

NEW TOWN KOLKATA DEVELOPMENT AUTHORITY

(A Statutory Authority Under Government of West Bengal) 3, Major Arterial Road, New Town, Kolkata - 700 156

Memo No. 5406/NKDA/EE-E/2021

Date: 01-06-2021

NOTICE INVITING e-QUOTATION

Notice Inviting e-Quotation No.01/EE-E/NKDA/2021

Executive Engineer (E), New Town Kolkata Development Authority invites quoted rate equotation from resourceful, reliable, bona-fide manufacturer or authorized dealer having experience in similar nature of work at WBHIDCO, PWD, PHED, WBSEDCL and other Govt. departments are requested to submit their offer for the work detailed below.

(Submission of Bid through online)

SI. No	Name of the work	Estimated Amount(Rs.)	Earnest Money(Rs.)	Price of Tender documen ts	Period of Completion
1	Conversion of conventional to LED street light at New Town under NKDA	Agency has to Quote.	Earnest money Rs.5,00,000.00 (Rupees Five lakh) only Lumpsum to submit through Online payments/RTGS/NEFT from ICICI Bank. In favour of "Newtown Kolkata Development Authority" payable at Kolkata.	As per finance (Audit) Dept, WB Notification vide memo no 452- A/PW/0/10C-35/10 dated on 26/07/2011 GST will be added only per set to be paid only at the time of agreement.	A)120(One hundred and twenty) Days for Supply, Installation, Testing, Commissioning B) Maintenance period 05(Five) years.

- 1) In the event of e-filling, intending bidder may download the tender documents from the website http://wbtenders.gov.in directly with the help of Digital Signature Certificate. All the bidder shall have to submit Earnest Money & necessary earnest money will be deposited by the bidder through the following payment mode as finance dept. order no. 3975-F (Y) dated 28th July 2016 (Annexture-A).
 - i) Net banking (any of the banks listed to the ICICI bank payment gateway) in case of payment through ICICI payment gateway. RTGS/NEFT through bank account in any bank. The EMD shall be deposited in favor of "Newtown Kolkata Development Authority" payable at Kolkata.
- 2) Both **Technical Bid** and **Financial Bid** are to be submitted concurrently duly digitally signed in the website http://wbtenders.gov.in

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Phone: 033-2324-2324 / 2132 / 2148, 18003451571

Fax: 033-2324-2147 Website: www.nkdamar.org

- 3) Tender documents may be downloaded from website and submission of Technical Bid and Financial Bid will be done as per Time Schedule stated in Sl. No. 14 of this NIeT.
- 4) The **FINANCIAL OFFER** of the prospective qualified tenderer(s) will be considered only if the **TECHNICAL BID** of the tenderer(s) is found qualified by competent authority of New Town Kolkata Development Authority. The decision of the competent authority of New Town Kolkata Development Authority will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the website.

5) Eligibility criteria for participation in the tender:

i. Working Contractors of NKDA, WBHIDCO, PWD, WBSEDCL and other Govt. Departments having satisfactorily completed (as prime contractor) at least one work of similar nature having magnitude of at least Rs.90,00,000.00 during the last 5 years. Authentic documents in original, from the Engineer-in-charge of the work will have to be submitted in support of the above credential as non-statutory documents.

Note: In support of credentials bidder must submit work order, BOQ, completion certificate during online tender submission.

ii. Bidder have registered office & field service setup to provide good after sale services including necessary repair & maintenance in the state of West Bengal.

iii. Pan Card, Income Tax Acknowledgement Receipt for the latest Assessment year, P.T. Deposit Challan for the current year, GST Registration and PF registration Certificate are to be submitted as non-statutory documents.

iv. The farm must not have been debarred / blacklisted by any Govt. Dept., agency, PSUs / institution / agencies / autonomous organizations. The bidder shall submit a self-certification by an authorized person duly notarized to this effect.

v. Registered Partnership Deed for Partnership Firms only along with Power of Attorney since executed under any Judicial Magistrate/First Class Magistrate is to be submitted. The company shall furnish the Article of Association and Memorandum as non-statutory documents.

vi. The prospective bidders shall have PF & ESI enlistment. The last Month Challan & ECR copy of PF & ESI shall be furnished for Technical Evaluation.

vii. The prospective bidders in their fulltime engagement experienced technical personnel, the minimum being one Electrical Engineering Diploma holder (Authenticated documents in respect of qualification and Full time Employment through ECR copy of PF & ESI for engagement shall be furnished for Technical Evaluation.) (If Technical Person is being Proprietor/Partner/Director of Company then ECR copy may not require).

viii. The prospective bidders in their fulltime engagement experienced Electrical Supervisor, having SSC Part of 1,2,4,5,6A,7A,11 or National (Authenticated documents in respect of qualification and Full time Employment through ECR copy of PF & ESI for engagement shall be furnished for Technical Evaluation.) (If Supervisor having above mentioned Part is being Proprietor/Partner/Director of Company then ECR copy may not require).

ix. Bidder must submit OEMs authorization, OEMs Lumineers minimum five years warranty certificate declaration.

x. Joint Ventures/MOU will not be allowed.

- 6) All materials are to be procured and supplied at site of work by the tenderer / firm at his / their own cost from approved reputed dealer / manufacturer. Departmental materials will not be issued under any circumstances unless any such provision is made and accepted latter by both the parties. Department unless otherwise stated means New Town Kolkata Development Authority. The prospective applicant shall be capable to establish Field Testing Laboratory equipped with requisite Instruments and Technical Staff complete in itself to carry out all necessary Tests for such project.
- 7) Mobilization advance, time / cost overrun and consequent cost escalation for any material labour etc. and secured advance will not be allowed.

- 8) The offer shall remain valid for 6 (Six) Month from the date of opening of the tender.
- 9) On-going payments for work may be allowed to the executing agency as per existing rules and availability of fund. Subject to deduction of security deposit, progressive payment may be made against the completed or partly completed item of works. Such interim payments, shall be made as running account bill(s), however, shall not construed to mean that the respective items / components have finally been approved and accepted by NKDA and the contractor shall not be absolved of his responsibility to set right any deficiency of such paid items / components at his/ their own cost, for rectifying all defects which are subsequently being noted or found.
- 10) No claim for interest or compensation will be entertained in respect to any money or balance of payment which may be due or alleged to be due to the contractor owing to any dispute between the contractor and NKDA or in respect to any delay in making payment of progressive or final bill of the work, to the contractor.

Payment for the works done by the contractor will be based on recorded and accepted measurement put for payment to be invariably made by putting signature (with seal) of the contractor (or his/ their authorized representative). The contractor or his / their authorized representatives are advised to take measurements jointly with the officials of NKDA. In case of failure of his/their part either to take measurement jointly and /or acceptance of the recorded measurement, within a reasonable time, measurement taken by the department shall be considered as final for making payment. Similar acceptance is also essential for level records and survey data, field books etc.

11) Idle labour, idle rent and hire charges etc.:

No claim of any category and type, on this ground shall be entertained. The contractor and NKDA shall make every effort that such situation does not arise.

12) **Testing and Testing Equipment**: Testing of materials, to be used in work and the quality of finished work on quality control aspect, is to be undertaken by the contractor at own cost, with facilities provided at site and / or through approved (by NKDA) Test Houses / Laboratories. All materials and workmanship shall be in accordance with the specifications laid down in the contract and also as per P.W.D. and IS Codes. The Engineer-in-Charge reserves the right to test, examine and measure the material / workmanship direct at the place of manufacture, fabrication or at the site of works or any suitable place. The contractor shall provide such assistance, instrument machine, labour and materials as the Engineer-in-Charge may require for examining, measuring and testing the works and quality, weight or quantity of materials used and shall supply samples for testing as may be selected and required by the Engineer-in-Charge without any extra cost. Beside this, he/they will carry out tests from outside Laboratory as per instruction of Engineer-in-Charge. The cost of all such tests would be borne by the agency.

Should the Executive Engineer or his representative consider it necessary to satisfy himself / themselves as to quality of work, the contractor shall offer sample of work done as necessary, pull down reasonable part of the work required for inspection and testing. The contractor shall bear the cost of pulling down and shall make good the same at own cost and to the full satisfaction of E-I-C without any claim for payment

13) Security Deposit:

Retention money towards performance Security shall be deducted from the running account bill of the tenderer as per prevailing order. No interest will be paid on the money retained for Security Deposit. Notwithstanding anything as mentioned in clause 13 of WBF2912, the security deposit for the entire work (Including the original work and 05years operation and maintenance) i.e 10% of the total value of the work will be released in 05(five) after successful completion. Service level T& C applicable.

14) Date and Time Schedule:

Sl. No.	Particulars	Date & Time
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1	Date of uploading of N.I.E.Q. & other Documents (online) (Publishing Date)	01.06.2010
2	Documents download start date (Online)	01-06-2021 from 6:00P.M.
3	Documents download end date (Online)	25-06-2021 upto 6:00 P.M
4	Date of Pre-Bid meeting	17-06-2021 at 12:00PM
6	Bid submission start date (Online)	01-06-2021 from 6:00P.M.
7	Bid submission closing date (Online)	25-06-2021 at 6:00 P.M
8	Bid opening date for Technical Proposals (Online)	28-06-2021 at 11:00 A.M.
9	Last Date of uploading list for Technically Qualified Bidder(online)	Will be intimated in due course.
10	Date for opening of Financial Proposal (Online).	Will be intimated in due course.

15) Earnest Money:

- a) Earnest money of Rs.5,00,000=00 (Rupees Five lakh) only to submit in the form of ICICI Bank online/ RTGS/NEFT from scheduled Bank, in favor of "Newtown Kolkata Development Authority" payable at Kolkata balance amount covering 2% of the quoted amount to be submitted in bank draft / pay order at the time of making agreement by the successful tenderer.
- b) Earnest Money for the successful tenderer will be retained and converted as Initial Security deposit. The Balance security deposit @ 8% will be deducted from ongoing bills to cover 10% of the total value of work done.
- c) The security deposit for the original work (i.e. excluding 05years operation and maintenance) of the successful tenderer will be refunded after defect liability period as stipulated in relevant clause of the tender document.
- 16) The tenderers are bound by the terms & conditions of WBF 2911(ii) along with specification, notice for calling Tenders, Special terms & condition, Information to Bidders, Schedule of works etc, which forms a part and parcel of this contract.
- 17) Income Tax, GST & PF will be deducted as per Govt. orders issued from time to time and would be applicable on the date of making payment of the bills. Building & other construction workers cess @ 1.0% will be deducted from progressive bills in pursuance with G.O. no. 599A/4M 28 / 06 dated 27/09/2006.
- 18) The Bidder, at his own responsibility and risk is encouraged to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for the work as mentioned in the Notice Inviting Tender, before submitting offer with full satisfaction. The cost of visiting the site shall be at his own expenses.
- 19) The intending Bidders shall clearly understand that whatever may be the outcome of the present invitation of Bids, no cost of Bidding shall be reimbursable by the Department. New Town Kolkata Development Authority reserves the right to accept or reject any offer without assigning any reason whatsoever and is not liable for any reimbursement of any cost that might have been incurred by any Tenderer at any stage of Bidding.
- 20) Prospective applicants are advised to note carefully the eligibility criteria before tendering the bids.
- 21) Conditional / Incomplete tender will not be accepted under any circumstances.
- 22) The intending tenderers are required to quote the rate online.
- 23) Contractor shall have to comply with the provisions of (a) the contract labour (Regulation Abolition) Act. 1970 (b) Apprentice Act. 1961 and (c) minimum wages Act. 1948 of the notification thereof or any other laws relating thereto and the rules made and order issued there under from time to time.
- 24) During scrutiny, if it comes to the notice of the tender inviting authority that the credential or any other paper found incorrect / manufactured / fabricated, that bidder would not be

allowed to participate in the tender and that application will be rejected without any prejudice.

- 25) If there be any objection regarding prequalification of any Agency the same should be lodged online to Chief Engineer, New Town Kolkata Development Authority within 2 (two) days from the date of publication of list of qualified agencies and beyond the said time schedule no objection will be entertained.
- 26) Before issuance of WORK ORDER, the Tender Inviting Authority may verify the credential and other documents of the lowest tenderer in original, if found necessary. After verification if it is found that the documents submitted by the lowest tenderer is either manufactured or false in that case work order will not be issued in favour of the said Tenderer under any circumstances and his/their offer will be treated as cancelled.
- 27) If any discrepancy arises between two similar clauses on different notification, the clause superseding others will be solely as per the discretion of the Tender inviting authority.
- 28) The successful Tenderer whose tender is accepted shall make formal agreement in WBF 2911 (ii) along with bid documents in triplicate, within 7 (seven) days from the date of issue of work order by Executive Engineer, New Town Kolkata Development Authority on payment of usual charges which is non-refundable under any circumstances and submit the same duly signed by him/them to this office. If the contractor fails to perform the formalities within the specified period the Tender is liable to be cancelled and the Earnest Money will be forfeited as per relevant clauses under memorandum of WBF 2911(ii).

29) Qualification criteria:

The tender inviting and Accepting Authority will determine the eligibility of each bidder. The bidders shall have to meet all the minimum criteria as stipulated in relevant clauses of this NIeQ.

The eligibility of a bidder will be ascertained on the basis of the document(s) submitted in support of the minimum criteria. If any document submitted by a bidder is either manufactured or false, in such cases the eligibility of the bidder / tenderer will be rejected at any stage without any prejudice to take any penal action against him/them as may be deemed fit by the Tender Accepting Authority.

- 30) No. price preference and other concession will be allowed as per order no 8648 F(T) dated 12.10.2012.
- 31) Agencies are required to give a work programme preferably in the form of a bar-chart and to approve it by the EIC (Engineer–in-Charge) before commencement of work and if progress of work abruptly differs from the given work program, the undersigned may terminate the work order at any point of time.
- 32) Unless otherwise stipulated, all the works are to be done as per general conditions and general specifications of the latest edition of 'PWD (Electrical)/(W.B) Schedule
- 33) In case of any inadvertent typographical mistake in the specific price schedule of rates, the same will be treated to be so corrected as to confirm with the prevailing relevant schedule of rates and/or technically sanctioned estimate.
- 34) Intending tenderer should note that he will have to work simultaneously with other contractors already entrusted with other work or with contractors to be entrusted with other work in future in the same site. The contractor will have to work in close co-operation and harmony with all the contractors engaged in the project. Any claim for idle labour, for any reason whatsoever, will not be entertained under any circumstances.
- 35) NKDA will not be held responsible for making payment against any anticipated profit and/or compensation for any losses or price escalation whatsoever for the works as stated in the annexure of this NeIT. Rates should be quoted accordingly.

- 36) The address as furnished by the contractor shall be deemed as the postal address of this office. Any notice or instruction to be given to the contractor under the terms of contract shall be deemed to have been served if it has been delivered to his authorized agent (on the strength of authorization) or representative or sent by registered letter to his official address as furnished.
 - 37) Arbitration clause of WBF 2911(ii) stands deleted. Any dispute related to the contract will have to be settled in Calcutta High Court.
 - 38) Any Corrigendum, notification in connection to this NIeT will be published in the official website of New Town Kolkata Development Authority (www.nkdamar.org) as well as https://wbtenders.gov.in. The applicants are requested to please follow the websites for such notifications, corrigendum etc.

39) Scope of work:

- 1. Supply, Installation, Testing, Commissioning with Five years comprehensive maintenance (from the date of commissioning) of LED Lighting Application at Different Area of New Town. Side will be provided by EIC. If necessary, the bidder have to a side survey.
- 2. Testing as per technical specification for Luminaire shall be carried out during inspection at manufacturer NABL accredited Lab before dispatch of material from OEM'S works/ ware house by the contractor at own cost.
- 3. The bidder has to replace the existing conventional and non-conventional light fittings as instructed by EIC. Buy back allowed only for Conventional Lumineers.
- 4. Buy back of existing conventional fittings including dismantling and transportation.
 - a. Vendors are advised to survey the installation and make themselves aware of the existing street light system.
 - b. Existing Street light fittings are of 150 W to 400W conventional fittings (HPSV /MH).
 - c. Price for buy-back should be considered for the street only conventional light fittings.
 - d. Bidder should be agreeable to buy the fittings in existing condition; the authority will not be responsible for any rectification of the defective /damaged condition of existing fittings.
 - e. No storage space will be provided to the bidder and they are responsible for shift the dismantled material immediately from the site.
- 5. The total comprehensive warranty for these new LED lights for duration of 5 Years from the date of commissioning. Corresponding warranty certificate from OEMs must also be submitted. During this period, the bidder has to provide the maintenance, replacement of all defective LED luminaries, controller and other equipment's related to LED fittings of all types installed.
- 6. The bidder should have maintenance extra 5% fittings of total supply in his/her own stock. In case of any failure, they can replace the fittings within 1 days from the date of failure by the bidder own cost.
- 7. Bidder must submit installation report at the time of commissioning. Report have Lumineers technical certificate, OEM warranty certificated for luminaires with serial No. and installation location.
- 8. The prospective bidders in their engagement experienced Electrical Supervisor in the project duration.

40) **Payment Mode:**

Sl. No.	Description of Work			N	Mode of pay	ment
1	Supply, Delivery, Commissioning of LE					oted amount Delivery,
	of New Town. As Specifications. Item S	specified in	Technical		ion,	Testing,
				11) 20%	of the que	oted amount

		after successful commissioning of the street light as a whole.
2	Fixing of the above Specified LED light fitting on the Arm bracket and making connection by 3x 1.5 sqmm PVC insulated copper cable for phase neutral & earth from loop box to fitting end with necessary accessories for proper functioning.	after Supply, Delivery, Installation, Testing,

41) The tender document consists of:

- i) Technical Specifications.
- ii) WBF2911.

Executive New Town Kolkata Development Authority

Date: 01-06-2019

5406/1(8)/NKDA/EE-E/2021 Memo No.

Copy forwarded for information to:-

- i) The Chief Executive Officer, New Town Kolkata Development Authority.
 ii) The Chief Executive Officer, New Town Kolkata Green Smart City Corporation Ltd.
- iii) The Chief Engineer, New Town Kolkata Development Authority.
- iv) The Finance Officer, New Town Kolkata Development Authority.
- v) The Assistant Engineer (E), New Town Kolkata Development Authority.
- vi) P.A to the Chairman, New Town Kolkata Development Authority.
- vii) Office copy of NKDA.

Official Website of New Town Kolkata Development Authority (www.nkdamar.org)

> Executive Engineer (E) New Town Kolkata Development Authority

Technical Specifications:

A. Street Light Specification:

	A. Street Light Specificatio	11.
1.1	Electrical Specifications (LED Driver)	125-150 W LED streetlight
	Input Voltage	AC 140 to 270 V AC.
	Input Frequency	50Hz
	Power Factor	≥ 0.95
	Driver	Dimmable-Coded Mains
	Drive Current	≤750mA
	Driver Efficiency	≥90%
	IEC Compliance	Confirming to IEC-61347-1 & IEC 61347-2-13
		IEC 61547, 610-3-2, CISPR-15/ IEC: 60598. EN EC & CE approved.
	Ingress protection	driver itself should be IP66
.2	Total Harmonic distortion	
	THD(I)	≤10%
	Humidity	10% to 90% RH
.3	LED Luminaire Specifications:	
	Life Expectancy	Equal or more than 50000 burning hrs. With @L70.
	Colour Temp	5700K ± 300K
	Colour Rendering Index	>=70
	Lumen/watt	≥120lum/W
	Make of LED Source	High Power LED CREE/SEOUL/LUMILEDS/Osram/Nischia
	Surge Protection	5KV within the driver & 10KV external/ internal to fixture.
	Lamp Housing	The body shall be robust, corrosion resistant superior in finish & without any cracks or through holes, made in a single piece by high pressure die cast LM6 aluminium alloy. The luminaries shall be monolithic construction totally enclosed dust tight & water proof. Degree of protection shall be IP66 as defined in Appendix A of IS10322 (Part-I 1982) with latest amendments.
	Heat Sink/Dissipation	Integrated with in luminaire & The dimensions of luminaries shall be adequate to permit sufficient heat dissipation through the body itself, so as to prevent abnormal temperature rise inside the lantern & consequential damage to cover & gasket materials, LEDs lenses & Electronic Driver.
	Driver	Drivers should be potted & aluminium body for improve durability, constant current drivers with separate compartment preferable top maintainable for ease of maintenance, also driver compartment should be IP66. Driver should also have Double phase protection, over load, open circuit and short circuit protection. driver itself should be IP66
	Covers ical Specifications of NIeQ-01/EE-E/N	Covers should be used to ensure proper IP66 degree of protection. It shall not get discoloured shall not suffer

		degradation due to heat and ageing.
	Gasket	Gasket: A extruded silicon/EPDM loop gasket shall be provided in the lantern body to ensure a weather proof seal between the toughened glass and the metal housing to exclude the entry of dust, water, insects, etc. When the luminaries are closed, should conform to min IP65 Class.
	Impact resistance	≥ IK08
	Junction Temp	<105
	Luminaire system efficiency	≥120 lumens/watt(≥16500lumens delivered) (supported by LM79 from NABL accredited lab)
	Ingress Protection Level	IP66
	Manufactures Logo	Manufactures Word Mark/Name Engraved/ Embossing on die cast housing to allow traceability/authenticity till life of fixture (Sticker/Printing not allowed).
	Secondary optics	Secondary optics to be used for superior spread and throw.
	Warranty	5Years.
1.4	Make	Phelips/Crompton/Havells/Bajaj/L&T/ Jaquar

B. Street Light Specification:

1.1	Electrical Specifications (LED	170-200 W LED streetlight
	Driver)	
	Input Voltage	AC 140 to 270 V AC.
	Input Frequency	50Hz
	Power Factor	≥ 0.95
	Driver	Dimmable-Coded Mains
	Drive Current	≤750mA
	Driver Efficiency	≥90%
	IEC Compliance	Confirming to IEC-61347-1 & IEC 61347-2-13
		IEC 61547, 610-3-2, CISPR-15/ IEC: 60598.
		EN EC & CE approved.
	Ingress protection	driver itself should be minIP65
1.2	Total Harmonic distortion	
	THD(I)	≤10%
	Humidity	10% to 90% RH
1.3	LED Luminaire Specifications:	
	Life Expectancy	Equal or more than 50000 burning hrs. With @L70.
	Colour Temp	5700K ± 300K
	Colour Rendering Index	>=70
	Lumen/watt	≥120lum/W
	Make of LED Source	High Power LED CREE/SEOUL/LUMILEDS/Osram/Nischia
	Surge Protection	5KV within the driver & 10KV external/ internal to fixture.

	Lamp Housing	The body shall be robust, corrosion resistant superior in finish & without any cracks or through holes, made in a single piece by high pressure die cast LM6 aluminium alloy. The luminaries shall be monolithic construction totally enclosed dust tight & water proof. Degree of protection shall be IP66 as defined in Appendix A of IS10322 (Part-I 1982) with latest amendments.
	Heat Sink/Dissipation	Integrated with in luminaire & The dimensions of luminaries shall be adequate to permit sufficient heat dissipation through the body itself, so as to prevent abnormal temperature rise inside the lantern & consequential damage to cover & gasket materials, LEDs, lenses & Electronic Driver.
	Driver	Drivers should be potted & aluminium body for improved durability, constant current drivers with separate compartment, preferable top maintainable for ease of maintenance, also driver compartment should be IP66. Driver should also have Double phase protection, over load, open circuit and short circuit protection. driver itself should be IP66
	Covers	Covers should be used to ensure proper IP66 degree of protection. It shall not get discoloured shall not suffer degradation due to heat and ageing.
	Gasket	Gasket: A extruded silicon/EPDM loop gasket shall be provided in the lantern body to ensure a weather proof seal between the toughened glass and the metal housing to exclude the entry of dust, water, insects, etc. When the luminaries are closed, should conform to MIN IP65 Class.
	Impact resistance	≥ IK08
	Junction Temp	<105
	Luminaire system efficiency	≥120 lumens/watt (≥22500lumens delivered) (supported by LM79 from NABL accredited lab)
	Ingress Protection Level	IP66
	Manufactures Logo	Manufactures Word Mark/Name Engraved/ Embossing on die cast housing to allow traceability/authenticity till life of fixture (Sticker/Printing not allowed).
	Secondary optics	Secondary optics to be used for superior spread and throw.
	Warranty	5Years.
1.4	Make	Phlips/Crompton/Havells/Bajaj/L&T/ Jaquar

Certificates required along with the tender for Specification A & B:

- 1. ROHS certification for Source (LED).
- 2. Photo biological test report.
- 3. LED Source manufacturer's authorisation certificate.
- 4. LM79 report from own NABL approved lab along with the tender.
- 5. LM80 report from the source manufacturer with OEM's watermark across the page.
- 6. Type test report as per IS 10322/60598.
- 7. ISO certifications for manufacturing facility.
- 8. Manufacturer should have their NABL accredited lab for photometric testing.
- 9. Technical data sheet for the above product.
- 10. BIS certification as for electrical safety for drivers under IS No15885.
- 11. BIS for the product and driver.

Note: Testing as per IEC 60598 for Luminaire shall be carried out during inspection at manufacturer NABL accredited Lab before despatch of material from OEM'S works/ ware house.

Proper documents certifying all the above-mentioned features must be submitted.

Executive Engineer (E)
New Town Kolkata Development Authority