



KALNA MUNICIPALITY

Danga Para, Kalna, Purba Bardhaman, Pin-713409
E-Mail:- ckm.kalna@gmail.com, Website:- www.kalnamunicipality.org

Memo No- KAL/ 405/PW

DATE – 14/01/2022

TENDER NOTICE

TENDER NO:-WBMAD/KALNA/NIT-12/21-22

On behalf of Board of Administrators, Kalna Municipality, The Chairperson, Board of Administrators invite sealed two cover tenders for the following works from the eligible tenderers as papers particulars given below and will received by the under signed on behalf of board of Administrators, Kalna Municipality

A)

SI No	Name of Work	Amount put to tender (Rs)	Earnest Money in Rs. (2%)
1	Supply and Delivery and replacement of 45 Watt LED street light within Kalna Municipality under Green City Mission	Rs. 481080.00	Rs. 9622.00
2	Supply and Delivery and replacement of 60 Watt LED Street light within Kalna Municipality under Green City Mission	Rs. 472500.00	Rs. 9450.00
3	Supply and Delivery and replacement of 90 Watt LED Street light within Kalna Municipality under Green City Mission	Rs. 491844.00	Rs. 9837.00
4	Supply and Delivery and replacement of 120 Watt LED Street light within Kalna Municipality under Green City Mission	Rs. 481980.00	Rs. 9640.00

- Cost of Earnest Money Deposit should be deposited in ICICI BANK, Kalna Branch Account No. 089401000342, IFS CODE – ICIC0000894 in favor of Chairman, Kalna Municipality through RTGS/NEFT/CBS System only. The NIT No. and/or SL NO number should be clearly mentioned on the deposit challan. Payment made otherwise will be rejected.



B	Name of the authority who Will accept the tender	Chairperson, Board of Administrators, Kalna Municipality
C	Documents require to be submitted along with the Application for obtaining tender paper	<p>A) Tenderers should Submit Xerox Copy of sufficient experience certificate of at least 40% for the similar nature of works, Pan Card, GST Registration Certificate, Valid Professional Tax Challan / Certificate, Income Tax (last 3 years), Trade license, Earnest Money Deposit Receipt, Tender Fees Deposit Receipt.</p> <p>B) The manufacturer of LED luminaries or their authorized agency only be allowed to participate in the Tender</p> <p>C) The LED luminaries Submit Warranty Certificate duly signed by not below the rank of regional Manager / Area Manager from LED Luminaries Manufactures.</p>
D	Name & Address of the Engineer-in- Charge	Sub-Assistant Engineer, Kalna Municipality
E	Tender is to be Submitted	In sealed two Cover System (i) Technical (ii) Financial
F	Date of Publication of NIT	14/01/2022 at 11.00 AM
G	Last Date and time for Dropping Sealed tender with all documents	24/01/2022 up to 5.00 PM
H	Date and time for opening Sealed tender.	25/01/2022 up to 11.00 AM
I	Time limit for completion	30 Days from the date of issue of work order.
J	Authority who recommends the Tenderer.	Tender documents will be checked for Pre-Qualification as per requirement mentioned in the earlier table by the Tender Committee, Kalna Municipality
K	Mode of Issue of tender Paper	Agreement / tender Paper will be issued by the chairperson to the lowest bidder



[Handwritten Signature]
 Chairperson
 Board of Administrators
 Kalna Municipality

TERMS AND CONDITIONS

- If the agency fails to do the work as per the agreement with the municipality, penal action in the form of forfeiture of earnest money and or security deposit money, as decided by the authority, will be imposed on the agency and the decision of the authority will be conclusive and binding. In this respect, the Chairman, KALNA Municipality shall be empowered to invoke the Earnest Money deposited in favour of him. No price escalation, in any form, within the contract period will be entertained.
- The rate quoted should be inclusive of all cost of transportation, loading, unloading, staking at site within any municipal area of the State of West Bengal, and all Taxes, GST, etc. what so ever
- The Mayor / Chairperson of Municipal Corporation / Municipality shall have power to make any alteration in, omissions from, additions to or substitution for the original specification, drawings, designs and instructions, that may appear to him to be necessary or advisable during the course of execution of the works and the tenderer shall be bound to execute the works in accordance with any instructions which may be given to him in writing signed by the Chairperson Kalna Municipality and such alterations, omissions, additions or substitutions shall not invalidate the works and any altered addition or substituted materials which the tenderer may be directed to supply in the contract in the manner above specified as part of the work shall be supplied or executed by the tenderer on the same conditions in all respect on which he agreed to do the main work, and at the same rates as are specified in the tender for the main work.
- Penalty for suppression / distortion of facts :

If any tenderer fails to produce the original hard copies of the documents uploaded or any other documents on demand of the Tender Inviting Authority within a specified time frame or if any deviation is detected in the hard copies from the uploaded soft copies or if there is any suppression, the tenderer will be suspended from participating in the tenders on e-Tender platform for a period of 3 (Three) years. In addition, his user ID will be deactivated and Earnest Money Deposit will stand forfeited. Besides, the Chairman, Kalna Municipality may take appropriate legal action against such defaulting Tenderer. The authority may ask to show hard copies of all certificates, company details, partnership deeds etc. etc. as uploaded by the Tenderer and allied papers in connection with this tender as and when necessary for verification purpose as per convenience of the authority during processing of this tender.

- Rejection of Tender

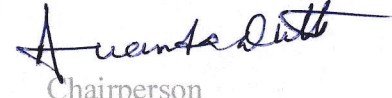
The employer (Tender accepting authority) receives the right to accept or reject any Tender and to cancel the quotation process and reject all quotations at any time prior to the award of contract without thereby incurring any liability to the affected Tenderer or any obligation to inform the affected tenderer of the ground for employer's (Tender accepting authority) action.

Payment will be made after deduction of Security Money, IT, GST, CESS.

Security Money will be refunded as per Govt Rules



The contractor shall comply with the provision of the apprentices Act, 1961 and the rules and order issued there under from time to time. If he fails to do so authority of Kalna municipality may in the discretion to cancel the contract. The contractors shall also be liable for any pecuniary liability arising on account of any violation by him the provision of the Act.



Chairperson
Board of Administrators
Kalna Municipality
Chairperson
Board of Administrators
Kalna Municipality

Memo No. –KAL/ 405 (1-8) /PW

Date- 14/01/2022

Copy forwarded for favor of information and wide publication to the

- 1) Joint Secretary, Urban Development Department, NAGARAYAN, Kolkata
- 2) District Magistrate ,Purba Bardhaman
- 3) Superintending Engineer, west circle, Purba Bardhaman
- 4) Executive Engineer, MED, Purba Bardhaman
- 5) S.D.O, Kalna,Purba Bardhaman
- 6) Finance Officer, Kalna Municipality, Purba Bardhaman
- 7) Executive officer ,Kalna Municipality, Purba Bardhaman
- 8) Office Notice Board, Kalna Municipality, Purba Bardhaman



Chairperson
Board of Administrators
Kalna Municipality
Chairperson
Board of Administrators
Kalna Municipality



MECHANICAL SPECIFICATION

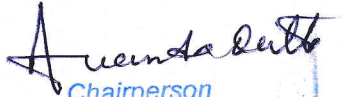
HOSUING/CONSTRUCTION

- LED Street light luminaries should be powder coated and housed in a single piece Pressure die cast non-corrosive Aluminum alloy enclosure with optimal fins for Heat Sink Mechanism
- Luminaries should have UV stabilized; injection molded heat resistant PC lens cum cover.
- Luminaries must have thermally Isolated Driver of same make and Optical compartments for efficient heat management and to ensure sustainable operation.
- The fixture shall have Ingress Protection of IP 66 Rating for both for Optical & Electrical Compartments.
- IP Test Report for the same need to be furnished from any Govt. Approved or NABL accredited Laboratory.
- Windage area should not exceed 0.125 sq. Mtr. Per fixture till 150W & 0.17Sq. Mtr. Per fixture till 250w.
- Luminaries should be rated with Impact resistance of minimum IK07 MAINTANANCE.
- Luminaries should have side pole mounting option with outer pole Diameter 50mm.
- Driver compartment should have bottom maintenance in installed condition with IP66 level of protection.
- Driver should be replaceable in the filed condition in case of any malfunction.

ELECTRICAL SPECIFICATION

DRIVER

- Luminaries should consist of Universal Voltage driver to handle wide operating voltage range from 140-300V AC and frequency range of $50 \pm 3\%$ with Isolated type operation in constant current topology.
- Driver housing should be made of extruded Aluminum case and silicon potted to ensure safety against shock risk, also increase the reliability against internal heat and moisture ingress. Potted Driver for luminaries below 45W may be ignored.
- Driver shall have high efficiency $> 80\%$ and have inbuilt safety features like Over voltage, Short circuit, Over load, Thermal protection and Reverse Polarity protection.
- The luminaries should have an internal surge protection of 4KV L-L and 6KVL- and provide integrated SPD with 10KV protection. Driver should work continuously up to 320VAC without any failure.
- The driver should be rated for IP66 or more against dust and moisture for a longer life.
- Power Factor shall be Equal to 0.95 or more.
- THD of the luminaries shall be $< 5\%$.
- Driver should preferable be of same make.


Chairperson
Board of Administrators
Kalna Municipality

LIGHT ENGINE

- The light engine should use Metal Core PCB with high grade Aluminum (AL5052) and should have thermal conductivity of $> 2\text{W/mK}$.
- The Junction temperature of LED shall be < 85 degree Celsius. Thermal Test Report from NABL approved/accredited lab will be submitted to support the same.
- Rated Operating Temperature should be 0 deg to $+ 55$ deg C with a relative humidity of 10-95% RH.
- THD of the luminaries shall be $< 5\%$.

OPTICAL SPECIFICATION

- Approved make for LED shall be Nichia/Cree/Osram/Lumileds make LED Chip.
- The LED shall be of Surface Mounted Design (SMD).
- Life of LED shall be rated at 50,000 hrs or above @ L70.
- System Efficiency at Luminaries Level shall be minimum 120 Lumens/Watt for 90 watt and above and for luminaries below 90 watt above, System Efficacy at Luminaries Level shall be minimum 115 Lumens/Watt whereas LED Chip level efficacy shall be minimum 160 Lumens/Watt.
- CRI (Color Rendering Index) shall be > 70 .
- Correlated Color Temperature shall be nominal 5700K (with variation limits of $\pm 355\text{K}$) per ANSI C 78.377A CCT standard
- The light engine should have A suitable secondary optics to deliver desired light distribution to meet the luminance Criteria.

The luminaries should be capable of withstanding voltage stress of 440V for 8Hrs. should have auto shutdown @325V and have an auto recovery future.

TEST REPORT/WARRANTY

Following reports shall be submitted from NABL accredited Lab-

- (a) LM 79 for Luminaries
- (b) IP66 or more Test for Luminaries
- (c) Driver IP 66 & IEC 61000-4-5
- (d) IK 07 Test Report
- (f) Thermal Test Report
- (g) Compliance to IEC 60598 Type test report
- (h) Compliance to IEC 61347-2-13: Driver Test Report
- (i) Compliance to IEC 62384: Driver performance test report
- (j) Compliance to IEC 61547: EMI and EMC (k) Compliance to CISPR 15
- Bidder shall provide LM 80 report from LED chip manufacturer and will carry Watermark of Luminaries manufacturer.
- Luminaries shall have seven years replacement warranty from actual date of completion of work including Driver / Control Gear, LED, all accessories etc.
- The manufacturers of the luminaries must have its own R & D wing with in house testing facility accredited by NABL.
- Drivers & Luminaries should have mandatory BIS certified
- CE Certified
- Rohs compliant



The manufacturer should submit the following in-house testing facility along with bid for quality checks:

- a. Test Bench for EMI/EMC measurement.
- b. Test Bench for High Voltage, Surge, Burst & Voltage dips.
- c. Test Chamber for humidity and temperature of environmental testing.
- d. Photometry Laboratory with Gonio photometer and / or Integrating Sphere for complete light fixture, to be able to create IES files.

IMPORTANT NOTE

- The Manufacture Name and Logo should be engaged / Embossed on the housing/body to allow traceability till the life of the fixture. No sticker will be accepted.
- Lighting Supplier shall have his own Manufacturing. Powder coating and assembly of the Luminaire in the Supplier's Manufacturing facility
- **Design Requirement Conformity:** All lighting design must be done in than 0.85. Original design done in Dialux to be submitted and original IES file used for the design to be submitted.

The average minimum lux level should be as per ISI944: Part 1 & 2:1972



Ananta Dutt
Chairperson
Board of Administrators
Kalna Municipality

Details Estimate: -

<u>SI No - 01</u>					
Name of Work : Supply and Delivery and replacement of 45 Watt LED Street light within Kalna Municipality Under Green City Mission					
SI No	Description of Items	Quantity	Unit	Rate	Amount
1	Supply and Delivery of 45-Watt LED Street light with pressure die cast aluminum housing IP66 protection road way luminaries with high power LED as per detail technical proposal specification. (Make & Model Nos :- 1. BAJAJ - ENXTP45LWW CRPCSD 2. Philips -BRP056LED 47 PSU SI 3. Crompton - LSTS-45-CDL-M 4. Havells- ENDURA CITYLITE PLATPLUS SL 45W LED 757SASY BO PC) OR Any Reputed make having Same Technical Specification (Warranty - 07 years)	120.00	Nos	4009.00	481080.00

<u>SI No - 02</u>					
Name of Work: Supply and Delivery and replacement of 60 Watt LED Street light within Kalna Municipality Under Green City Mission					
SI No	Description of Items	Quantity	Unit	Rate	Amount
1	Supply and Delivery of 60-Watt LED Street light with pressure die cast aluminium housing IP66 protection road way luminarie with high power LED as per detail technical proposal specification. (Make & Model Nos :- 1. BAJAJ - ENXTP60LWH CRPCSD 2. Philips- BRP062LED 65 CW SLC SI PSU 3. Crompton - LSTS-60-CDL-M 4. Havells- ENDURA CITYLITE PLATPLUS SL 60W LED 757SASY BO PC) OR Any Reputed make having Same Technical Specification (Warranty - 07 years)	100.00	Nos	4725.00	472500.00



Ananda Datta
Chairperson
Board of Administrators
Kalna Municipality

SI No - 03

Name of Work: Supply and Delivery and replacement of 90 Watt LED Street light within Kalna Municipality
Under Green City Mission

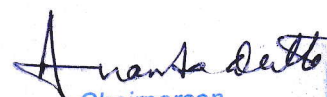
SI No	Description of Items	Quantity	Unit	Rate	Amount
1	Supply and Delivery of 90-Watt LED Street light with pressure die cast aluminum housing IP66 protection road way luminaries with high power LED as per detail technical proposal specification. (Make & Model Nos :- 1. BAJAJ - BRTF120W LED CR 2. Philips- BRP406LED 130 CW SLC FG PSU GR V2 3. Crompton - LSTS-90-CDL-M 4. Havells- ENDURA ENDURA PEARL LMAG SL 120W LED 757 PASY TOP CASTHO) OR Any Reputed make having Same Technical Specification (Warranty - 07 years)	68.00	Nos	7233.00	491844.00

SI No - 04

Name of Work: Supply and Delivery and replacement of 120-Watt LED Street light within Kalna Municipality
Under Green City Mission

SI No	Description of Items	Quantity	Unit	Rate	Amount
1	Supply and Delivery of 120 Watt LED Street light with pressure die cast aluminum housing IP66 protection road way luminaries with high power LED as per detail technical proposal specification. (Make & Model Nos :- 1. BAJAJ - BRTF120W LED CR 2. Philips- BRP406LED 130 CW SLC FG PSU GR V2 3. Crompton - LSTS-90-CDL-M 4. Havells- ENDURA ENDURA PEARL LMAG SL 120W LED 757 PASY TOP CASTHO) OR Any Reputed make having Same Technical Specification (Warranty - 07 years)	60.00	Nos	8033.00	481980.00




Chairperson
Board of Administrators
Kalna Municipality

FORM - I
PRE-QUALIFICATION APPLICATION
(To be provided on letter head of the reputed firms/agencies/individuals)



To
Chairperson
Board of Administrators
Kalna Municipality
Kalna, Purba Bardhaman

Ref. : Application for the Work of

N.I.T. No. : WBMAD/KALNA/NIT-12/21-22 DATED :- 14/01/2022

Dear Sir,

Having examined the N.I.T. documents, I /we hereby submit all the necessary information and relevant documents for evaluation.

The application is made by me / us on behalf of _____ in the capacity _____ duly authorized to submit the order.

The necessary evidence admissible by law in respect of authority assigned to us on behalf of the group of firms for Application and for completion of the contract documents is attached herewith.

We are interested in bidding for the work(s) given in Enclosure to this letter.

We understand that:

- 1) Tender Inviting & Accepting Authority / Engineer-in-Charge can amend the scope & value of the contract bid under this project.
- 2) Tender Inviting & Accepting Authority / Engineer-in-Charge reserve the right to reject any application without assigning any reason.

Seal and Signature of the Tenderer

FORM - II
Financial BID

(To be provided on letter head of the reputed firms/agencies/individuals)

To
Chairperson
Board of Administrators
Kalna Municipality
Kalna, Purba Bardhaman



Ref. : Submission of Financial Bid for the Work of _____

N.I.T. No. : WBMAD/KALNA/NIT-12/21-22 DATED :- 14/01/2022

Sir

As per Your Notice I/we are interested to complete the following work & our Tender amount given below

SI No	Description of Items	Quantity	Unit	Rate	Amount
Total in Figures					
Quoted Rate in Figures		Excess (+) / Less (-)			
Quoted Rate in Words:					