

2x500 MW SAGARDHIGI TPP PH-II (UNIT-3&4)
BOQ CUM PRICE SCHEDULE FOR PA SYSTEM

ANNEXURE-4(A)

Sl. No.	Item Code	Item Name	UOM	Quantity	REMARKS	Unit Price (Rs) (Ex-works)	Total Price (Rs) (Ex-Works)
(A)	MAIN ITEMS						
(i)	557-11002-A	ACOUSTIC HOOD: FLOOR MOUNTED	NOS	20			
(ii)	557-11007-A	CENTRAL EXCH (MAIN) WITH INTEGRATED MDF	NOS	1	Microprocessor controlled, digital, programmable central control unit (CCU) with PCM/TDM technology equipped for 88 stations.		
(iii)	557-11009-A	CONE TYPE SPEAKER - 6W	NOS	25			
(iv)	557-11011-A	DESKTOP STATION (DTS)	NOS	10	Built in mic LCD display, handset, 4 LED indicators & 18 nos key board switches		
(v)	557-11014-A	EXTENSION AMPLIFIER FOR MCS, FMS & DTS	NOS	16			
(vi)	557-11015-A	FIELD CALL STATION (FCS)	NOS	21			
(vii)	557-11027-A	PILFERPROOF HANDSET STATION	NOS	36			
(viii)	557-11019-A	HORN TYPE SPEAKER - 15W	NOS	128			
(ix)	557-11025-A	MASTER CONTROL STATION (MCS)	NOS	6	Built in mic LCD display, handset, 4 LED indicators & 18 nos key board switches		
(x)	557-11029-A	POWER DISTRIBUTION BOX	NOS	1			
(xi)	557-11030-A	POWER JUNCTION BOX	NOS	140			
(xii)	557-11031-A	SIGNAL JUNCTION BOX	NOS	9			
(xiii)	557-11044-A	SUB-DISTRIBUTION FRAME (SDF) 20 PAIRS	NOS	7			
(xiv)	557-11042-A	WEATHER PROTECTING CANOPY FOR FCS	NOS	8			
(xv)	557-11016-A	FLAMEPROOF HANDSET STATION	NOS	2			
(xvi)	557-11043-A	FLAMEPROOF HORN TYPE SPEAKER	NOS	4			
(xvii)	557-11017-A	FLAMEPROOF JUNCTION BOX	NOS	4			
(xviii)	557-11039-A	SPECIAL TOOLS & TACKLES (Bidder to furnish detailed list)	SET	1			
(xix)	557-11013-A	E&C Spare (Bidder to furnish detailed list)	SET	1			
(xx)	557-11026-A	O&M Spare (Recommended Spare) (Bidder to furnish detail list)	SET	1			
(xxi)	557-11047-A	Multistrand Fibre Optic Cable	Mtr.	8000			
(xxii)	----	Additional item, required for completeness of system	LOT	1			
Sl. No.	Item Code	Item Name	UOM	Quantity		Unit Price (Rs)	Total Price (Rs)
(B)	E & C						
(i)	557-11002-C	ACOUSTIC HOOD: FLOOR MOUNTED	NOS	20			
(ii)	557-11007-C	CENTRAL EXCH (MAIN) WITH INTEGRATED MDF	NOS	1			
(iii)	557-11009-C	CONE TYPE SPEAKER - 6W	NOS	25			
(iv)	557-11011-C	DESKTOP STATION (DTS)	NOS	10			
(v)	557-11014-C	EXTENSION AMPLIFIER FOR MCS, FMS & DTS	NOS	16			
(vi)	557-11015-C	FIELD CALL STATION (FCS)	NOS	21			
(vii)	557-11027-C	PILFERPROOF HANDSET STATION	NOS	36			
(viii)	557-11019-C	HORN TYPE SPEAKER - 15W	NOS	128			
(ix)	557-11025-C	MASTER CONTROL STATION (MCS)	NOS	6			
(x)	557-11029-C	POWER DISTRIBUTION BOX	NOS	1			
(xi)	557-11030-C	POWER JUNCTION BOX	NOS	140			
(xii)	557-11031-C	SIGNAL JUNCTION BOX	NOS	9			
(xiii)	557-11044-C	SUB-DISTRIBUTION FRAME (SDF) 20 PAIRS	NOS	7			
(xiv)	557-11042-C	WEATHER PROTECTING CANOPY FOR FCS	NOS	8			

(xv)	557-11016-C	FLAMEPROOF HANDSET STATION	NOS	2			
(xvi)	557-11043-C	FLAMEPROOF HORN TYPE SPEAKER	NOS	4			
(xvii)	557-11017-C	FLAMEPROOF JUNCTION BOX	NOS	4			
(xviii)	557-11047-C	Multistrand Fibre Optic Cable	Mtr.	8000			
(xix)	----	Additional item, required for completeness of system	LOT	1			

	OPTIONAL ITEMS						
(C)	557-11041-A	TYPE TEST (As per Annexure-4B)	LOT	1			

Notes:

1. The unit rates of supply for all equipments quoted by the bidder shall be firm for a variation of quantities limited to:
 - a) $\pm 20\%$ of total order value till finalization of engineering details & BOQ.
 - b) $+10\%$ of the total order value in addition to (a) above, till the completion of the job.
2. Main equipment items, which are not applicable for their system, bidder to mention in "Remarks" column and same shall appear in the unpriced copy of the bid also.
3. Design & Engineering charges shall form part of main equipment.
4. Type tests shall be carried out free of cost wherever required as per the specification.
5. Bidder must indicate the make and model number for each item.
6. The unit rates of installation (E & C) for all equipments quoted by the bidder shall be firm for a variation of quantities limited to $\pm 30\%$ of total order value till the completion of job at site.
7. Supply fabrication & painting of support structure for PA system equipment shall be in bidder's scope.
8. Termination & laying of cable shall not be in bidder's scope except for local cable from junction box to station & all Fibre optic cables. However termination of cable on bidders equipment shall be on bidder's scope.
9. Instruments required for testing & commissioning shall be arranged by the bidder & shall be taken back after completion of E&C.
10. Supply & installation of external equipment earthing shall be in BHEL scope.
11. Bidder to furnish list of following items along with unit price of each item with their bid
 - a E&C Spare
 - b O&M Spare (Recommended Spare)
 - c Special Tools & Tackles

ANNEXURE- 4 (B)
2X500 MW SAGARDIGHI
TYPE TEST (OPTIONAL)

Sr. No	Item Code	Item Description	Unit	Quantity	Unit Price (Rs) (Ex-works)	Total Price (Rs) (Ex-Works)
(C)	557-11041-A	TYPE TEST(OPTIONAL)				
(i)		Surge Protection Test	NOS	1		
(ii)		Dry Heat Test as per IEC-68-2-2	NOS	1		
(iii)		Damp Heat Test	NOS	1		
(iv)		Vibration Test	NOS	1		
(v)		Electrostatic discharge test as per IEC-801-2 or equivalent	NOS	1		
(vi)		Radio frequency immunity Test as per IEC-801-6 or equivalent	NOS	1		
(vii)		Electromagnetic immunity test as per IEC-801-3 or equivalent	NOS	1		