## MUNICIPAL CORPORATION OF BHILAI

## वार्ड क्र. 50 स्थित ऑडिटोरियम भवन में साउण्ड सिस्टम लगाने एवं अन्य विकास कार्य।

(As Per PWD Electric SOR 01.06.2020 & NON SOR ITEM)

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511	PARTICULERS OF ITEMS	QTY.	UNIT	
ı	Supplying, installation, Testing and Commissioning of Advanced digital audio processor with open architecture software-configurable functionalityComprehensive library of DSP algorithms optimised for installation applications, 8 Channels of wide band Acoustic, USB audio connection for integration with computer based audio, ULTRANET digital audio transport output for connection to compatible devices Ethernet port for software configuration via CAT5/5e cable with all necessery terminals and Connectors.	1	Each	
2	Supplying, installation, Testing and Commissioning Wall Hanging Arrangement for Speaker Metal Wall Bracket with necessary accessories to mount the speakers on wall with all necessery terminals and Connectors.	18	Each	
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit / PVC casing caping as per specification and IS: 694 (2010) 3 x 1.5 sq. mm	150.00	Mtr.	
	NON SOR ITEM			
3	Providing and fixing acoustic insulation treatment to the ceiling (concrete soffit) in a premises using high performance acoustic insulation sheets of TIKIDAN make comprising of 28mm multi-layer composite acoustic panel DANOFON, 40mm Rockwool of density 70Kg/cu.m ROCDAN 231/40 and 4mm high density mass loaded sound barrier sheet M.A. D.4, along with lother accessories and fixtures exic. all complete as per the procedure given below, the laying of the acoustic treatment shall be done by the authorized applicator of the manufacturer of acoustic sheets:  SURFACE PREPARATION: The surface of the ceiling (concrete soffit) should be sound and shall have smooth finish in true plumb & in line and should be dry, free from algae growth, rising water, major crakes etc. The surface shall be thoroughly cleaned to remove dust and foreign particles. MULT-LAYER ACOUSTIC PANEL: Providing and fixing 28mm thick multi-layer composite acoustic panel DANOFON of TIKIDAN make, made of 4mm thick mass loaded high density sound deadening anti-resonant sheet of density? 91800 Kg/m3 langly bonded on both faces with 12mm thick sound absorbing porous mass of density 50 Kg/m3 and providing airborne sound insulation (Rw) to extent of 63 dBA (as per EN 140-3 and EN 71-1), the acoustic panel shall comply with the requirement of Class A of decree No. 2011-321 of March 23, 2011 of French Ministry of Ecology, Sustainable Development, Transport and Housing, shall have acoustic certification from L.G.A.I., LABEIN, INSTITUTO TORROJA for Isolation Index in accordance with UNE-EN-ISO 140-3:1995, and be of Im x 6m Size and shall have Longitudinal Tensile Strength (EN 12311-1) of Table 140-3 and EN 71-3 the series Strength (EN 12311-1) of 275 N/Smc, Nail Shank Tear Resistance (EN 12310-1) of >370 KN/m, V.O.C <100 µg/m3 (ISO 16000-6:2006), and Total Thermal Resistance R-Value 0.77 m2K/w (EN 12667, EN 12939), the acoustic panel fixed to the wall surface covering entire area by means of insulation fixtures with rubber washers @ 600mm c/e.  METAL-STRUT FRAMING	576.00	Sqm	

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