

Office of the Executive Engineer PSTP Division, Dhaka WASA.

Name of the work: Supply of solar panel street light with related services for sludge lagoon north side under PSTP.

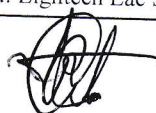
Section (6): Bill of Quantity (BOQ) PG2-2A: Supply of Goods:

Item No	Group	Basis of rate	Description of Items (Goods & related services)	Unit	Qty	Rate	Amount
			Supply of solar panel street light with related services for sludge lagoon north side under PSTP. The materials will deposited at divisional store of Dhaka WASA and will be accepted after joint inspection by inspection team comprising of EE, AE, and SAE of PSTP Division, EE, P&D (E&M) Division and in presence of SE, W&STPC. All works must be done as per direction of Engineer In-charge. Also the contractor will have to ensure warranty for 12 (Twelve) months, if any trouble occurs the contractor is bound to supply again by his/her own cost.				

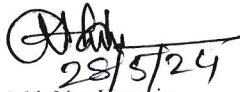
PG2-2A: Supply of Goods:

1	Elec	Approved rate	Providing following seamless GI Pole fabricated with GI pipe complete with GI sockets, MS base plate, top cover, necessary welding as required:- Total length: 25', Dia: 4", visible length 20', Thickness 4mm, Dia 3", Base Plate: 1.5'x1.5'xx0.25"	each	14.00	19319.001	270466.014
2	Elec	Approved rate	Providing of solar charge controller fitting of the following features pwm charging battery type selection: sealed, Gel, flooded and User (programmable), Maximum output efficiency of 96% output current adjustable, flexible dimming function (0-100%), digital precision constant current control, real-time energy statics function, battery temperature compensation function, fully encapsulated PCB, IP68 protection, aluminium housing for better cooling, PV revers polarity protection, battery over voltage protection, battery over discharge protection battery operating protection battery reverse polarity protection, battery over voltage protection, battery overheating protection, battery reverse polarity protection, load short circuit protection etc. complete Model and sample shall be approved by the engineer.	each	14.00	9890.001	138460.014
3	Elec	Approved rate	Providing of LED Solar Light 85 Watt Module capacity, Polycrystalline PV module type, 12 volt. 15.60 Module efficiency, IP65. South facing 30°, 220 KMph wind load taking capacity, -40°C to +85°C operating temperature.	nos	14.00	43000.001	602000.014
4	Elec	Approved rate	LED Solar Light with Lithium Iron Phosphate Battery with builtin inner fixing. 20 Watt, COB type LED Light, 2000-2500 luminous flux, 100-130 lm/watt lamp efficiency, For 10 Years < 4% light degradation rate, IP65, PF > 0.98 PF, 50000h rated hour, 5000-7000K color temperature, -30°C to +70°C working temperature, inpuete voltage DC 12 VT.	nos	14.00	38000.001	532000.014
5	Elec	Approved rate	Solar Lighting Controller nominal system voltage 12V DC, Rated charging current 10A, Max PV open circuite voltage 30V, Max output power 40 W, Load open circuit voltage 60V, output currntent controle accuracy < 30mA. Enclosure IP68. will be Installed inside the light box.	nos	14.00	9300.001	130200.014
6	Elec	Approved rate	Structure for Solar Panel fitting of the following features made by MS frame having size: length-18 inch, Width-26 inch to complete Model & sample shall be approved by the Engineer.	each	14.00	4560.001	63840.014
7	Elec	Approved rate	Arm for light and Battery Box fitting og the following single arm, having length-3, diameter-1.5 inch, GI made battery box to complete Model & sample shall be approved by the Engineer.	each	14.00	4550.001	63700.014
Sub Total TK (PG2-2A)							1800666.098

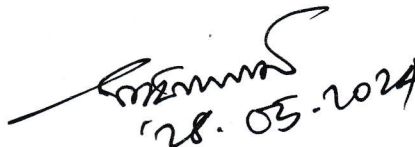
(In word: Eighteen Lac Six Hundred Sixty Six Point Zero Nine Eight Taka Only).

Group	Basis of rate	Description of Items (Goods & related services)	Unit	Qty	Rate	Amount	
1	2	3	4	5	6	7	
Section (6): Bill of Quantity (BOQ) PG2-2B: Related Services:							
8	Elec	PWD-1.2.1.1 Year-2022	Surface conduit wiring for following point looping at the switch board with earth terminal with 1C-2x1.5 sqmm PVC insulated and sheathed stranded cable (BYM) & 1C-2x1.5 sqmm PVC insulated ECC(BYA) (Green / Yellow bi-colour) including circuit wiring (From SDB to Switch Board) with 1C-2x2.5 sqmm PVC insulated and sheathed stranded cable (BYM) & 1C-2x2.5 sqmm PVC insulated ECC(BYA) Green / Yellow bi-colour through PVC conduit (one conduit from switch board to common point on ceiling is considered to draw 3 pair of cable) of reputed manufacturer of minimum 16-25 mm inner dia as required with 1.5 Light / Exhaust or wall bracket Fan point.	point	14.00	1305.001	18270.014
9	Elec	PWD-3.7.1.1 Year-2022	Erection of following tubular pole up to 1828.80 mm (6') depth by placing the pole base on one layer of 1st. class brick flat soling over 76.2 mm (3") sand bedding and making 1:2:4 (1.5' x 1.5' x 7') CC work around the pole including excavation & refilling and ramming the loose soil etc. as required. 12192 mm (40') long MS / GI / RCC / spun PC pole with 457 mm x 457 mm (1.5'x1.5') CC work up to 6' below GL and 1' above GL including curing and neat cement finishing over concrete surface.	each	14.00	3425.001	47950.014
10	Elec	MR	Installation, Testing Commissioning and Operation of all solar panel.	item	1.00	33000.001	33000.001
Sub Total TK (PG2-2B)						99220.029	
(In word: Ninety Nine Thousand Two Hundred Twenty Point Zero Two Nine Taka Only)							
Ground Total TK {(Sub Total TK (PG2-2A) + Sub Total TK (PG2-2B)}						1899886.127	
(In word: Eighteen Lac Ninety Nine Thousand Eight Hundred Eighty Six Point One Two Seven Taka Only)							


28/5/24

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28.05.2024

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28/5/24

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