

Directorate of State Educational Research and Training – Karnataka

No:ETC-4/EDUSAT/ROT repair 01 /12-13

Date:01/01/2013

"TENDER NOTIFICATION"

To replace/repair/ Refurbishment and Operationalisation of equipments along with
AMC

TENDER DOCUMENT

Address for communication

Director

At Dept., of State Education Research & Training

100 Feet Ring Road, Banashankari 3rd Stage,

Bangalore - 560085

Phone: 26422372, 26422373, 26422374

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Directorate of State Educational Research and Training- Karnataka
100 Feet Ring Road, Banashankari 3rd Stage,
Bangalore - 560085

1. Invited for tender to replace/repair/refurbishment, Operationalisation of equipments along with on site comprehensive maintenance of ROTs in Bangalore Rural and Ramanagara districts in Karnataka
2. The document is available on the website <http://www.eproc.karnataka.gov.in> which can be downloaded. All subsequent notifications, changes and amendments on the document, if any, would be posted only on the same website.
3. The bidders will be required to register themselves with the Centre for E-Governance to participate in the bidding process and get necessary digital signature certificates. The details of the process of registration and obtaining the digital signature certificates are available on the same website: <http://www.eproc.karnataka.gov.in>. Necessary training and hands on experience in handling e-procurement system could be obtained from the centre for E- Governance at Bangalore. Details on help on this aspect could be sought on telephone number 080-26422372, 26422373, 26422374

Tender reference and Date	ETC-4/EDUSAT/ROT repair 01 /12-13, Dated: 01-1-2013
Date of commencement of tender downloading on web site	02-01-2013
Pre- bid meeting	08-01-2013
Last date and time for submission of bid in two cover system	31-01-2013
Date and time of opening of Technical Bid	04-02-2013
Date and time of opening Financial Bid	08-02-2013
EMD amount payable electronically only	Rs 5,00,000

5. For further details towards facilitation of tender document related issues please contact Office of the Director, DSERT, no.4, 100 ft out ring road, Hosakere halli, Banashankari III stage, Bangalore-560085 during office hours or call office phone numbers 080-26422372, 26422373, 26422374

**Director, DSERT,
Bangalore**

Directorate of State Educational Research and Training- Karnataka

100 Feet Ring Road, Banashankari 3rd Stage, Bangalore - 560085

A Brief information on "REQUEST FOR PROPOSAL" (RFP)

1 "REQUEST FOR PROPOSAL" (RFP) to replace/repair/refurbishment, Operationalisation of equipments along with on site comprehensive maintenance of ROTs in Bangalore Rural and Ramanagaradistricts by Director, DSERT, Bangalore

2 Particulars of number of ROTs situated are as indicated in the table (1) below.

Table-1

Sl No	Name of the district	Number of ROTs
1	Ramanagara	406
2	Gulbarga	427
	TOTAL	833

3 Proposals in Electronic Form are invited from Firms/ Companies/ Organizations with experience in replace/repair/refurbishment, Operationalisation of equipments along with on site comprehensive maintenance of ROTs to participate in the tender

4 The proposal is to be submitted along with Earnest Money Deposit (EMD) /Bid security of **Rs 5.00 Lakh**. The EMD shall be kept valid for at least 90 days in addition to the Proposal Validity Period. In case if the proposal validity period is extended by the tendering authority, the EMD shall be extended for such extended period.

5 The Bid Security / EMD should be credited to the account of Centre for E-Governance

- a) Through Credit Card
- b) Internet Banking
- c) National Electronic Fund Transfer

d) Axis Bank

6 The Bidders' bid will be evaluated only on confirmation of receipt of the payment (EMD) in the GoK's central pooling a/c held at Axis Bank.

7 EMD amount will have to be submitted by the Bidder taking into account the following conditions:

- a) EMD will be accepted only in the form of electronic cash (and not through Demand Draft or Bank Guarantee) and will be maintained in the Govt.'s central pooling account at **Axis Bank** until the tendering process is concluded.
- b) The entire EMD amount for a particular tender has to be paid in a single transaction.
- c) The EMD will be returned to the unsuccessful Bidders within a period of eight (8) weeks from the date of announcement of the Successful Bidder.
- d) The EMD submitted by the Successful Bidder will be released upon furnishing the Performance Security in the required form and manner as stipulated in the Agreement.

8 The EMD shall be forfeited in the following cases:

- a) If the Bidder modifies or withdraws the Proposal;
- b) If the Bidder withdraws the Proposal during the intervening period of the Proposal due date and expiration of the Proposal Validity period;
- c) If the Successful Bidder fails to provide the Performance Security within the stipulated time or any extension thereof provided the Tendering Authority;
- d) If any information or document furnished by the Bidder turns out to be misleading or untrue in any material respect;

9 The letter of invitation, terms of reference and information for Firms/ Companies/ Organizations are enumerated in this request for proposal.

End of RFP

Scope of Work with Terms and Conditions

Introduction

Under the Edusat Programme, ROT (Receive Only Terminal) Networks are established in the districts of Bangalore Rural and Ramanagara in Karnataka. In both of these districts 833 (406+427) government primary and higher-primary schools have the ROT systems to receive the lessons transmitted from the studio at DSERT, Bangalore. This network was established during 2008-09. The configuration of the ROT systems is provided in the sections below.

1 Scope of Work:

- 1.1 Bidder should plan for a site survey of the ROT sites to make the assessment, and submit a consolidated site report of the ROTs to DSERT, BANGALORE. The Site report should contain details of condition of each item/equipment, whether functional / damaged /missing etc. The detailed report should contain the requirements of items / consumables to make such ROTs fully operational within 90 days from the day of issue of work order by DSERT.
- 1.2 Replacement of failed batteries in 406 sites in Ramanagara District and 427 sites in Bangalore Rural district installed with Solar Pack as part of ROTs/ Solar Pack of ROTs
- 1.3 Refurbishment of failed/missing hardware elements in both the districts Bangalore Rural and Ramanagara
- 1.4 Operationalisation of all the ROTs in both the districts by re-tuning to new frequencies. The exact frequency and parameters will be furnished at the time of placing order.
- 1.5 On-site comprehensive maintenance of ROT systems in Bangalore Rural and Ramanagara districts in Karnataka. The site details are as attached in annexure-III.
- 1.6 Site Hardware: The ROT system configuration (Ku – Band) consists of the following equipments:
 - 0.9 Mtrs Antenna
 - LNBF
 - IFL Cable
 - Set top box
 - AV Cables and Connectors
 - 26"LCD Color TV
 - Solar Pack for 2.5 hrs operations per day
 - Cabinet for all the indoor equipments

Date:
Place:

Signature of the tenderer

- 1.7 The eligible bidders can visit the sites mentioned under Annexure III for assessing the replacements, repairs and refurbishment and have to submit the Technical and Financial bid within the last date mentioned in this RFP.
- 1.8 The bidder has to co-ordinate with the user-agencies and the site-in-charges and nodal officers for making the systems operational and also for the subsequent AMC activities.
- 1.9 After Operationalisation of ROTs the bidders has to submit an implementation report for every site, including the inventory of equipments. Bidders shall provide typical formats of the above reports. However the final versions shall be formulated with DSERT, BANGALORE.
- 1.10 The bidder has to make at least 4 preventive maintenance visits to the schools during the AMC, apart from attending the complaints as and when reported.
- 1.11 The bidders has to establish an exclusive CALL CENTER with dedicated manpower through dedicated telephone, email facilities for receiving all the complaints during AMC.
- 1.12 The CALL CENTER must also receive the complaints from the users of ROTs other districts, etc. under the Edusat ROT Network established in Karnataka.
- 1.13 The bidders shall submit the reports of AMC to DSERT,BANGALORE/User Nodal Agency, on monthly basis, on the following:
- List of Complaints registered with dates
 - Report on complaint resolving
 - Report of PM visit & update of inventory of each terminal during each PM cycle.
- Bidders shall provide typical formats of the above reports. However the final versions shall be formulated with DSERT, BANGALORE.
- 1.14 The bidder has to clearly mention their Operationalisation plan and AMC methodology.
- 1.15 The bidder must execute any reconfigurations and change of consumables (including batteries) of the ROTs suggested by DSERT, BANGALORE as part of PM visit during AMC.
- 1.16 The bidder has to clearly mention the time schedule for Operationalisation of the ROT networks in both the districts. However, this activity must not exceed 12 weeks from the date of issuing purchase order.
- 1.17 During Operationalisation and AMC activities, the bidder shall coordinate with respective HUB/Nodal Agency for obtaining transmission support.
- 1.18 The AMC comes into effect after Operationalisation of the ROT networks. The start of AMC will be ascertained by DSERT, BANGALORE/User Agency after reviewing the activities of Operationalisation.
- 1.19 QUALIFICATION TO APPLY:
- The service provider should have handled similar projects, with ISRO for the supply & maintenance of "KU" band ROT

- The vendor should have field experience in reworking/repairing of large ROT Network.
- The service provider should have VAT registration and Service Tax registration.
- The service provider should compulsory attach a proof of purchase order for carrying out similar project.

1.20 If services are found not satisfactory during any time of the contract, DSERT, BANGALORE will have all the right to terminate the contract for the remaining period. If BIDDER is not able to repair 70% of the complaints in 4 days time, received in a month will be treated as unsatisfactory and DSERT, BANGALORE can terminate contract by giving one months notice.

Date:

Place:

Signature of the tenderer

2 OTHER TERMS AND CONDITIONS:

- 2.1 The term of the AMC is one year. Extendable to TWO years on the same terms and conditions, subject to satisfactory performance and availability of resources.
- 2.2 The bidders shall confirm the compliance to every point in the RFP. Any non compliance/deviations should be clearly mentioned.
- 2.3 The bidders may seek clarifications before the submission of the offer if any.
- 2.4 The bidders shall attend technical discussions and commercial negotiations, if required.
- 2.5 The bidders must submit two parts quote (Technical and Commercial) in a sealed envelope super scribing the reference Number & due date, etc.
- 2.6 The bidders should quote for all the ROT elements individually, in different quantity slabs.
- 2.7 The bidders should quote separately for :
 - i. Operationalisation of ROTs
 - ii. Replacement of Batteries
 - iii. Annual Maintenance Contract
- 2.8 The typical specifications for the ROT elements are provided in this bid document. The bidders must clearly provide compliance to every parameter. The deviations must clearly highlighted
- 2.9 The bidders must enclose the original data sheets for all the equipments. Any offer without datasheets will be liable for rejection without any further information.
- 2.10 All the elements quoted must be of standard quality manufactured by reputed manufacturers.
- 2.11 The proposed elements like TV, STB, UPS, Solar Pack etc., must have the support for repair and serviceability in India, preferably in Karnataka.

- 2.12 The consumables like battery, AV cables, connectors etc., must be of standard quality and must be readily available in open market for the end users to buy directly, if required.
- 2.13 The validity of the quote shall be minimum 120 days from the date of submission.
- 2.14 Expenditure related to all logistics and transportation for replacement of parts/ Sub-systems / components has to be borne by the bidders.
- 2.15 Bidders should cover transit insurance for value of the materials to be transported. This insurance policy shall cease once the equipments are safely handed over to the custodians of the respective schools.
- 2.16 The faults reported from the ROTs must be attended and the ROT must be operationalised within 4 working days time after receiving the fault complaint. For each 24 hours of delay after 4 working days, bidders has to pay 0.5 % of total AMC cost of all ROTs as downtime compensation to DSERT, BANGALORE.
- 2.17 The payment shall be made at end of each quarter on Pro-rata basis. Bills along with copies of service reports / log sheets duly certified by the site in-charges and nodal agency shall be sent to Sr. Purchase, DSERT, Bangalore
- 2.18 All channels of the receivers shall be tuned to the same receiving frequency to avoid mishandling of the equipment at the user end. Bidders shall provide Factory Lock / a facility to Receiver Lock/Password protection to avoid mistuning.
- 2.19 The bidders shall be responsible for any loss or damage caused to property at site due to the negligence of their personnel during the Traffic Transfer.
- 2.20 DSERT, BANGALORE will not be responsible for any injury or loss to the personnel, caused due to natural calamities/accidents/explosions/negligence, etc. at site.
- 2.21 The bidder shall submit an indemnity bond indemnifying user from claim for any injury / damage / death to any of their persons during operation of this contract.
- 2.22 If the bidder fails to produce the required document Director DSERT will have full powers to call for the documents or to reject the request/bid.
- 2.23 If the prices quoted by the bidder are beyond the expected cost of DSERT, BANGALORE, the tender may get cancelled without any further reasons/notifications to the bidders.
- 2.24 The bidders shall submit two sets of TECHNICAL BID AND FINANCIAL BID separately along with EMD.

Date:
Place:

Signature of the tenderer

SPECIFICATIONS OF THE RECEIVE ONLY TERMINAL (ROT) SYSTEM

1 Antenna system

Ku-band Rx frequency	10.7 to 12.7 GHz
Aperture:	90 cm (Ku-band)/ 1.2m (Ku-band)
Gain (Typical)	39 dB @ 11.85 GHz (90 cm antenna) 41.5 dB @ 11.85 GHz (1.2m antenna)
G/T (Minimum) @50° EI (At gain specified freq.)	19.0 dB/K (90 cm antenna) 21.5 dB/K (1.2m antenna)
EI movement	10-90°
Az Movement	+/- 180°
Wind (Operational)	100 Km/Hour
Wind (Survival)	200 Km/Hour
Mount	Penetrating

Note: (1) Bidder shall provide make, model and detailed specifications of antenna system like reflector type, optics, material, mount type & material, beamwidth, feed return loss and isolation, etc., in his technical proposal. (2) Bidder shall provide the break-up of the G/T including total noise temp. of the system, in his technical bid.

2 Digital Set Top Box (DVB-S Satellite Receiver)

Input Frequency Range	950-2150 MHz
I/P level	-25 to -65 dBm
Channel selection	PLL synthesizer
System	DVB-S/DVB-82
Modulation	QPSK/PPSK
I/P Impedance	75 Ohm
Connector (I/P)	75 ohm female
Symbol Rate	1 MSPS to 45 MSPS
Video decoder	MPEG-2 ISO/IEC 13818
Video Format	4:3, 16:9
Video Transfer Rate	15 Mbps or better
TS Data Rate	60 Mbps
Video Resolution	720*576 PAL
Audio Decoder	MPEG-1, MPEG-2, MPEG-Layer3
Audio Mode	Mono, Stereo
Sampling Rate	32, 44.1, 48 KHz

Memory

FLASH	16 Mb (2 Mbyte)
SDRAM	64 Mb (7 Mbyte)
EEPROM	2 KB/64kB
A/V Output	Video: 1xRCA, Audio: 2xRCA
Data Port	RS 232 up to 115200 bps
Bypass of analog free to air RF	Yes

Power Supply

I/P Voltage	90-270 V, 50 Hz +/- 5%
Type	SMPS/Adapter +DC-Dc converter
Power Consumption	<20 W
RF Modulator	PAL-B for VHF, PAL-G for UHF
RF O/P Channel	UHF Channel ¾; Agile/UHF
RF O/P Level	60 dBu V to 80 dBu V
C/N Ratio	44 dB

Date:

Place:

Signature of the tenderer

Physical

Weight	< 2 Kg
Operating Temperature	0-50 ^o C
Humidity	5-95%, non condensing

3 Digital LNB

Low Band I/P Freq Range	10.95-11.7 GHz (Ku-band)
O/P Frequency Range	950-1700 MHz
Noise Figure	0.6 dB, Typical (Ku-band)

(Note: The bidder should choose the LNB noise figure such that the G/T specification of the respective ROT is met)

LO stability @ 25deg C +/- 1 MHz (Ku-band) or better	
LO stability over full temp range +/- 2 MHz (Ku-band) or better	
LO Phase noise @ 1 KHz	-55 dBc/Hz, Typical
@ 10 KHz	-75 dBc/Hz, Typical
@ 100 KHz	-95 dBc/Hz, Typical
Conversion Gain	55 dB, Typical
Gain Variation	1 dB pk-pk/27 MHz
Image Rejection	40 dB, Min
O/P 1 dB Compression Point	+1 dBm, Typical
Cross Talk Isolation	20 dB, Min
O/P Spurious	-60 dBm, Typ
I/p & O/P VSWR	2.5:1
Operating Temp.	-40 to +60 ^o C
Relative Humidity	Up to 100% condensation and frost
Weight	< 150 gm

4 Solar Power Pack

Solar Array	222 WP
Battery Bank	
Type	Low Maintenance Tubular
Terminal Voltage	12 V
Capacity@ C/10	75 Ah / 110 Ah
Inverter	
Input	12 V, DC
O/P Power	300 VA
Waveform	Quasi sine
Voltage	230 V, AC, 1-phase, 50 Hz
Charge controller	
SPV Voltage (nominal)	16.5 V
Charging Current	15 A
Load/Inverter	
Voltage	230 V, AC, 1-phase, 50 Hz
Wattage (Max)	190 VA
Operation per day	2.5 Hrs.
Load Details	
Colour TV- 29 inch	150 W
Set Top Box	20 W
Load Power Factor	0.9 pf
System Specifications	
Solar Insolation per msq per day	5kWhr (average)
Battery Back up (@ 80% DOD)	720 Whr
Back-up @ load of 200 VA	3.5 hrs.
Estimated Energy output from Solar pack per day (at std. Operating conditions)	500 Whr

Date:
Place:

Signature of the tenderer

5 29" Colour Television with Audio & Video inputs and Remote Control

Currently, 29" flat screen colour TV of SAMSUNG is installed as part ROT configuration. It is understood that 29" CRT color TV has become absolute and many TV manufacturers have stopped producing it. Hence the bidder may quote for 26" LCD TV for replacement of failed 29 "CRT TV. The minimum required specifications are:

Sl. No.	Specifications	
1	Visible Diagonal	26" LCD TV
2	Screen Aspect	4:3
3	Image Scan	50Hz
4	Sound Functions	
		Line Stereo (AV Stereo) / Mono
		Auto Stereo
	Multiple audio module	Base / Treble / Balance control
5	Speaker Type	Direct
6	Sound Output (Main L/R)	10W/10W
7	Sound output (Total)	20W
8	Samsung Sound Effect	Turbo+
9	Other Features	
		Channel Skip
		Channel Add/Erase
		On/Off Timer
		Previous Channel
		Sleep Timer
		Auto Clock Set / Manual Clock Set (Manual)
		Child Lock
		Auto Power Off
		Mute
		Remote Control
11	Picture Size Control	Zoom & Wide
12	Terminals	
		Rear back
		Side Composite (AV)
		Rear ANT. (RF)
		Rear Composite (AV)
13	Primer Power	230V AC±10%
14	Warranty	3 years
15	Operating temp	-10 to 50°C
16	Power consumption	around 100 W

Note:

- 1) TVs of only standard brands like Samsung, Sony, LG etc. need to be quoted.
- 2) The OEM of the TV should have very good service/maintenance facilities across the country.
- 3) Bidder, in his technical bid, shall submit the documentary evidence (copy of the purchase orders/certificates of satisfaction issued by previous customers, etc.) substantiating the ruggedness and reliability of the TV sets proposed by him, in form of previously supplied and already operational network/networks using these TV sets.
- 4) TVs should compulsorily have environmental temp specification of -10°C to 50 °C or better.
- 5) Tuning lock facility and restoration of last settings while switching on by default must be provided.
- 6) The bidder shall quote 26" LED TV as an option additionally.

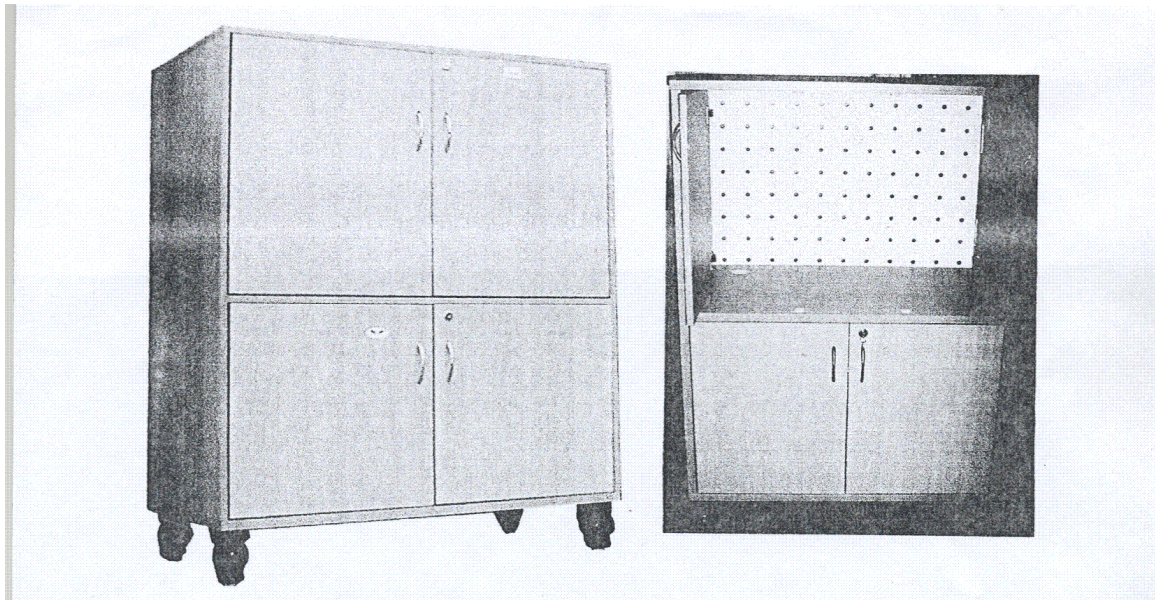
Date:

Place:

Signature of the tenderer

8 Wooden TV Stand cum equipment Cabinet

1. For 29" colour TV, the cabinet with floor-stand will be used and this cabinet shall have a provision to mount all indoor equipments like STB, UPS, etc.
2. Made of high quality pre-laminated board with edge banded with PVC beading.
3. Modular knockdown construction for easy transportation and assembly at site.
4. Suitable partitioning for IRD/set top box, UPS and batteries and TV using pre-laminated board. Separate sections for keeping UPS & batteries, and STB. Proper ventilation for heat dissipation generated by batteries.
5. TV partition to be fitted with double doors of sliding type so that they do not project outside in open condition.
6. Should accommodate and withstand load of all indoor equipment including one 29" colour TV (if opted for), set top box, UPS and batteries (if opted for), etc.
7. Ventilation at side using perforated wooden sheet for air circulation
8. Easy opening of front door and facility for locking.
9. Master key, which can be used to open locks of all the supplied cabinets
10. Two standard cable-manager holes of about 3"dia to be provided.
11. Protection from access to rodents, rats, etc.
12. A thin mesh sheet at rear panel to avoid insects, lizards, etc.
13. The front view of the cabinet is given below for indicating the type of cabinet and arrangements of compartments required under this contract. Bidder shall give detailed drawing and photograph of the proposed wooden cabinet in his technical proposal.



Date:
Place:

Signature of the tenderer

ANNEXURE-1
TABLE-1

TECHNICAL BID

Tender submitted in response to tender notification No-----dated: ----- of the Commercial Taxes Department in relation to supply of materials:

1. Name and full address of the tenderer :
2. Name and telephone number of the contact person:
(On behalf of the tenderer)
3. Registration Certificate Number (TIN) under the Sales Tax Act / VAT Act:
4. PAN issued by I.T Department (No. and date of issue):
5. Full address and telephone number of the office of the Assessing Authority under the Sales Tax/VAT Act:
6. Sales Tax clearance certificate (No. and date):
7. Number and date of the certificate / dealership Authorization letter issued by original equipment Manufacturer (OEM) for having appointed the Tenderer as the authorized seller / distributor of 'Printers':
8. Annual sales turnover of the OEM during: 2009-10 2010-11 2011-12
9. Name/s, contact number/s of authorized person of any Two Govt. Organization/s to which the tenderer has Supplied similar products

Declaration

I _____, the tenderer, have read and understood the terms and conditions laid down by Commissioner of Public Instructions in the RFP in relation to this tender and I undertake to supply the said products as per the said terms and conditions.

Date:

Place:

Signature of the tenderer

Table-2

GENERAL INFORMATION ABOUT THE BIDDER

1	Name of the Company/ Firm	
2	Address (of both H.O and Branch office)	
3	Telephone Number (s)	Phone: Fax:
4	E-mail	
5	Website	
6	Legal Status	Public Ltd., Co.,/ Private Ltd. Co., /Partnership firm/ Proprietary concern.
7	Date of Establishment / incorporation	
8	Quality Certifications attained by the firm	
9	Details of the contact person of the bidder for future correspondence <ul style="list-style-type: none">• Name• E-mail• Phone/mobile	
10	EMD details	Name of the Bank: Rs: EMD Valid up to

Date:
Place:

Signature of the tenderer

Table-3

DETAILS OF BRANCH OFFICES/SERVICE CENTRES / FIELD OFFICES OF THE BIDDER IN KARNATAKA

Sl.No	Location address	Address & phone No.	Date of establishment	Staff strength

Date:
Place:

Signature of the tenderer

Table-4

Technical solution offered by the bidder in relation to this tender

- Understanding about the scope of the work
 - Execution plan and tie-up with other bidders, if any.
 - Support team deployment and places
 - Make Model and Specification of the items/products listed in the tender notification to be mentioned.
 - Name and details of software's being supplied for integration of the devices.
 - Maintenance support details and spares availability at the service centre's
 - Quality of service support
-
- A brief note by the bidder on the project scope to be provided. The bidder has to define the solutions being offered, his understanding of the project, issues related to the project and risks involved in the project.
 - It should also include project management, deployment plan, Maintenance plan, security plan, risk management.

Date:

Place:

Signature of the tenderer

TABLE-5
FINANCIAL BID

Tender submitted in response to Tender Notification No.-----, dated: / /2012 of the Directorate of State Education Research and Training in relation to replace/repair/refurbishment, Operationalisation of equipments along with on site comprehensive maintenance of ROTs in Bangalore Rural and Ramanagara districts. The bidders should quote separately for:

- i. Operationalisation of ROTs
- ii. Replacement of Batteries
- iii. Annual Maintenance Contract

Description	Value in Rs
1. Value for a site survey of the ROT sites to make the assessment per site	
2. Value for all replace/repair/refurbishment, Operationalisation of equipments along with on site comprehensive maintenance of ROTs in Ramanagara District inclusive of all taxes and duties if any.	
3. Value for all replace/repair/refurbishment, Operationalisation of equipments along with on site comprehensive maintenance of ROTs in Bangalore Rural District inclusive of all taxes and duties if any	
4. AMC for one year per site	
5. Total	

Details of 2 and 3 details are to be provided as under: List of components as per specifications and models mentioned in page 8 to 11

S.L.No	Particulars	Brand	Unit price for Ramanagara	Unit price for Bangalore Rural
1	90cm dish antenna full system			
2	LNBF Clamp			
3	LNBF side supporting Rod			
4	RG6 Cables 30 mtrs with connector			
5	LNBF			
6	STB with Remote			
7	STB Remote BEL			
8	STB Adaptor 12V 1.5AMP			
9	Solar panel 74 watt each			
10	Solar Frame			
11	Solar Interlink Cable per mtrs 1.5 sq mm			
12	Solar Main Cable 20 mtrs 4 sq mm			
13	850Va inverter			
14	Solar Charge Controller			
15	75 AH SMF Battery or 110 AH			
16	26" LCD TV			
17	TV Remote Samsung			
18	AV Cord 1.5 mt Length			
19	TV Cabinet Repair overall			
20	AA & AAA Remote Battery			
21	TOTAL			

1. Name and full address of the tenderer:

Date:
Place:

Signature of the tenderer