is given by the contractor within 21 days from the date of occurrence thereof, the purchaser shall by reason of such event, neither be entitled to cancel this order nor shall have any claim for damages against the contractor in respect of such non-performance or delay in performance and delivery shall be resumed as soon as practicable after such events have come to an end or ceased to exist.

b. Provided further that if the performance in whole or part or any obligation under this order is prevented or delayed by reasons of any such event for a period exceeding 180 days, the purchaser and the contractor shall meet to find a neutral agreement to any effect resulting the reform or the purchaser may at his option cancel order provided also if the order is cancelled under this clause, the purchaser shall be at liberty to take over from the contractor at order prices all unused, un-damaged and acceptable material bought out components and stores in course of manufacture in the possession of the supplier at the time of such cancellation or such portion thereof as the purchaser may deem fit accepting such material, bought out components and stores as the supplier may with the concurrence of the purchaser elect to retain.

**16) CANCELLATION:** a. The purchaser reserves the right to cancel the order in the event of non performance / delay in execution of the work or unsatisfactory performance by the contractor and recover payment already made if any, along with losses/ damages incurred.

**ANNEXURE-II**

**Technical Specification & scope of work**

**1. INTRODUCTION**

1.1 The air conditioning plants shall be installed in the Transmitter room. All equipments should be designed for operation from 400/415 Volts, 3 phase, 50 Hz AC supply.

**1.2 Ductable AIR CONDITIONER**

The compressor/motor unit should be properly sealed against dirt and moisture. The compressor should be suitably mounted on vibration absorbers. The compressor/motor units shall be rated for continuous working under tropical conditions and shall be provided with suitable starter incorporating overload, under voltage protection and also with single phasing preventers. The compressor motor shall be provided with thermal protector, preferably winding embedded to ensure automatic switching off of the motor when the winding temperature tends to go beyond safety limits. Provision for interlocking the compressor motor with blower motor and condenser cooling fan motor shall be available.

1.2.1 The condenser shall be air cooled outdoor type and its heat rejection capacity should be adequate to match the system. The condenser coils shall be of copper tubes with aluminium fins.

1.2.2 The evaporator coil shall be made of copper tube with aluminum fins. Its capacity shall be adequate so that the evaporation coil shall cool and dehumidify the quantity of air specified. It should match fully with the compressor offered.

1.2.3 The centrifugal fan of the blower shall be statically and dynamically balanced and shall be capable of discharging at least 3000 CFM. The fan motor shall be rated for continuous duty and shall conform to the relevant IS specification.

1.2.4 Air filter shall be provided in the return air path. The filter shall be dry, cleanable type, rejection capacity down to 10 Microns.

1.2.5 The thermostatic, switch which shall be operational between the temperature range of 20 Deg.C to 30 Deg.C for cutting out and bringing in the compressor shall be provided in the return air path.

1.2.6 The air conditioning unit shall be completed with all internal refrigerating piping, electrical wiring and control switches necessary for the control and operation of the equipment within the unit. It is desired that different sections of the plant are built on modular construction. There shall be provision to mount the air cooled condenser separately a few meters away from the main plant at appropriate location on roof top or at the ground floor as per the site condition ( to be decided in consultation with the station) with minimum refrigerant pipe length.

1.2.7 The compressor shall be suitable for HCFC (R-22 or R134a) refrigerant.

1.2.8 The first charge of refrigerant and oil shall be included in the supply.

### **1.3 SWITCH BOARD AND WIRING**

- 1.3.1 One cubicle type switchboard with an incoming MCCB, bus bar and individual MCCB units for each plant has to be provided in the AC plant room. The bus bar shall be three phase and neutral copper bus bar adequately rated for the load. The switchboard shall be provided with at least the following minimum indicators/instruments etc.
- a) Digital Voltmeter with selector switch for measuring the voltage of all the 3 phase.
  - b) Separate ammeter with selector switch of suitable range for each plant.
  - c) The switch board shall be provided with LED type phase indicator in each phase.
  - d) Indicators shall be provided on the switchboard to indicate the functioning of individual plants.
- 1.3.2 The wiring in Transmitter room for AC equipment shall be carried out in concealed conduits as per site condition. Necessary conduits shall be provided and buried in walls/floor by the tenderer. Alternatively cables may be neatly taken on cable trays above 2300 mm heights. Copper conductor PVC cables of 1100 V rating shall be used for wiring of various equipment.
- 1.3.3 The switch board, electrical equipment and wiring shall conform to the relevant IS specification.

### **1.4 CIVIL WORKS**

1.4.1 Condenser shall be mounted at appropriate location on roof top or at the ground floor as per the site condition with the consultation of zonal office/station with minimum refrigerant pipe length. Therefore foundation blocks with vibration isolation pad shall be provided for each outdoor condenser unit to avoid transfer of vibration from machine to the structure.

### **1.5 TRAINING**

The tenderer shall undertake to extend free training in operation and maintenance of AC Plant offered by them to four technical personnel from AIR during installation/ commissioning/testing of the plant as per clause 1.10 of section-I

STATEMENT OF TECHNICAL SPECIFICATION AND PERFORMANCE

Sl. No.	ITEMS	
	A. AIR CONDITIONER:	
	i) Ductable air conditioner make	
	ii) Ductable air conditioner type	
	iii) Guaranteed refrigerating capacity of air conditioner for return Air conditions of 26.7 Deg.C DB and 17.9Deg.C WB	Kal/Hr.
	B. COMPRESSOR UNIT:	
	i. Refrigerating capacity Kcal/Hr. 50 Hz operation of the motor	Kal/Hr
	ii. Number of compressors per AC plant	
	iii. Capacity	
	iv. Refrigerant (name) Quantity	
	C. AHU BLOWER	
	i) Blower (Fan) speed	R.P.M.
	ii) Make & HP of blower motor	
	iii) Speed of blower motor	R.P.M.
	D. COOLING COIL	
	i. Coil face area	Sq. mtr.
	ii. Number of Rows	
	iii. Fins per cm.	
	iv. Make & H.P of fan motor	
	E. AIR COOLED CONDENSER	
	i. Coil face area	
	ii. Number of Row	
	iii. Fins per cm.	
	iv. Make & H.P of fan motor	
	v. Speed of Cond. Fan	R.P.M.

**Schedule of Requirement for SITC of 2 x 7.5 Ton Ductable split AC at DDK Bhubaneswar**

S.No	Description	Quantity.	Rate	Amount
1	Air-conditioning equipment consisting of ductable type Split AC plant 9000 BTU/HR. (nominal) refrigerating capacity, complete with twin Rotary type of compressor, matching air-cooled condenser, Cooling coil, blower with sensible microprocessor control	2 nos.		
2	Refrigerant Suction 0.40 mm thick copper pipe size 7/8" dia duly insulated with 9mm thick nitrile rubber between inner and outer unit of Ductable units upto 15 m length.	2 Lots		
3	Refrigerant Discharge 0.40 mm thick copper pipe size 1/2" dia duly insulated with 9mm thick nitrile rubber between inner and outer unit of Ductable units upto 15 m length.	2 Lots		
4	Electrical integrated switchgear, Panel made of CRCA sheet 2 mm thick with 1 x 100A 4 Pole MCCB for main income and 2 X 63A 4 Pole MCCB for outgoing with necessary bus bar and indicating LED lamp and voltmeter and Amp.Meter etc. Internal cabling, control wiring, earth wiring with 6 gauge copper wire and accessories etc	1 Set		
5	Civil works: Anti vibration ceiling mountings, isolation pads/hooks for air-conditioning plants.	1 Lot		
6	Double Layer fire Proof canvas cloth connection with suitable flange couplings.	2 Sets		
7	Condensed water drain G.I. Pipe 32 mm dia with accessories	2 Sets		
8	Erection of the plant at site, commissioning and testing	2 Job		
9	GI pipe earthing with 3 meter long 40 mm dia GI pipe class "C" earth electrode, adding of charcoal or coke. Providing masonry enclosure and MS cover plate etc. including connections with 6 SWG copper wire,.	2 Job		
10	Galvanized sheet steel ducting work with 24G/22G for supply and return air duct with necessary acoustic insulation and replacement of diffusers etc. as per enclosed drawing	1 Job		
11	Dismantling of existing AC Plant & ducting system	1 Job		
12	Buy back Price of dismantled AC Plant and ducting materials	1 Lot		