



PRANANATH COLLEGE (AUTONOMOUS)

KHORDHA – 752057 (ODISHA)

NAAC Accredited 'A' Level

Tender Document For

“Supply, Installation & Commissioning of High Mast Tower Lights”

at

Prananath College (Autonomous), Khordha

Tender Document No: 19152904/2021-22/OHEPEE/002

Dated: 22.03.2022

Issued By:

Principal,

Prananath College (Autonomous), Khordha-752057

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SCHEDULE OF TENDER

Tender No.	19152904/2021-22/OHEPEE/002
Name of the tender issuer	Principal, Prananath College (Autonomous), Khordha
Scope of Work	Supply of “Supply, Installation & Commissioning of High Mast Tower Lights”
Quantity to be supplied	As per Annexure I
Cost / fee of Tender Documents	Rs. 1500/- in form of DD drawn in favour of Principal, Prananath College (Autonomous) payable at Khordha
Earnest Money Deposit (EMD)	20000/-
Performance Bank Guarantee (PBG)	5% of Bid Value
Date of issue of tender document	22.03.2022
Date & Time of Pre Bid clarification	04.04.2022
Last Date & Time for Submission of Bids	15.04.2022 & 05.00 PM
Date & Time of Opening of Techno Commercial Bid & Price Bid	16.04.2022 & 11.00 AM
Name of the contact person for communication	Dr. Priyabrata Mohanty, Reader in Chemistry
Contact Number of the concern person	9437046757
Address for communication	Principal, Prananath College (Autonomous), Khordha, 752057

1. **Requirement of Mobile Light Tower**

Sl. No.	Description of Materials	Qty.
1.	16 mtr Height high mast Tower with LED luminaries (04 nos / Tower)	04 nos

College reserves the right to vary quantity & place of installation.

2. **The detailed scope of work shall include :**

- Complete manufacturer, including shop testing & supply of all materials / equipment from the approved vender or from his manufacturing units.
- Providing engineering drawing, data, operational manual etc for the Purchaser's approval.
- Receipt, storage, preservation and conservation of equipment at the site.
- Pre-assembly, if any, erection testing and commissioning of all equipment.
- Reliability tests and performance and guarantee tests on completion of commissioning.
- Loading, Insurance, unloading and transportation as required.
- Commissioning of 16 mtr GI high mast tower with lantern carriage.
- Erection of LED lighting fixture of High Mast Tower (06 nos / tower).
- Erection of earthing for high mast tower.
- Erection of outdoor feeder panel board in the tower itself.

Details of the 16mtr High Mast Tower Light

I.	MAST STRUCTURE	16 Mtrs.
a.	Material Construction	BSEN 10025 / Fe510 C or equivalent
b.	Type of Welding (Longitudinal)	One
c.	No. of Circumferential Weld / Section	None
d.	Cross Section of Mast (Polygonal)	20 sides
e.	No. of Section of Mast	2
f.	Length of each section in mm.	
	i. Top Section	8300-8400 mm
	ii. Middle Section	-
	iii. Bottom Section	8300-8400 mm
g.	Thickness in mm. (bottom, top)	5, 4
h.	Base Dia / Top Dia (in mm)	460 / 150
i.	Size of Opening door at base in mm.	1200 × 250
j.	Diameter of Base Plate	670 mm
k.	Size of base plate thickness	30 mm
l.	Thickness of Galvaniation	70 Micron
II.	FOUNDATION DETAILS	
a.	No. of Foundation Bolt	12
b.	Bolt Diameter	30 mm

c.	PCD of Foundation Bolt	590 mm
d.	Type of Foundations	Open raft shallow footing
III. LANTERN CARRIAGE		
a.	Material of Construction	40NBERWclass-B, MS pipe
b.	Diameter of Carriage Ring	700 mm (ID)
c.	Luminaires arrangement	1800 single side facing
d.	Buffer arrangement between carriage & Mast	Nylon Padded Guide Ring
e.	No. of Fittings	6
f.	Type of Fittings	240 Watt LED fitting
IV. WINCH		
a.	No. of Drum / Winch	Double Drum
b.	Capacity	750 kg.
c.	Method of Operation	Electrical / Manual
d.	Lubrication Arrangement	Permanent Oil bath
V. WIRE ROPES		
a.	Grade / Construction	AISI 316, 7/19
b.	Centre Core Material	Stainless Steel core
c.	No. of Ropes	3 nos of 6mm for lantern carriage & 2nos of 6 mm for double drum winch
VI. CABLE		
a.	Material	Copper Conductor EPR insulated PCP sheathed Round Flexible Cable
b.	Conductor Size (each)	2.5 sq. mm.
c.	No. of Cores	5, Multistrand
VII. POWER TOOL (Reversible)		
a.	Type	Integral
b.	Input Supply	415 V., 3 Phase
c.	Rating	1.5 kw.

Supply, installation and commissioning of 16 mtr height, ground mounted high mast light tower manufactured with hot dip galvanized steel plates / tubes shall be delivered in multiple sections of suitable length. It will have a weather proof junction box made of Galvanised steel from which interconnections to the 6 sets of 240 Watt LED luminary fittings fixed on the carriage (hot dip galvanized) shall be made. A suitable winch arrangement of both motor and manual operation with a

specially designed head frame assembly (galvanized both internally and externally) at the top. Suitable size of flexible tailing cable for the electrical system of reputed make for the out going from the bottom to the top will be provided. The connection from weather proof top junction box to individual luminaries will be made with 3 core flexible PVC cable of suitable current carrying capacity as per need. Aviator obstruction light at the top and suitable earth terminals at the base of Mast will be provided. A suitable feeder pillar [with two coats of anticorrosive primer and grey enamel paint] will be provided with MCB switch gears, copper wiring, out going terminals & connectors for reversing the motor. Timer will be provided for auto operation of the lights. The luminaries should be suitable for High Mast.

The make of the Luminaries shall be of Phillips / Bajaj / Crompton / Surya Roshni / Wipro company only.

(A test certificate shall be furnished from the manufacturer for each winch in support of maximum load operated by winch)

3. HIGHMAST :

Structure:

The High Mast shall be of continuously tapered, polygonal cross section, at least 20 sided, presenting a good and neat appearance and shall be based on proven In- Tension design conforming to the standards referred to above, to give an assured performance, and reliable service. The structure shall be suitable for wind loading as per IS 875 part3 1987. The mast dimensions shall be as per enclosed datasheet.

Construction :

The mast shall be fabricated from special steel plates, conforming to BS-EN10025 S- 355 or equivalent, cut and folded to form a polygonal section as stated at 4.01 above and shall be telescopically jointed and welded. The welding shall be in accordance with BS.5135/AWS. The procedural weld geometry and the workmanship shall be exhaustively tested on the completed welds.

The mast shall be delivered in sections of effective length 10 metres at site. Thus 20/16/15 M mast in two sections to site. Each section shall be fabricated out of individual plates duly folded and welded. There shall be only one longitudinal seam weld per section. Sections fabricated out of multiple plates or with more than one weld shall not be accepted.

At site the sections shall be joined together by slip-stressed-fit method. No site welding or bolted joint shall be done on the mast. The minimum over lap distance shall be 1.5 times the diameter at penetration. The dimensions of the mast shall be decided based on proper design and design calculations shall be submitted for verification The mast shall be provided with fully penetrated flange, which shall be free from any lamination or incursion. The welded connection of the base flange shall be fully developed to the strength of the entire section. The base flange shall be provided with supplementary gussets between the bolt-holes to ensure elimination of helical stress concentration. For the environmental protection of the mast, the entire fabricated mast shall be hot dip galvanised, internally and externally, having a uniform thickness As per BSEN ISO-1461. The galvanizing has to be done by single dipping method only for better adhesion and life.

Door Opening :

An adequate door opening shall be provided at the base of the mast and the opening shall be such that it permits clear access to equipment like winches, cables, plug and socket, etc. and also facilitate easy removal of the winch. The door opening shall be complete with a close fitting, vandal resistant, weatherproof door, provided with a heavy-duty double internal lock with special paddle key. The door opening shall be carefully designed and reinforced with welded steel section, so that the mast section at the base shall be unaffected and undue buckling of the cut portion is prevented. Size of door opening shall not be more than 1200 x 250 mm to avoid buckling of the mast section under heavy wind conditions.

Dynamic Loading for the Mast:

The mast structure shall be suitable to sustain an assumed maximum reaction arising from a wind speed as per IS 875 (three second gust), and shall be measured at a height of 10 metres above ground level. The design life of the mast shall be a minimum of 25 years.

Fabrication:

A fabricated Lantern Carriage shall be provided for fixing and holding the flood light fittings and control gear boxes. The Lantern Carriage shall be of special design and shall be of steel tube construction, the tubes acting as conduits for wires, with holes fully protected by grommets. The Lantern Carriage shall be so designed and fabricated to hold the required number of flood light fittings and the control gear boxes, and also have a perfect self balance. The Lantern Carriage shall be fabricated in two halves and joined by bolted flanges with stainless steel bolts and nyloc type stainless steel nuts to enable easy installation or removal from the erected mast. The inner lining of the carriage shall be provided with protective PVC arrangement, so that no damage is caused to the surface of the mast during the raising and lowering operation of the carriage. The entire Lantern Carriage shall be hot dip galvanised after fabrication.

Junction Box:

Weather proof junction box, made of Cast Aluminium shall be provided on the Carriage Assembly as required, from which the inter-connections to the designed number of the flood light luminaires and associated control gears fixed on the carriage, shall be made.

Raising and lowering mechanism:

For the installation and maintenance of the luminaires and lamps, it shall be necessary to lower and raise the Lantern Carriage Assembly. To enable this, a suitable Winch Arrangement shall be provided, with the winch fixed at the base of the mast and the specially designed head frame assembly at the top.

Winch:

The winch shall be of completely self sustaining type, without the need for brake shoe, springs or clutches. Each driving spindle of the winch shall be positively locked when not in use, by gravity activated PAWLS. Individual drum also should be operated for fine adjustment of lantern carriage. The capacity, operating speed, safe working load, recommended lubrication and serial number of the winch shall be clearly marked on each winch.

The gear ratio of the winch shall be 53: 1. However, the minimum working load shall be not less than 750 kg. The winch shall be self-lubricating type by means of an oil bath and the oil shall be readily available grades of reputed producers.

The winch drums shall be grooved to ensure perfect seat for stable and tidy rope lay, with no chances of rope slippage. The rope termination in the winch shall be such that distortion or twisting is eliminated and at least 5 to 6 turns of rope remains on the drum even when the lantern carriage is fully lowered and rested on the rest pads. It should be possible to operate the winch manually by a suitable handle and by an integral power tool. Operation of the winch with manual handle shall be independent of the power tool. Winches with manual operation through the power tool shaft shall not be accepted. Individual drum operation of the winch shall be possible. A double drum winch shall have 2 drums and two worm gears independent in operation for increased safety. It shall be possible to remove the double drum after dismantling, through the door opening provided at the base of the mast. Also, a winch gear box for simultaneous and reversible operation of the double drum winch shall be provided as part of the contract.

The winch shall be type tested in presence of a reputed Institution and the test certificates shall be furnished before supply of materials. A test certificate shall be furnished by the Contractor for each winch in support of the maximum load operated by the winch.

4. **Head Frame:**

The head frame which is to be designed as a capping unit of the mast, shall be of welded steel construction, galvanised both internally and externally after assembly. The top pulley shall be of appropriate diameter, large enough to accommodate the stainless steel wire ropes and the multi-core electric cable. The pulley block shall be made of non-corrodible material, and shall be of die cast Aluminium Alloy (LM-6). Pulley made of synthetic materials such as Plastic or PVC is not acceptable. Self-lubricating bearings and stainless steel shaft shall be provided to facilitate smooth and maintenance free operation for a long period. The pulley assembly shall be fully protected by a canopy galvanised internally and externally.

Close fitting guides and sleeves shall be provided to ensure that the ropes and cables do not dislodge from their respective positions in the grooves. The head frame shall be provided with guides and stops with PVC buffer for docking the lantern carriage.

5. **Stainless Steel Wire Ropes :**

The suspension system shall essentially be without any intermediate joint and shall consist of only non-corrodable stainless steel of AISI 316.

The stainless steel wire ropes shall be of 7/19 construction, the central core being of the same material. The overall diameter of the rope shall not be less than 6 mm. The breaking load of

each rope shall not be less than 2400kg. giving a factor of safety of over 5 for the system at full load as per the TR-7 referred to in the beginning of this specification. The end constructions of ropes to the winch drum shall be fitted with talurit.

The thimbles shall be secured on ropes by compression splices. Two continuous lengths of stainless steel wire ropes shall be used in the system and no intermediate joints are acceptable in view of the required safety. No intermediate joints/terminations, either bolted or else, shall be provided on the wire ropes between winch and lantern carriage.

6. Electrical System, Cable and Cable Connections :

A suitable terminal box shall be provided as part of the contract at the base compartment of the high mast for terminating the incoming cable. The electrical connections from the bottom to the top shall be made by special trailing cable. The cable shall be EPR insulated and PCP sheathed to get flexibility and endurance. Size of the cable shall be minimum 5 cores 2.5 / 4.0 sq mm copper. The cable shall be of reputed make. At the top there shall be weather proof junction box to terminate the trailing cable. Connections from the top junction box to the individual luminaires shall be made by using 3 core 1.5 sq. mm flexible PVC cables of reputed make. The system shall have in-built facilities for testing the luminaires while in lowered position. Also, suitable provision shall be made at the base compartment of the mast to facilitate the operation of internally mounted, electrically operated power tool for raising and lowering of the lantern carriage assembly. The trailing cables of the lantern carriage rings shall be terminated by means of specially designed, metal clad, multipin plug and socket provided in the base compartment to enable easy disconnection when required.

7. Power Tool for the Winch:

A suitable, high-powered, electrically driven, internally mounted power tool, with manual over ride shall be supplied for the raising and lowering of the lantern carriage for maintenance purposes. The speed of the power tool shall be to suit the system. The power tool shall be single speed, provided with a motor of the required rating.

The power tool shall be supplied complete with a suitable control arrangement so that the operation of the mast can be done at a safe distance. The capacity and speed of the electric motor used in the power tool shall be suitable for the lifting of the design load installed on the lantern carriage.

The power tool mounting shall be so designed that it shall be not only self supporting but also aligns the power tool perfectly with respect to the winch spindle during the operations. Also, a handle for the manual operation of the winches in case of problems with the electrically operated tool, shall be provided. There shall be a separate torque-limiting device to protect the wire ropes from over stretching. It shall be mechanical with suitable load adjusting device. The torque limiter shall trip the load when it exceeds the adjusted limits. There shall be suitable provision for warning the operator once the load is tripped off. The torque limiter is a requirement as per the relevant standards in view of the overall safety of the system. Each mast shall have its own power tool motor.

8. Lightning Finial:

One number heavy duty hot dip galvanised lighting finial shall be provided for each mast. The lightning finial shall be minimum 1.2 M in length and shall be provided at the centre of the head frame. It shall be bolted solidly to the head frame to get a direct conducting path to the earth through the mast. The lightning finial shall not be provided on the lantern carriage under any circumstances in view of safety of the system.

9. Aviation Obstruction Lights:

Suitable Aviation Obstruction Lights of reliable design and reputed manufacturer shall be provided on top of each mast.

10. Earthing Terminals:

Suitable earth terminal using 12 mm diameter stainless steel bolts shall be provided at a convenient location on the base of the Mast, for lightning and electrical earthing of the mast.

11. Feeder Pillar:

Each mast shall be provided with a feeder pillar fabricated out of 14 SWG CRCA sheet and finished with two coats of red oxide primer and gray enamel paint of shade 631 of IS-5. The feeder pillar shall comprise of incoming MCB Isolator, Copper wiring, suitable timer, contactor to switch on the luminaires at a pre-set time. There shall be suitable control arrangement to change the direction of rotation of the power tool- motor. Feeder pillar shall be mounted on suitable foundation near to the mast.

12. Incoming Power Cable:

A cable of size 4 x 16 sq.mm Aluminum conductor, Armoured cable for power supply (max 10M) and 4 x 2.5 sq.mm Copper conductor Armoured cable for motor supply shall be provided from feeder pillar to the base compartment of the High Mast. Cable shall be taken to the base compartment of the High Mast through the provision made in the foundation. Power cable of suitable size up to the feeder pillar from supply point shall be provided by purchaser.

13. Control Panel, Cable and cable connection:

The control panels comprising the incomer MCB, changeover switch to receive power supply either from DG Set or other local supply, individual luminaires control MCB and auxiliary supply receptacle. A convenient receptacle externally mounted on the panel allows the accessibility to power without opening the side panels. A multi core copper cable of standard required rating is provided from panel to T bar which is terminated inside the T-bar. Receptacles provided on T bar to plug the luminaires. Earth point is provided on the body of the Mast along with earth spike and copper flexible cable of standard required rating.

The above specifications are just an indicative one. However the manufacturer/ Authorised Dealer may also quote their products of modified specification with justification in the variation of the specification.

Technical Specification of LED light Fixture for High Mast Tower

i. Scope of Work:

240Watt (Max) having > 21600 lumen output LED flood light fixture for mobile tower

This specification covers design, manufacture, testing and supply of 240 watt (Max) light for mobile tower (6nos/tower) complete with all accessories. The bidder should enclose performance certificate from the above users, issued in favour of Sub Vender/ manufacturer, as proof of successful operation in field.

Design, manufacture, Supply of LED flood lighting luminaire (as per IEC 60598-2-5: 1998) using high power LEDs for mobile tower lighting, complete with all accessories.

Applicable Standards:

The specification covers the manufacturing, testing before dispatch and delivery of luminaires complying in all respects to the following standards:

1. IES-LM-80-8 (IS 16105-2011): Method for measuring lumen maintenance for LED light sources.
2. IES-LM-79-08 (IS 16105-2011): Electrical and Photometric Measurement of solid state lighting products.
3. IS1944-Part V-1981: Lighting design parameters using high Mast lighting.
4. IS 10322: Insulation resistance, high voltage, Overvoltage protection, Environmental tests, Endurance test and other relevant tests.
5. IS 16104: Performance requirement for Electronic control gear for LED modules.
6. IS 16106: Method of electrical and photometric measurements of solid state lighting products.

Technical Details

1. Housing: Pressure die cast aluminum light weight and sleek.
2. Degree of protection: IP65 or more to ensure weather proof gasketing.
3. Thermal Management: Efficient heat management system with dissipating fins.
4. Correlated Color Temperature : Cool White (5500k or more)
5. Color Rendering Index: Typical 70 (+/-5%)
6. Lumen Maintenance : 70% of initial output (L70) @ 50,000 hrs
7. LED Source Efficacy : 100 lumen / W
8. LED Luminaire Efficacy : 90 lumen / W (As per LM 79 test report)
9. Driver efficacy : >85%
10. Driver in-built surge voltage Protection : minimum 10 KV
11. Luminaire Lumen Output: >21600 lumen (as per LM79 test report)
12. Power Factor: >0.95.
13. Name of the manufacturer to be embossed (no painting / stickering) on the luminaire.
14. Optical Performance : Each LED is being provided with specially designed lens to get optimum optical performance.
15. Driver protection : short ckt., Over Load, Open ckt. and no load

Documents to be submitted

1. LM 79 test report document of LED luminaire from NABL accredited lab, not more than 1 year old from the date of issue of tender.
2. LM 80 test report document of LED source.
3. Type test report of LED luminaire, from NABL accredited lab, not more than 1 year old from the date of issue of tender.

List of Makes

LED: Cree/ Nichia/ Phillips/ Osram

Luminaires: Phillips/ Bajaj/ Crompton/ Surya Roshni/ Wipro

TERMS AND CONDITIONS OF THE TENDER

1. SOURCE AND AVAILABILITY PERIOD OF TENDER PAPER

The tender paper is to be down loaded from our website i.e. till upto 2.00 pm. There will be no manual sale of tender paper. The DD amounting to Rs. 1500/- (Rupees Fifteen Hundred Only) only drawn in favour of Principal, Pranath College (Autonomous), Khordha on any scheduled Bank towards the cost of tender paper shall be submitted in the techno commercial bid along with the tender document.

2. PROCEDURE, DATE, TIME AND PLACE FOR SUBMITTING THE BIDS

Submission of Tender

The tender shall be submitted in two parts in two separate envelopes namely.

PART-I – TECHNO-COMMERCIAL BID

PART-II – PRICE BID for High Mast Tower.

The above two envelopes shall be covered in a third envelope super scribing “Tender for Mobile Tower lights”, NIT Number, due date of opening and complete address of the Bidder. The tender must be initiated on each page by the bidder. The tender should be addressed to The Principal, Pranath College (Autonomous), Khordha. The bid should be submitted by up to 5.00 PM. Each Bidder shall submit only one Proposal

The Bidder has the option of sending its proposal to Principal by registered post or speed post or courier. Bids submitted by telex / telegram / fax / e-mail shall not be considered under any circumstances. Bids received after the Bid Deadline shall not be accepted under any circumstances. Principal shall not be responsible for any delay in receipt of the Proposals. Any Proposal received by Principal after the Bid Deadline shall be returned un-opened.

3. DATE, TIME AND PLACE OF OPENING OF THE BID

The techno-commercial bid shall be opened in presence of the bidders or their authorized representatives at 11.00AM of 16.04.2022 in the office of the Principal. The techno commercial bids shall be evaluated by a committee of College and the price bid of the techno-commercially qualified bidders only shall be opened in presence of the bidders or their authorized representatives if any on a date which shall be intimated separately.

4. COST OF THE TENDER PAPER & EMD:

Cost of Tender paper	-	Rs 1500/- (Rupees One Thousand & Five hundred only)
Cost of EMD	-	Rs 20,000/- (Rupees Twenty Thousand only)

The cost of bidding document/paper along with EMD shall be submitted in shape of Bank draft drawn on any Nationalized / Scheduled Bank payable at Khordha in favour of “The Principal, Pranath College (Autonomous), Khordha. The DD towards the cost of tender document and EMD should be submitted in the envelope for techno commercial bid. EMD furnished by all unsuccessful bidders shall be returned after the expiry of tender validity period or within 30 days of the award of the contract/order, whichever is earlier. If the bidder withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of his tender or award of contract, the EMD will be forfeited. No interest shall accrue on the EMD.

5. EMD DEPOSIT:

The EMD of the successful bidder shall be returned after expiry of the warranty period i.e. 60 months from the date of installation & commissioning for mobile tower. If the successful bidder withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of his tender or award of purchase Order, the EMD shall stand forfeited. The decision of the Principal, Pranath College (Auto.), Khordha will be final and binding in this regard.

6. VALIDITY OF PROPOSAL:

The validity of the proposal should be three months from the Bid deadline. Principal, Pranath College (Auto.), Khordha reserves the right to reject any proposal which does not meet its requirement.

7. BID EVALUATION:

The bid evaluation process comprises of the following two steps:

1. Step I – Techno commercial bid evaluation
2. Step II – Price bid evaluation

Step I – Techno commercial bid evaluation

- i. The bidders whose proposal qualifiers in the techno-commercial bid evaluation process shall be declared as qualified Bidders. The price bid of the qualified bidders will be opened.
- ii. The Commercial Proposals/ price-bid submitted by the Bidders other than the Qualified Bidders shall be returned unopened.

Principal, Pranath College (Auto.), Khordha may seek clarification on the bid submitted by any or all bidders if required.

Step II – Price bid evaluation

- i. Envelope-2: Price bid shall be opened only of the Qualified Bidders.

The bidders offering Lowest Rate shall be declared as the preferred bidder.

The decision of Principal, Pranath College (Auto.), Khordha with regard to the bid evaluated shall be final and binding on all bidders, and shall not be available to be questioned before any forum or court of law.

8. ELIGIBILITY:

- I. The bidder should accept the tender conditions in the tender schedule. The bidder must download the tender paper from the Pranath College (Auto.), Khordha web site, sign on each page and submit in the envelop for Techno-Commercial bid. The products quoted by the bidder should be as per the requirement of the tender.
- II. The bidder must be a Manufacturer/ dealer of the mobile tower light / high mast light / manufacturer of Phillips/ Bajaj / Crompton / Surya Roshni / Wipro / Luminaries or authorized by the manufacturer/ company to participate in this tender.
- III. The bidder should have CST/ TIN/ PAN/ Service Tax Registration Certificate.

- IV. The bidder should have the technical capabilities to execute the order and with proven performance. The list of clients & performance certificate of clients/ work order copies are to be enclosed.
 - V. Bidder whose purchase order / Contract / Agreement had been terminated by Principal, Pranath College (Auto.), Khordha within the preceding three years including the year in which the Tender/ Bid is submitted, shall be ineligible to bid for this Tender and the Bid if submitted, shall be rejected summarily.
 - VI. Bidder has to submit an undertaking that he/she has not been blacklisted by any organization within last three years.
 - VII. Manufacturer / Authorised dealer should have its own office/ service centre in Odisha. The detail address and contact person with phone no must be furnished with the tender.
9. DOCUMENTS TO BE ENCLOSED IN THE ENVELOPE FOR TECHNO-COMMERCIAL BID:
- i. Forwarding letter as per schedule-1.
 - ii. Tender document downloaded from the website and signed by bidder on each page of the tender document.
 - iii. DD towards cost of tender paper.
 - iv. DD towards EMD.
 - v. Documents in support of the Manufacture / Luminaries Company / Authorisation letter from the manufacturer / company to participate in the bid.
 - vi. TIN/CST/PAN/Service Tax Registration certificate.

Non submission of any one or more of the above documents including the documents as mentioned in the eligibility criteria will entail rejection of the Techno-Commercial Bid.

While submitting the signed tender document in the techno-commercial bid, Bidders should maintain caution not to fill up the price bid format in the tender document. The filled in price should only be enclosed in the envelope for price bid.

10. RIGHT TO REJECT ANY OF THE PROPOSALS:

- i. Principal, Pranath College (Auto.), Khordha reserves the right to reject any proposal if:
- ii. It does not fulfill the eligibility criteria.
- iii. The required documents are not enclosed.
- iv. The bidder is otherwise ineligible.
- v. Bidder whose purchase order / contract / agreement had been terminated by Principal, Pranath College (Auto.), Khordha within the preceding three years including the year in which the Tender / Bid is submitted, shall be ineligible to Bid for this tender and bid if submitted, shall be rejected summarily.
- vi. Notwithstanding anything contained in this tender, Principal, Pranath College (Auto.), Khordha reserves the right to reject any proposal or to annul the bidding process or reject all Proposals, at any time, without any liability or any obligation for such rejection or annulment, without assigning any reasons whatsoever.
- vii. If the bidder selected through tender process fails to commence the work (supply, install etc.) within 60 days of issue of the order, Principal, Pranath College (Auto.), Khordha reserves the right to either award the work to the next lowest bidder; or take any such measure as may be deemed fit in the sole discretion of Principal, Pranath College (Auto.), Khordha

including annulment of the bidding process and forfeiture of the EMD/ security deposit and or invocation of the performance bank guarantee.

11. STATUTORY DUES:

The bidder is required to pay all statutory deposits and dues on their account without charging any thing extra to Principal, Pranath College (Auto.), Khordha. If any statutory claim arises in executing this work or completion of the said work the same shall be borne / settled by the supplier.

12. QUOTED RATE:

The rate should be quoted separately for each item. The rates should be inclusive of all taxes, transportation and installation charges. **The quoted rate should be type written and unconditional. The hand written / conditional quotation shall be rejected by Principal, Pranath College (Auto.), Khordha.**

13. SCOPE OF SUPPLY / WORK:

The bidder are required to transport the high mast tower lights to the respective sites & do their installation / commissioning within the stipulated period with its cost.

14. VARIATION OF QUANTITY:

The undersigned reserves the right to increase or decrease the quantities mentioned in the Tender.

15. PACKING SLIP:

The suppliers shall send packing slip with each consignment duly filled-in and complete in all respect.

16. COMPLETION PERIOD:

The materials should be supplied, installed and commissioned within sixty days from the date of issue of Purchase Order.

17. MODE OF DESPATCH:

By supplier's own arrangement.

18. PAYMENTS:

All payment shall be made at Pranath College (Autonomous), Khordha & the mode of payment shall be as follows:

- a) 70% payment of the order value shall be made after supply of material as per specification and quantity at the respective locations with due inspection and stock entry certificate by the authorized person of the College.
- b) 20% payment of the order value shall be released after satisfactory completion of the installation & commissioning of each tower, submission of warranty certificate and necessary certificate by the authorized person of the College.
- c) Balance 10% payment of the order value along with the EMD shall be released after completion of warranty period of 60 (sixty) months or this 10% shall be released against submission of BG of the same amount in the Principal, Pranath College (Auto.), Khordha format.

If the bidder does not attend the fault / defects noticed within the warranty period then it will be at the discretion of the Principal, Pranath College (Auto.), Khordha to rectify / make good of the works, the expenditure incurred by Principal, Pranath College (Auto.), Khordha for the same shall be recovered from the balance payment payable to the bidder as against 19 (c).

19. PENALTY:

In case supplier fails to deliver the materials within the delivery time stiputed in the P.O. the supplier shall be liable to pay penalty for such delay an amount equivalent to 0.25% of un-executed part of the order value per week subject to maximum limit of 5% of order value including taxes and duties. However Principal, Pranath College (Auto.), Khordha may consider waiving penalty on case to case on the basis of merit of the case against request of supplier justifying the delay. The P.O. shall be liable for cancellation if the delay exceeds twice the delivery period.

However, Principal, Pranath College (Auto.), Khordha shall review the evolving work requirement for the accomplishment of order by the vendor and required, may extend the time period.

20. WAIVER OF PENALTY:

If at any time during the Contract, the agency should encounter conditions impeding timely performance of service, the agency shall promptly notify to the Principal, Pranath College (Auto.), Khordha in writing of the fact of the delay, its likely duration and its causes(s). as soon as practicable after receipt of the agency's notice, the Principal, Pranath College (Auto.), Khordha shall evaluate the situation and may at its discretion waive the penalty. The waiver of penalty except under the Force Majeure conditions is at the sole discretions of Principal, Pranath College (Auto.), Khordha and shall not be available to be questioned by the bidder / Vender.

21. WARRANTY:

The warranty of the supplied materials including the luminaries shall be for a minimum period of 60 (Sixty) months from the date of installation / commissioning. The materials shall be repaired, replaced by the bidder at their own cost if the same are found ti be defective / non-performing during the warrantee period.

Some identification marks / Sl. No. etc shall be given on the supplied luminary fittings so as to avoid dispute on the warranty performance of the luminaries. The details of the luminaries need to be mentioned in the Challan.

22. LEGAL DISPUTE:

Legal dispute if any concerning this purchase shall be subject to the Jurisdiction of the courts at Khordha only in the state of Odisha.

SCHEDULE-1

Forwarding letter (To be enclosed in the Techno commercial Bid)

(On the Letter head of the Bidder)

(The bidders is required to indicate in this forwarding letter the details of the documents including DD attached in the bid)

Date:

To
The Principal,
Prananath College (Auto.), Khordha

Sub: Proposal towards supply, installation & commissioning of High Mast Tower Lights.

Being duly authorized to represent and act on behalf of _____ (hereinafter referred to as “the Bidder”), and having reviewed and fully understood all of the terms and conditions for submission of the proposal, the undersigned hereby submits the proposal for the work under the subject. We confirm that our Proposal is valid for a period of 3 (three) months from Bid Deadline indicated in the tender.

We submit the following documents in the Bid-

1. Cost of Tender Paper.
2. EMD.
3. Authorization letter to participate in the bid / manufacturer or Dealership certificate.
4. The details of the Light tower for which quoted.
5. Technical literature in support of the High Mast Tower.
6. Other relevant documents relating to the tender.

Principal, Prananath College (Auto.), Khordha and its authorized representatives are hereby specially authorized to conduct or to make any enquiry or investigations to verify the statements, documents and information submitted with this Proposal and / or in connection therewith and to seek clarification from our bankers, financial institutions and clients regarding the same.

The undersigned declared that the statements made and the information provided in this proposal is complete, true and correct in all respects.

Yours faithfully,

(Signature of the Authorized Signatory of Bidder)

ANNEXURE-C

PART-II PRICE-BID FORMAT

Format for commercial proposal

(On the letter head of the bidder)

(The commercial proposal shall not be conditional or with qualification. In case it is conditional or with qualification, the proposal shall be summarily rejected. The price bid should be type written)

Date:

To
The Principal,
Prananath College (Auto.), Khordha

Sub: Price-bid for supply, installation & commissioning of high mast tower lights

Dear Sir,

With reference to the captioned tender, we are pleased to offer our commercial proposal for following.

Sl. No.	Item	Price for supply installation and commissioning at the respective site including taxes in figures in Indian rupees per each tower	Price for supply installation and commissioning at the respective site including taxes in figures in Indian rupees per each tower
01	Supply, installation and commissioning of 16 mtr long high mast tower as per the specification of the Tender.		

The breakup of the landed price indicating basic price, taxes and duties, transportation, insurance, packing and forwarding etc are started below:-

- 1.
- 2.

Yours faithfully,

(Signature of the Authorized Signatory of Bidder)

ANNEXURE – IV

SELF DECLARATION FOR NOT BLACK LISTED

To,
The Principal,
Prananath College
(Autonomous), Khordha -
752057

Ref: Tender no. ----- Dated: -----

Madam/Sir,

I / We.....here by confirm that our firm has not been
banned or blacklisted by any Government organization/Financial institution/Court
/Public sector Unit /Central Government.

Date:

Place:

Signature & Seal of the Bidder