



KALNA MUNICIPALITY

Danga Para, Kalna, Purba Bardhaman, Pin-713409
E-Mail:- ckm.kalna@gmail.com, Ph :- 03454-255004
Website:- www.kalnamunicipality.org

Memo No- KAL/605/PW

DATE – 25/01/2021

TENDER NOTICE

TENDER NO:-WBMAD/KALNA/NIT-11/20-21

Sealed tenders in printed form as specified are invited for the following work from the eligible bonafide tenderers as per particulars given below and this will be received by the undersigned in his office up to the time specified therein.

A)

Sl No	Name of Work	Qty (Nos)	Amount put to tender (Rs)	Earnest Money inRs. (2%)	Cost of Tender Paper
1	Supply & Delivery of 120 Watt LED street Light with pressure die cast aluminum housing, IP66 protection, road way luminaire with high power LED as per the detail technical proposal specification & Vender list attached. (LED should be warranty for 07 years.)	60	Rs. 04,81,980.00	Rs. 9640.00	Rs. 1000.00
2	Supply & Delivery of 90 Watt LED street Light with pressure die cast aluminum housing, IP66 protection, road way luminaire with high power LED as per the detail technical proposal specification & Vender list attached. (LED should be warranty for 07 years.)	65	Rs. 04,70,145.00	Rs. 9403.00	Rs. 1000.00
3	Supply & Delivery of 60 Watt LED street Light with pressure die cast aluminum housing, IP66 protection, road way luminaire with high power LED as per the detail technical proposal specification & Vender list attached. (LED should be warranty for 07 years.)	100	Rs. 04,72,500.00	Rs. 9450.00	Rs. 1000.00



Kalna Municipality


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Board of Administrators
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- 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.
- Cost of Tender Fees 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. (Non-Refundable)

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 within this contract shall have warranty for a Period of Eighty Four (84) Months. 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	Last date and time limit for submission of application for purchasing tender documents	03/02/2021 up to 4.00 PM (Applications to be submitted to the office of the Kalna Municipality)
F	Last date and time limit for purchasing tender document	03/02/2021 up to 5.00 PM.
G	Date and time for receiving Sealed tender.	04/02/2021 up to 02.00 PM
H	Date and time for opening Sealed tender.	04/02/2021 up to 04.00 PM
I	Time limit for completion	15 Days from the date of issue of work order.
J	Mode of issue of tender paper	Tender paper will be issue on the recommendation of Sub- Assistant Engineer, Kalna Municipality



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Payment will be made after deduction Security Deposit, GST, IT (As per Govt Norms)

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.




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Kalna municipality
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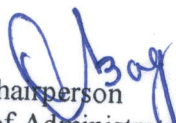
Memo No. -KAL/ 605 /PW

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Copy forwarded for favor of information and wide publication to the

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




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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.

LIGHT ENGINE

- The light engine should use Metal Core PCB with high grade Aluminum (AL5052) and should have thermal conductivity of $> 2W/mK$.
- 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

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- 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 $\pm 355K$) 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 80report 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.

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- 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




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VENDOR LIST

For 30 Watt Street Light Luminary Complete

Make & Model No. :

- 1) Bajaj (model no. ENXTP30LWHCRPCSD)
 - 2) Philips (Model no. BRP045LED32CW MR1S1 PSU GR SPD)
 - 3) Crompton (Model no. LSTS-30-CDL-M)
 - 4) Havells (Model no. ENDURA CITYLITE PLATPLU SSL 30W LED 757SASY BO PC)
- OR ANY Reputed Make Having Same Technical Specification Attached.

For 45 Watt Street Light Luminary Complete

Make & Model No. :

- 1) Bajaj (model no. ENXTP54LWWCRPCSD)
 - 2) Philips (Model no. BRP056LED47 PSU S1)
 - 3) Crompton (Model no. LSTS-45-CDL-M)
 - 4) Havells (Model no. ENDURA CITYLITE PLATPLUS SL 45W LED 757SASY BO PC)
- OR ANY Reputed Make Having Same Technical Specification Attached.

For 60 Watt Street Light Luminary Complete

Make & Model No. :

- 1) Bajaj (model no. ENXTP60LWH CRPCSD)
 - 2) Philips (Model no. BRP062 LED 65 CW SLC S1 PSU)
 - 3) Crompton (Model no. LSTS-60-CDL-M)
 - 4) Havells (Model no. ENDURA CITYLITE PLATPLUS SL 60W LED 757SASY BO PC)
- OR ANY Reputed Make Having Same Technical Specification Attached.

For 90 Watt Street Light Luminary Complete

Make & Model No. :

- 1) Bajaj (model no. BRFTFG120W LEDCR)
 - 2) Philips (Model no. BRP406 LED 130 CW SLC FG PSU GR V2)
 - 3) Crompton (Model no. LSTS-90-CDL-M)
 - 4) Havells (Model no. ENDURA PEARL LMAG SL120W LED 757 PASY TOPCASTHO)
- OR ANY Reputed Make Having Same Technical Specification Attached.

For 120 Watt Street Light Luminary Complete

Make & Model No. :

- 1) Bajaj (model no. BRFTFG120W LEDCR)
 - 2) Philips (Model no. BRP409 LED 115 CW SLC FG PSU GR V2)
 - 3) Crompton (Model no. LSTP-120-CDL-M)
 - 4) Havells (Model no. ENDURA PLATPLUS SL 90W LED 757 PASY TOPCASTHO)
- OR ANY Reputed Make Having Same Technical Specification Attached.

For 200 Watt LED Flood Light complete

Make & Model No. :

- 1) Bajaj (model no. BJFL 200W LED White)
 - 2) Philips (Model no. BVP 483 LED 235 CW SWB PSU GR)
 - 3) Crompton (Model no. LFLN-200-CDL/60-M)
 - 4) Havells (Model no. JETAVALOURFL 200W LED 757 PINTNBLTG)
- OR ANY Reputed Make Having Same Technical Specification Attached.



[Signature]
Chairperson
Board of Administrators
KALNA MUNICIPALITY

[Signature]
Executive Engineer (Civil)
Urban & MA Deptt.
Govt. of W.B.

[Signature]
Executive Engineer
Central Mechanical Division

[Signature]
05/11/20
Superintending Engineer
Electrical Circle-II
E-M Sector, KMDA

[Signature]
05/11/20
Superintending Engineer (E/M)
KMDA

[Handwritten]
12/03/20
E.E (C)
GCM