SCHEDULE OF WORK

Name of Work:- MOEI & Fans,Compound lighting etc. at MSME Bhanpuri Raipur For the year of 2026-27

S.No.	Description Item	Qty.	Unit	Rate	Amount	Remark
	SH-I (Establishment)					
1.01	Providing services for Running maintenance and operation of Elect. and mech. Installation from 9AM to 6PM on all working days in accordance of specification and additional conditions attached					
a	Wireman cum Operator- 1 No.	12	Month	27950	3,35,400.00	MR
1.2	Providing 2 Set uniform i/c Shoes, I-card & tools for Wireman cum operator during office hours. As per direction of Engineer-in-charge.					
(a)	Wireman cum operator	2	Job	4112	8,224.00	MR
	Total of SH-I (Establishment)				**3,43,624.00**	
	SH-II (Servicing & Maintenance)					
2.01	Servicing & overhauling of 1.5/2.0TR Split AC's i/c dismantling the front & side cover of indoor & outdoor unit, cleaning the fins of cooling coil & condensor coil with cleaning agent like sulphonic chemical & fresh water, detergent powder , checking & tightning all electrical connections & PCB , greasing /oiling indoor & outdoor fan motor , reassembling the same & testing, commissioning complete etc. as reqd.					
a	1.5/2.0 Ton Split AC [15 Nos Three times in a year]	45	Nos.	740	33,300.00	MR
2.02	Supplying & topping up of R-32/ R-410/R-22 Green refrigerant in the existing split/cassette/window type AC unit after pump down of possible gas for servicing of cooling coil by removing the cooling coil then pressure testing vaccumising, testing & commissioning after fixing of serviced cooling coil complete etc. as reqd.	20	Kg	1938	38,760.00	MR
2.03	Providing & Replacement of following spare parts in 1.5/2.0TR Split AC units if required i/c dismantling during servicing i/c buyback the same,making connections, testing commissioning complete etc. as reqd.					
a	Compressor Split AC	2	Each	10459	20,918.00	MR
b	Split AC Indoor Unit Blower Motor	2	Each	2857	5,714.00	MR
c	Split AC Outdoor Unit Fan Motor	2	Each	3341	6,682.00	MR
d	Running Capacitor suitable mfd capacity	6	Each	339	2,034.00	MR
e	Condensor fan blade	2	Each	1153	2,306.00	MR
2.04	Rewinding, reparing, greasing, oiling and painting of 1200 mm sweep A/C ceiling fan by rewinding with super enamaled copper winding wire replacement old ball bearing with new set i/c dismantling burnt wiring & varnishing, reassembling and balancing of blades, credit for old copper wire etc as reqd.	10	Each	520	5,200.00	MR
	Total of SH-II (Servicing & Maintenance)				**1,14,914.00**	
	SH-III (Spares/ Electrical Maintenance Material)					
3.0	Supplying of following Electrical accessories as per given make or as suitable as and when required at site i/c credit for old dismatled materials:-					DSR 25, Code No.
3.01	1.5 sq. mm ISI marked, FRLS PVC insulated,single core copper conductor cable	90	Mtr	23	2,070.00	1101
3.02	4 sq. mm ISI marked, FRLS PVC insulated,single core copper conductor cable	90	Mtr	54	4,860.00	1103
3.03	Modular Type 5/6 amps switch ISI Marked.	15	Each	44	660.00	1402
3.04	Modular Type 15/16 A switch ISI Marked.	15	Each	95	1,425.00	1404

S.No.	Description Item	Qty.	Unit	Rate	Amount	Remark
3.05	Modular Type 3 pin 5/6 A socket outlet ISI Marked.	15	Each	81	1,215.00	1405
3.06	Modular Type 6 pin 15/16 A socket outlet ISI Marked.	15	Each	135	2,025.00	1406
3.07	2 module fan regulator ISI Marked.	5	Each	282	1,410.00	1408
3.08	Single pole 6 A to 32 A rating, SP MCB, 240/415 V, 10 kA, "C" curve.	10	Each	172	1,720.00	1706
3.09	40/63 DPMCB "C" curve, 10 KA breaking capacity	5	Each	1350	6,750.00	MR
3.10	63 FPMCB "C" curve, 10 KA breaking capacity	3	Each	2537	7,611.00	MR
3.11	2.5 mfd fan capacitor	8	Each	36	288.00	MR
3.12	Supply of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply, Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.					
a	1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	2	Each	1973	3,946.00	4602
3.13	Supplying of LED surface mounted Batten light of **Powder coated die cast /Extruded aluminium Body** (Thickness > 1.20 mm) material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80 , Flicker free (flicker should be below 5 %), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends,CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty.					
	System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
a	18- 22 watt	10	Each	438	4,380.00	4475

S.No.	Description Item	Qty.	Unit	Rate	Amount	Remark
3.12	Supplying, of LED Recessed/surface Down lighter (Round/square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10%,P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) <19, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), life time of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard.					
	Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in- Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
	Powder coated die cast /Extruded aluminum Body including trim .					
a	12 - 15 watt	10.00	Each	420.00	4,200.00	4409
3.13	LED Panel light 2x2 ft. (System lumen efficacy ≥120 <135 lm/Watt)					
	Supplying, Installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) <19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard.					
	Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output .LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
	Powder Coated CRCA Sheet Body (Thickness > 0.50 mm)					
a	36 watt	10.00	Each	2521.00	25,210.00	4446

S.No.	Description Item	Qty.	Unit	Rate	Amount	Remark
3.14	Supplying of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI >80 , under voltage and over voltage protection,EMI-EMC as per CISPR - 15 , lenses for beam angle 30 deg-120deg as per the application and the project requirementdeg., suitable tilt able fitting, life time (LED,Driver & electrical circuitary) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy 105 <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
a	150W Flood light	5	Each	2682	13,410.00	4350
3.15	Supplying, installation, testing & Commissioning of IP65 protected 10 Watt LED bulkhead fitting having die cast aluminium housing with polycarbonate cover, with minimum system efficiency of 100 lm/W on surface/wall including connection complete etc. as reqd.	5	Each	997	4,985.00	4350
	Total of SH-III (Spares/ Electrical Maintenance Material)				**86,165.00**	
	ABSTRACT OF COST					
	SH-I (Establishment)				**3,43,624.00**	
	SH-II (Servicing & Maintenance)				**1,14,914.00**	
	SH-III (Spares/ Electrical Maintenance Material)				**86,165.00**	
	Total				**5,44,703.00**	
	Say Rs.				**5,44,703.00**	

Executive Engineer (E)
CPWD, Raipur