

PART 4.0

PART 4.1(A) : SCHEDULE OF REQUIREMENTS / MATERIALS UNPRICED) (OPTIONAL) {The tenderer must quote all items}

FOR ONE SET OF TRANSMITTER & ASSOCIATED EQUIPMENT)

S NO.	Description	Unit	Qty Jammu Region	Qty Srinagar Region	Qty Leh Region
1.	Training Charges at Delhi for AIR engineers for complete system for 3 working days.	number	1 number	1 number	1 number
2.	A set of RF, DC power supply and control cables with appropriate connectors , extender cables and extender cards etc.	Set	1 Set Complete	1 Set Complete	1 Set Complete
3.	<p>List of recommended spares and any other accessories.</p> <p>Items wise details of the offered material (including part number, if any) are to be given by the tenderer.</p> <p>In case of kits, full item wise details of kits are to be provided.</p> <p>Tenderer should quote the rate / cost of individual items/unit/spares in the tender offer while submitting the offer for spares.</p> <p>Recommended Spares for One set of transmitter : These should include:</p> <ol style="list-style-type: none"> i. IPA, PA MOSFET / Sub Modules ii. PCB's / Interface Cards/modules iii. Kit for spares comprising of Low power semi conductor devices/ MOV/Tunnel Diodes, IC's/L.S.I.,PCB's/Interface Cards/modules, Switches/ Opto couplers/ Transducers & Meters/ Displays etc. iv. Spare Modules IPA and PA. v. Sub assemblies/Changeover Units vi. Spare power supply unit vii. Complete control unit/Microprocessor Controller viii. One set of filter ix. Blower with motor x. Other miscellaneous items including power combiner, its sub-systems, harmonic filter, absorbers, etc. 	Set	1 Set complete	1 Set complete	1 Set complete

24th December, 2010

* Exact Length will be as per sites requirement.

** Exact sets will be as sites requirement

Rate shall be quoted per Item wise per number/per meter/ per job along with each quantity by the tenderer)

(Item wise details along with each quantity to be given by the tenderer)

^ Items are to be supplied by tenderer including lugs, connectors etc.

Specification no: SETC-10 KW TX (1+1) AIR & DD /J&K /1/ November/ 2010/D (TD/FM)

4.	Recommended Spares for 10 kW Dummy Load and thru line power meter etc.	Set	1 Set complete	1 Set complete	1 Set complete
5.	Spare element for thru line power meter, 15,000 W	number	1 number	1 Set complete	1 Set complete
6.	Spare element for thru line power meter, 1,500 W	number	1 number	1 Set complete	1 Set complete
7.	Recommended Spares for RF Coaxial rigid lines	Set	1 Set complete	1 Set complete	1 Set complete
8.	Recommended Spares for automatic changeover unit (1+1)	Set	1 Set complete	1 Set complete	1 Set complete
9.	Recommended Spares for Motorised RF Coaxial change over Switch	Set	1 Set complete	1 Set complete	1 Set complete
10.	Recommended Spares for FM Mono and Stereo Mod Monitor to be used in – tandem with RF amplifier as per specification.	Set	1 Set complete	1 Set complete	1 Set complete
11.	Remote Control & Telemetry Equipment as per Section -II and Section-III. Remote Control & Telemetry Equipment via distant/centralized location via ISDN/Digital lines/TCP-IP / PSTN network/VSAT				
11.1	General Purpose PC complete as required	Set	2 Sets	2 Sets	2 Sets
11.2	Remote Control System complete as required	Set	1 Set	1 Set	1 Set
11.3	Wiring Interface Unit	Set	1 Set	1 Set	1 Set
11.4	Dial line Suppressor	Set	1Set	1Set	1Set
11.5	External Modems	Set	2 Sets	2 Sets	2 Sets
11.6	Complete software, hardware items, accessories, single/ multi core cables, RF cable connectors, Humidity/temperature transducer, 2/3 Core Shielded Teflon cable, Extension cables etc. (Items wise details of offered and included material ,items & part are to be given by the tenderer)	Set	1 Set	1 Set	1 Set
11.7	Any other accessories offered for the completeness of the system (Items wise details of offered and included material , items & part are to be given by the tenderer)	Lot	1 lot	1 lot	1 lot

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(Item wise details along with each quantity to be given by the tenderer)

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Part 4.1 (B) (OPTIONAL) SCHEDULE OF MATERIAL/REQUIREMENT FOR SUPPLY INCLUDING ESSENTIAL AND RECOMMENDED SPARES (UNPRICED) (FOR ONE Set of Stereo FM Digital Audio Broadcast Processor)

SNo.	Description	Unit	Qty Jammu Region	Qty Srinagar Region	Qty Leh Region
1.	Modules	Set	1 Set	1 Set	1 Set
2.	PCBs	Set	1 Set	1 Set	1 Set
3.	Any other item offered by the firm for the completeness of equipment	Lot	1 lot	1 lot	1 lot
4.	Remote Computer Interface	Set	1 Set	1 Set	1 Set
5.	Telemetry Interface etc.	Set	1 Set	1 Set	1 Set

PART – 4.2 (B) OPTIONAL SPARES ITEMS:

FOR ONE SET OF 4 BAY VERTICALLY POLARIZED VHF FM ANTENNA]

S NO.	Description	Unit	Qty Jammu Region	Qty Srinagar Region	Qty Leh Region
4.2.1	Spares: Antenna installation accessories and tools kit. (Items wise details of offered material , including part number, if any, are to be given by the tenderer)	Set	1 Set Complete	1 Set Complete	1 Set Complete

Part 4.3 (A) SCHEDULE OF MATERIAL/REQUIREMENT FOR SUPPLY (OPTIONAL INCLUDING ESSENTIAL AND RECOMMENDED SPARES) (UNPRICED)

(FOR ONE Set of RN Terminal Equipment with Deicing kit)

SNo.	Description	Unit	Qty Jammu Region	Qty Srinagar Region	Qty Leh Region
4.3.1	Modules	Set	1 Set	1 Set	1 Set
4.3.2	PCBs	Set	1 Set	1 Set	1 Set
4.3.3	Spare low loss cable with connectors.- 50 M	number	1No	1No	1 No
4.3.4	Any other item offered by the firm for the completeness of equipment	Lot	1lot	1lot	1lot
4.3.5	Training for 2 days for 5 Engineers	Lot	1lot	1lot	1lot

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- # Rate shall be quoted per Item wise per number/per meter/ per job along with each quantity by the tenderer)
- ## (Item wise details along with each quantity to be given by the tenderer)
- ^ Items are to be supplied by tenderer including lugs, connectors etc.

Part 4.4 SCHEDULE OF MATERIAL/REQUIREMENT FOR SUPPLY (OPTIONAL) INCLUDING ESSENTIAL AND RECOMMENDED SPARES) (Unpriced) (For one set of Stereo & Digital Programme Input-Cum-Monitoring Rack)

SNo.	Description	Unit	Qty Jammu Region	Qty Srinagar Region	Qty Leh Region
1.0	Cooling fans complete	No	1 No	1 No	1 No
2.0	DC SUPPLY : In case any of the Rack equipment is to operate on a separate DC Supply , one such unit is to be offered as spare and price are to be quoted separately as optional	No	1 No	1 No	1 No
3.0	Any other item as per recommendation of manufacture.	Lot	1 Lot	1 Lot	1 Lot

PART 4.9 SCHEDULE OF REQUIREMENT/MATERIAL (UNPRICED) (OPTIONAL) FOR SETC FOR STAND ALONE SILENT TYPE DIESEL GENERATOR SETS 180 KVA (1+1)

4.9.1	Consumable spares required for operation of the D.G. Set for 2 years. {(List of spares to be enclosed (Optional))##	Set	1 Set# (1+1)	1Set# (1+1)	1Set# (1+1)
4.9.2	Special tools required for field maintenance and repair of Diesel Generator excluding Standard Tools which are part of Generator (List of Tools to be enclosed)##	Set	1 Set# (1+1)	1Set# (1+1)	1Set# (1+1)
4.9.3	Charges for operation for 18 hrs. per day & routine maintenance including all consumable except fuel & lube oil for one year, during warrantee period. (Optional)##	Job	1 job# (1+1)	1 job# (1+1)	1 job# (1+1)
4.9.4	Charges for comprehensive AMC for 2 nd year, 3 rd year, 4th year & 5 th year. (Details of items covered under AMC for repairs/ replacement, routine inspection/ checking/ adjustments/ measurements and periodic maintenance schedule intended to be adopted by the tenderer shall be annexed to the technical bid.)##)(Optional)	Job	1 job# (1+1)	1 job# (1+1)	1 job# (1+1)
	Spares :				
4.9.5	Spares required for operation of the D. G. Set for 2 years.(detailed list item wise with part number to be enclosed) (Optional)##	sets	1 sets (1+1)#	1 sets (1+1)#	1 sets (1+1)#

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- # Rate shall be quoted per Item wise per number/per meter/ per job along with each quantity by the tenderer)
- ## (Item wise details along with each quantity to be given by the tenderer)
- ^ Items are to be supplied by tenderer including lugs, connectors etc.

PART 4.10: SCHEDULE OF REQUIREMENT/MATERIAL (UNPRICED) FOR SETC OF ON LINE UNINTERRUPTED POWER SUPPLY SYSTEM (UPS) (1+1) (FOR EACH SITE)

(Bill of material must be in the format given below for technical and commercial quotes).

Spares: (Optional)

	Spares:	Unit	Qty Jammu Region	Qty Srinagar Region	Qty Leh Region
4.10.1	Spares required for operation of the On Line UPS system for 2 years.(detailed list item wise with part number to be enclosed##	Set	1 Set complete #	1 Set complete #	1 Set complet #

PART 4.11: SCHEDULE OF REQUIREMENT/MATERIAL (UNPRICED) FOR DSETC OF VENTILATION EQUIPMENT FOR TRANSMITTERS. (FOR EACH SITE)

Spares: (Optional)

	Spares:	Unit	Qty Jammu Region	Qty Srinagar Region	Qty Leh Region
4.11.1	Spares required for operation of the 1.5 T, Reversible Type air conditioners for 2 years. (detailed list item wise with part number to be enclosed)##	Set	1 Set complete #	1 Set complete #	1 Set complete #

PART 4.12 SCHEDULE OF REQUIREMENT/MATERIAL (UNPRICED) (OPTIONAL) FOR SETC FOR STAND ALONE SILENT TYPE DIESEL GENERATOR SETS 62.5 KVA (1+1)

4.12.1	Consumable spares required for operation of the D.G. Set for 2 years. (List of spares to be enclosed)##	Set	1 Set# (1+1)	1Set# (1+1)	1Set# (1+1)
4.12.2	Special tools required for field maintenance and repair of Diesel Generator excluding Standard Tools which are part of Generator (List of Tools to be enclosed)##	Set	1 Set# (1+1)	1Set# (1+1)	1Set# (1+1)
4.12.3	Charges for operation for 18 hrs. per day & routine maintenance including all consumable except fuel & lube oil for one year, during warrantee period. (Optional)##	Job	1 job# (1+1)	1 job# (1+1)	1 job# (1+1)

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- # Rate shall be quoted per Item wise per number/per meter/ per job along with each quantity by the tenderer)
- ## (Item wise details along with each quantity to be given by the tenderer)
- ^ Items are to be supplied by tenderer including lugs, connectors etc.

Specification no: SETC-10 KW TX (1+1) AIR & DD /J&K /1/ November/ 2010/D (TD/FM)

4.12.4	Charges for comprehensive AMC for 2 nd year, 3 rd year, 4th year & 5 th year. (Details of items covered under AMC for repairs/ replacement, routine inspection/ checking/ adjustments/ measurements and periodic maintenance schedule intended to be adopted by the tenderer shall be annexed to the technical bid.)##)(Optional)	Job	1 job# (1+1)	1 job# (1+1)	1 job# (1+1)
	Spares :				
4.12.5	Spares required for operation of the D. G. Set for 2 years.(detailed list item wise with part number to be enclosed) (Optional)##	sets	1 sets (1+1)#	1 sets (1+1)#	1 sets (1+1)#

PART 4.13: SCHEDULE OF REQUIREMENT/MATERIAL (UNPRICED) FOR SETC OF 180 KVA AVR

Spares: (Optional)

	Spares:	Unit	Qty Jammu Region
4.13.1	Spares required for operation of AVR for 2 years.(detailed list item wise with part number to be enclosed##	Set	1 Set complete #

PART 4.14: SCHEDULE OF REQUIREMENT/MATERIAL (UNPRICED) FOR SETC OF 180 KVA ISOLATION TRANSFORMERS

Spares: (Optional)

	Spares:	Unit	Qty Jammu Region
4.14.1	Spares required for operation of the Isolation Transformer for 2 years.(detailed list item wise with part number to be enclosed##	Set	1 Set complete #

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- ## (Item wise details along with each quantity to be given by the tenderer)
- ^ Items are to be supplied by tenderer including lugs, connectors etc.