

MAKE LIST FOR AUDITORIUM WORK AT THE NEW IDPT BUILDING FOR SES, MTB CAMPUS, SURAT

PART B(a)- STAGE LIGHTING WORK

Sr. No.	Tender Specification/ Item Description	Make
	Light Fixtures	
	All Light Fixture offered shall be complete with all required mounting arrangements.	
	All Light Fixture offered shall be Min. 110 Lumen/ Watt, (Except Profile & Special Purpose Light)	
	All Light Fixture offered shall be with suitable driver	
	Each fitting required : LM-79 & LM-80 Certificates NABL approved company's or third party's laboratory)	
	Voltage: 120 to 300 V,	
	Power Factor Min. 0.85	
	CCT: 2500K to 6500K as required by client	
	LED driver efficiency: > 90 %	
	Surge Protection (Internal or External)	
	For Indoor Min. 2 kV	
	For Outdoor Min. 10 kV	
D.1	SETC of 1200 Lumen High performance LED Downlights for commercial applications, 6500k, 100 lumen / watt efficacy, Efficient heat sink (die cast) with Steel clips, Integrated driver control (for easy installation), with PF 0.8, 230 Volt, 50 Hzs with Basic Rate of Rs. 1870/-	Wipro, philips, Keselec, Panasonic
D.2	SETC of Any Decorative Light Complete with All mounting & Fixing arrangement With Basic Rate of Rs. 3000/-	Wipro, philips, Keselec, Panasonic
D.3	DALI DIMMABLE Deep Recessed fixed (UGR<15) LED Downlighter 20W . Fixture to be made of Alumin ADC12 housing in white color with mirror finished aluminium reflector mounting kit for light control 15°/24°/32°/50° Beam Angle and 38° shielding angle. LED Used shall be COB type with system Lumens 2000 lm ±10%, fixture Life of : 50k hours L70, CCT of 4000K (SDCM≤3), CRI >80 for high quality light output. power factor >0.90 an operating Voltage Range of 220 - 240 VAC with Operating temperature range - 20 C --+45C. Fixture should comply with EMC / EMI with flicker free operations ripple <5%, BIS certification is required for LED Driver & Luminaire along with Class I classification The LED driver should comply to IEC61000-3-2 ed.3.2, 2009 for Harmonics, IEC61347 -2 -13, 2006 in Conjunction with IEC61347-1 ed.2.0, 2007 for Electrical Safety, IEC62384 ed.1.1, 2011 for performance and IEC61547 ed.2.0, 2009, Luminaire manufacture shall provide LM79 report from NABL accredited lab & LM80 report issued by LED manufacturer.	Wipro, Philips, Panasonic
D.4	i-Sense wireless IoT System having BLE 5.2 AES 128 Bit encryption based 32 child DALI controller and analog 2 channel (0-10V) output, operates on 100-277 VAC, 10-30mA, 50Hz, DALI 2.0 protocol. Sensor input of 0-3V DC & 1mA. For analog dimming, It provides output voltage of 0-10V DC +/- 0.2V and 15mA per channel. For DALI output, it provides 12-20V DC and 160mA max for 32 DALI devices. An auxillary power output of 3.3VDC and 30mA. 0 - 100% dimming, device to device range 45m. Controller must control individually control standard DALI or Tunable DALI Drivers independantly or combination of both. Operating temperature -20 to 50 deg celsius, surge protection 3kV. System shall support easy commissioning and configuration via Mobile Application along with user and site management features. Optional Cloud Application must be available for control and monitoring of the devices along with analytics reports. Mobile Application shall have features of individual & group control for On/off/dimming/ colour tuneing / Scene Control / Animation etc. Device must have security key for commissioning and replacement for future.	Wipro, Philips, Panasonic
D.5	Wipro i-Sense BLE 5.2 AES 128 Bit encryption based wireless battery powered 5-button wall switch that controls ON/OFF, intensity and CCT of an individual or group of luminaires. Operates on 3V DC input voltage in an ambient temperature of 0 to 50 deg celsius and device to device range 45m. System shall support easy commissioning and configuration via Mobile Application along with user and site management features. Optional Cloud Application must be available for control and monitoring of the devices along with analytics reports.	Wipro, Philips, Panasonic

Place
Date

STAMP & SIGNATURE OF THE CONTRACTOR