

ESTIMATE

Name of the Work: Supply, delivery, erection, fitting and fixing of 6 Nos. High Mast (12.5 mtr.) with LED flood lights within Ghatal Municipality.

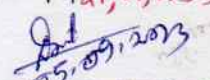
Sl. No.	Description of items	Qty.	Unit	Rate(Rs.)	Amount(Rs)	Remarks
01	Supply of 12.0 / 12.50 meter High mast lighting system with its accessories. Mast shaft shall be in two sections with steel material confirming to BSEN 10025 and material shall be high tensile steel, grade S355, hot dip galvanised confirming to BSEN ISO 1461 and suitable for wind velocity as per IS 875. It shall also include accessories for high mast including head frame, 2 continues steel wire rope 6 mm dia (7/19 construction), trailing cable, double drum winch, Galvanised Lantern carriage arrangement suitable for up to 9 luminaires symmetrically & its control gear(Make of Gear Box : New Allen Berry works / Chandra Gear / Elecon Engineering / Shanti Engineering) boxes and lightning finial. The mast shall have an integral power tool installed inside the base compartment for its operation along with Supply & Fixing of Cu Cable of Power Tool motor, Wiring for Luminaries, Anchor Plate, Foundation Bolt, Nut, Washer, and common Template all complete. Luminaire wiring materials not included in this item. (Make: Bajaj / Transrail / Valmond/Utkarsh /Skipper)	6	Item	1,02,809.00	6,16,854.00	UD & MAD 2018 Schedule, Page-53, Item-03
02	Erection of high Mast (12.0 / 12.50 M) on RCC foundation with cement concrete considering actual SBC of soil, with the help of suitable modern engg. tools and Plants, wiring of luminaries with all wiring materials like PVC insulated flexible cable of suitable copper conductor core of 1.5 mm ² lugs, up to 10 nos. 6A MCB along with construction of shallow foundation with cement concrete for high Mast considering the safe soil bearing capacity as per site condition, as per drawing and design of manufacturer of the mast. The soil test and submission of itsreport is within the scope of the work.	6	Item	47,160.00	2,82,960.00	UD & MAD 2018 Schedule, Page-54, Item-04
03	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts.long and 1 x 4 SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mts. long) to be filled withbitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level as below: (a) By ISI-Medium GI pipe [Two for the each high mast and one for each panel]	12	Set	1,410.07	16,920.84	PWD Ele. 2017 Schedule, Page-G-1, Item-02(a)
04	Supply, delivery ,fitting and fixing of 210 Watt LED Flood Light with (Model: BVP483 LED210 CW SWB /SMB / AWB/ AMB) with ingress protection IP-66 , road way luminary with high power LED as per the detail technical Specification (make: Phillips/Havells/ Crompton or equivalent) as per direction of the EIC.	36	Nos	15,049.00	5,41,764.00	Analysis Enclosed



Sub-Assistant Engineer
Ghatal Municipality
Asst. Engineer
Tech. Divn-V, E & M Sector
K.M.D.A.

Sl. No.	Description of items	Qty.	Unit	Rate(Rs.)	Amount(Rs)	Remarks
05	Supply , delivery and fixing of aviation obstruction light with Integral LED aviation light comprising of aluminium housing with polycarbonate enclosure. (consisting of 4 Nos per pack, Make: Bajaj/ phillips/ equipvelent) as per direction of the EIC	2	Pack	3322.00	6,644.00	Analysis Enclosed
06	S/F of special head type M S loop box (3 mm thick) with connecting bar and other accessories fixed on the top the pole as required and as per direction of Engineer-In-Charge. For 3 phase connection.	6	Nos	518.00	3,108.00	UD & MAD 2018 Schedule, Page-06, Item-33
07	Supply ,delivery & erection of panel with installation and proper operation of 40A FP MCB incomer,double dial timer contractor circuit for the automatic switching control of luminaries with auto manual function , reverse-forward control circuit with starter for the power tool motor and modular push button, main incomer on-off by MCB isolator. All complete for electrical operation of High Mast as per direction of the EIC.	6	Nos	22,735.00	1,36,410.00	Analysis Enclosed
08	Supplying of 1.1 KV. Grade PVC insulated Conductor of following cables (make: Polycab/ Gloster/Havells): 16 sq.mm , 7/1.70 no/mm, 4 core.	600	RM	151.00	90,600.00	UD & MAD 2018 Schedule, Page-11, Item-d/3.
09	Laying only Cable upto 50 sqmm through existing RCC/Hume/ GI Pipe/open masonry trench for single, 2, 3, 3½ & 4 core.	360	RM	44.29	16,340.00 15,944.40	PWD Ele. 2017 Schedule, Page-F-1, Item-03(a)
10	Supply of 50mm High Density Poly-ethylene Pipe conforming to IS - 4984 - 1985 (Dia) [PE - 63] A. 6 Kg / Sq.Cm. (Working Pressure) Dia-50 mm	360	RM	110.00	39,600.00	PWD S&P. 2017 Schedule, Page-19 of 124, Item - 20(a)
11	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming thesides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. (a)Depth of excavation not exceeding 1,500 mm. Field work (600mm x 400mm x 360mtrs) For laying of 50mm inner dia DWC HDPE Roll pipes. Earth excavation and Filling as per direction of the EIC.	86	% Cu-m	11,927.00	10,257.22	PWD Building 2017 Schedule, Page-1 of 315, Item-2(a)
12	Finishing the end of following XLPE/PVC armoured cables by crimping method incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials : (xii) 4 core 16 sqmm cable	48	Sets	97.85	4,696.80	PWD Ele. 2017 Schedule, Page-F-5, Item-8(b)/xii
13	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE/PVC armoured cables as below: (8 no. of gland for each High Mast)	48	Nos	135.96	6,526.08	PWD Ele. 2017 Schedule, Page-F-4, Item-7(c)
14	Power supply service connection charges from WBSEDCL including all other charges.	6	Item	14,110.00	84,660.00	Approx
Sub Total :-					18,57,340.94	18,56,945.34
Add : GST @ 18 % (+)Rs.					3,34,321.37	3,34,250.16
Rs.					21,91,662.31	21,91,195.50


Sub-Engineer
Ghatal Municipal


Assistant Engineer
Mech. Divn-V, E & M Sector

Sl. No.	Description of items	Qty.	Unit	Rate(Rs.)	Amount(Rs)	Remarks
	Add : CESS @ 1 % (+)Rs.				21,916.62	21,911.96
	Rs.				22,13,578.93	22,13,107.46
	Add : Contingency @ 3 % (+)Rs.				66,407.37	66,393.22
	Total Rs.				22,79,986.30	22,79,500.68
	Say Rs				22,79,986.00	22,79,501.00
Rupees : (Twenty Two Lakh Seventy Nine Thousand Nine Hundred and Eighty Six) Only.						

Rupees: Twenty two lakh seventy nine thousand five hundred and one only.

[Signature]

Sub-Assistant Engineer,
Ghatal Municipality

[Signature]

Chairman,
Ghatal Municipality

[Signature]
05.09.2013
Junior Engineer (E)
Mech. Divn.-V
E-M Sector. KMDA

[Signature]
05.09.2013
Assistant Engineer
Mech. Divn-V, E & M Sector
K.M.D.A.

[Signature]
05.09.25
Executive Engineer
Mech. Divn-V, E & M Sector
K.M.D.A.

[Signature]
27/9/23

Superintending Engineer
Mech. Circle - I
E & M Sector, KMDA

Analysis of Rate

Name of the Work: Supply, delivery, erection, fitting and fixing of 6 Nos. High Mast (12.5 mtr.) with LED flood lights within Ghatal Municipality.

Item Sl.No	Rate Analysis of Item
04	Cost of Supply and delivery 210 Watt LED flood Light:
	Supply and delivery of 210 Watt LED Light(Model No: BVP483 LED210 CW ..., Make: Phillips, page np-68) Rs. <u>21,000.00</u> (MRP) Price after discoun GST @18% Rs. <u>17,796.61</u> Less: Discount @ 25 % (-)Rs. <u>4,449.15</u> Rs. <u>13,347.46</u> Add: Carrige @ 2.5 % (+)Rs. <u>333.69</u> Rs. <u>13681.14</u> Add : Profit @ 10% (+)Rs. <u>1368.11</u> TOTAL Rs. <u>15049.258</u> ✓ Say Rs. <u>15049.00</u> ✓
05	Cost of Aviation LED Light :
	Cost of Aviation LED light (Model : BGAV 302 LED , Make: Bajaj, Page no-38) : For 4-Piece. Rs. <u>4,400.00</u> (RSP) at 2019 Price after discoun GST @12% Rs. <u>3,928.57</u> ✓ Less: Discount @ 25 % (-)Rs. <u>982.14</u> Rs. <u>2,946.43</u> ✓ Add: Carrige @ 2.5 % (+)Rs. <u>73.66</u> Rs. <u>3020.09</u> ✓ Add : Profit @ 10% (+)Rs. <u>302.01</u> TOTAL Rs. <u>3322.10</u> ✓ Say Rs. <u>3322.00</u> ✓
07	Cost of Supply,delivery & erection of Panel with complete accessories:
	Supplying & Erection of mini size feeder pillar box of Size (918 x 561 x 382 mm) made up of 2 mm thick MS Plate along with suitable M.S. Angle. The P.B. have double hinge door at the front & back with suitable locking arrangement. The box will be painted by 2 cores of aluminiam paint over 1 coat of red oxide paint. Suitable arrangement should be provided for fixing of Timer unit, fuse unit & other accessories. Leg of the pillar box will be 900 mm in length by made up of (35 x 35 x 3 mm MS Angle with suitable base Plate. Legs of the Pillar box will be erected at 300 mm below the ground level with cement concrete (6:3:1). Rest portion coverd by 5" Brick Wall with plastering & net cement & bottom portion filled with silver sand as drawing & direction of E.I.C (UD & MAD 2018 Schedule, Page-7, Item-38). Rs. 7,053.00


 Sub-Engineer
 Ghatal Municipality


 Junior Engineer (E)
 Mech. Divn.-V
 E-M Section


 Assistant Engineer
 Mech. Divn-V, E & M Sector
 K.M.D.

Supplying and fixing 240/415 V FP MCB Isolator, 40A on din rail of existing DBs and necessary connection. Make-Legrand. (PWD Ele. 2017 Schedule, Page-D-5, Item-6)	Rs. 773.00
Supply and fixing of analog voltmeter ranging from 0-500 V of 144 mm sq size (make :AE/KAPPA/IMP)(UD & MAD 2018 Schedule, Page-16, Item-21).	Rs. 1,097.00
Votl meter phase selector switch (LS)	Rs. 450.00
Supplying and fixing 240/415 V FP MCB, 40A of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. Make-Legrand. (PWD Ele. 2017 Schedule, Page-D-6, Item-7)	Rs. 1,830.00
Supply & fixing two no. of 230/240V, LED indicating lamp (make :AE/KAPPA/IMP) other than Blue/ white color.(UD & MAD 2018 Schedule, Page-17, Item-22(a). [Qty = 2 Nos]	Rs. 638.00
Supply & fixing two no. of 230/240V, LED indicating lamp (make :AE/KAPPA/IMP) other than Blue/ white color. (UD & MAD 2018 Schedule, Page-17, Item-22(b)). [Qty = 2 Nos]	Rs. 532.00
Supply and delivery of Electronic Timer suitable for 240/360/415V, 50 Hz (Make: L&T/ABB/Schneider/Simence/GE/Minilic) of the following time (Second) range: (UD & MAD 2018 Schedule, Page-18/19, Item-31 (a or b)	Rs. 1,395.00
Supply and fixing of 240/230 volt, 50 Hz, T.P., power contactor (Make: L & T/ABB/Schneider/Simence/ GE) having contact block of the following range d) 22-32Amp, 1NO/1NC. (UD & MAD 2018 Schedule, Page-16, Item-18(d)) [Qty = 2 Nos]	Rs. 2,436.00
Supply and delivery of Front mounted add-on auxiliary contractor block (Make: L & T/ABB/Schneider /Simence/ GE) of the following types: 9 to 80 amp. (UD & MAD 2018 Schedule, Page-19, Item-34(a)) [Qty = 4 Nos]	Rs. 1,828.00
Auto manual selector switch. Make: L & T S6-61026-B-13 (5 x 5 x 6 cm, Yellow) for Timer operation.	Rs. 450.00
Supply & delivery of the following 50 Hz, AC, Direct on Line Starter of continuous duty in sheet steel enclosure (make L&T/ABB/SCHNEIDER):(UD & MAD 2018 Schedule, Page-15, Item-15(b).	2,253.00
Bakelite Terminal Block and all other required item with complete erection and testing. (L.S.)	Rs. 2,000.00
Total	Rs. 22,735.00
	Say Rs. 22,735.00

[Signature]
Sub-Engineer
Chital Municipality

[Signature]
B. Mondel
05.09.2013
Junior Engineer (L)

Assistant Engineer
Mech. Divn.-V Mech. Divn-V, E & M Sec
K.M.D.A.

11.0	Fild Work Labour Charges:		
	(Ref;-PWDschedule, Page1of315, Sl.2/a)		
	(a)Depth of excavation not exceeding 1,500 mm.	Unit %Cum	Rate 11927
	Calculation: Depth=600 mm. Width=400 mm. Length=360 mtrs. Total field work (600 mm x 400 mm x 360 mtrs) $\approx$ 86.00 cu-m. Fild Work Labour Charges: (86.00 cu-m X 11927/100) Rs. 10257.22		



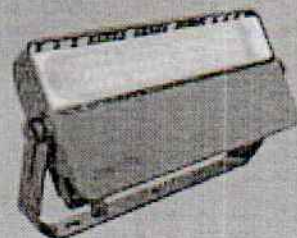
Sub-Assistant Engineer
Ghatal Municipality

P. Mondal
05-09-2023
Junior Engineer (E)
Mech. Divn.-V
E-M Sector. KMDA

Sub
05.09.2023
Assistant Engineer
Mech. Divn-V, E & M Sector
K.M.D.A.

Tango LED

"Best in class lens design & optical integration" is a flood lighting luminaire with single die ceramic base high power LED, PDC housing & integrated flood optics (SWB, NB, AMB, SMB, SWB) to ensure uniform distribution maintenance free system, ideal for sports lighting, area lighting and high mast lighting.



Type	HSN Code	MRP (INR)
BVP483 LED185 CW SWB PSU GR	9405	19,000/-
BVP483 LED185 CW NB PSU GR	9405	19,000/-
BVP483 LED185 CW SMB PSU GR	9405	19,000/-
BVP483 LED185 CW AWB PSU GR	9405	20,000/-
BVP483 LED185 CW AMB PSU GR	9405	20,000/-
BVP483 LED208 CW NB A1 PSU GR SPD*	9405	23,000/-
BVP483 LED210 CW SWB PSU GR	9405	21,000/-
BVP483 LED210 CW NB PSU GR	9405	21,000/-
BVP483 LED210 CW SMB PSU GR	9405	21,000/-
BVP483 LED210 CW AWB PSU GR	9405	22,000/-
BVP483 LED210 CW AMB PSU GR	9405	22,000/-
BVP483 LED234 CW NB A1 PSU GR SPD*	9405	25,300/-
BVP483 LED235 CW SWB PSU GR	9405	25,000/-
BVP483 LED235 CW NB PSU GR	9405	25,000/-
BVP483 LED235 CW AWB PSU GR	9405	25,000/-
BVP483 LED235 CW AMB PSU GR	9405	25,000/-
BVP483 LED235 CW SMB PSU GR	9405	25,000/-
BVP483 LED259 CW NB A1 PSU GR SPD*	9405	28,750/-

CCT option: NW/WW. | 10 KV SPD is provisioned inside luminaire is available in all options. | Dimmable option: 1-10V. | *135 efficacy and available in SWB, SMB, AWB, AMB optics also.

TempoLED

TempoLED is a flood lighting luminaire with single die ceramic base high power LED, PDC housing and unique flood optics (AMB, SY, NB) to ensure uniform distribution. maintenance free system ideal for area lighting, high mast and billboard.



Type	HSN Code	MRP (INR)
BVP410 P LED300 CW NB FG PSU SPD P4278	9405	54,000/-
BVP410 LED340 CW NB A1 PSU GR SPD*	9405	62,100/-

CCT option: NW/WW. | 10 KV SPD is provisioned inside luminaire is available in all options. |



LUMINAIRE TYPE

COLOUR TEMPERATURE

STANDARD PACKAGING

RSP ₹

TURBO LED : Floodlight luminaire

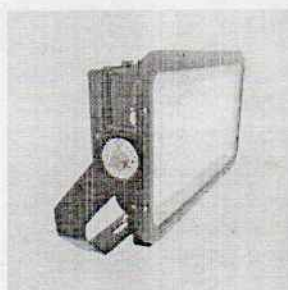
▶ BARFEG 160W LED	White	1	21000
BARFEG 180W LED	White	1	26000
BARFEG 200W LED	White	1	28000
BARFEG 240W LED	White	1	36000
BARFEG 350W LED	White	1	44000
BARFEG 400W LED	White	1	44500

LED floodlight luminaire with secondary optics made in pressure die-cast housing and heat sink in aluminium extrusion with IP 66.



AMAZE LED : Floodlight luminaire

BJFL 30W LED I	White	2	3000
▶ BJFL 50W LED I	White	1	5500
BJFL 60W LED I	White	1	6000
▶ BJFL 80W LED I	White	1	9300
BJFL 80W LED I WW	Warm White	1	9500
▶ BJFL 100W LED I	White	1	11000
▶ BJFL 120W LED I	White	1	12500
BJFL 120W LED I WW	Warm White	1	13000
▶ BJFL 150W LED I	White	1	14500
BJFL 150W LED I WW	Warm White	1	15000
▶ BJFL 180W LED I	White	1	19000
▶ BJFL 200W LED I	White	1	20000
BJFL 200W LED I WW	Warm White	1	21000



AMAZE LED : Higher wattage flood light luminaire

BJFL 240W LED	White	1	30000
BJFL 300W LED	White	1	33000
BJFL 350W LED	White	1	36000
BJFL 500W LED WH MB	White	1	83000
BJFL 500W LED WH NB	White	1	85000

3rd generation LED floodlight luminaire with ultra sleek, light weight and with secondary optics, made of pressure die-cast housings with IP 66 rating.



AVIATION LED : Luminaires

▶ BGAV 302 LED		4	4400
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Integral LED aviation light comprising of aluminium housing with polycarbonate enclosure.