

SOUTH DELHI MUNICIPAL CORPORATION

ENGINEERING DEPARTMENT

"PRESS NOTICE" - Expression of Interest

NIT No.: 34/EE(E) IV/2013-14

Dated: 30-1-14

The Executive Engineer (E)-IV, SDMC, Mpl. Primary School, Police Colony, Hauzkhass, New Delhi-110016 on behalf of the Commissioner, South Delhi Mpl. Corporation invites applications from well established, reputed specialized agencies for the work "Providing Street lighting Monitoring and Control System for South DMC Roads".

Brief Description and requirement of installing street light monitoring & control system:-

South Delhi Municipal Corporation (SDMC) manages street/road lighting services in Central Zone, South Zone, Najafgarh Zone & West Zone on the inner lanes, by lanes and roads less than 60 feet ROW in Delhi. The mechanism to monitor, control and metering the existing street lights on line is required to be carried out through latest technology. Expression of Interest is, therefore, invited from reputed organizations/institutes/firms dealing with activities related to field of implementing the monitoring control and metering of street lights through SCADA (Supervisory Control And Data Acquisition) or any other system available.

1. The detailed requirements, scope and procedure for tenders to be submitted by the firms/companies/agencies alongwith their EOI application is available on our website www.mcdetenders.com and www.mcdonline.gov.in.
2. The documents to be submitted with EOI application:-
 - (a) Copy (Soft/Hard) of presentation to be made by firm/agency/company.
 - (b) Brief details of company, its functioning and area of expertise in less than 300 words.
 - (c) Experience certificate/proof of similar work executed in Govt./Private sector-specify.
 - (d) Solvency of company.
 - (e) Turnover.
 - (f) Anti collusive certificate.
 - (g) Demand Draft of Rs. 10,000/- in favour of Commissioner, South Delhi Municipal Corporation on account of tender fees.
3. Application for Expression of Interest supported by certificates/documents /demand draft should be submitted in sealed envelope duly superscripted with the name of work and due date of opening. The EOI will be received up to 03.00 PM on 24-02-2014 and will be opened by the E.E.(Elect.)-IV in the office of Superintending Engineer or his authorized representative in his office at 10th floor, Dr.SPM Civic Centre, JLN Marg, Delhi-110006 on the same day at 03.30 PM.

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JAGDISH BABOO
Superintending Engineer (Elect)
(South Delhi Municipal Corporation)

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Introduction

Section 42 of the Delhi Municipal Act states that public lighting is one of the responsibilities of the MCD and historically, the MCD had entrusted this to the erstwhile Delhi Electric Supply Undertaking (DESU), which functioned as a wing of the MCD. The DESU was discharging the function of erection, operation and maintenance of the public lighting falling in the areas, which were under the jurisdiction of the MCD. After DESU was wound up and the Delhi Vidyut Board (DVB) came into being in 1997, the new organization, i.e. the DVB took over the work of public lighting on behalf of the MCD. While the MCD was to pay the DESU/DVB the maintenance and energy consumption charges for the street lighting, it was the latter's duty to levy and collect the Electricity Tax on behalf of the former, i.e. the MCD. On July 1st, 2002, the Delhi Vidyut Board (DVB) was unbundled and the responsibility of maintenance of street light was transferred to three DISCOM's i.e. BSES Rajdhani Power Limited (BRPL), BSES Yamuna Power Limited (BYPL) and North Delhi Power Limited (NDPL) in their respective jurisdictions whereas the responsibility of maintenance of Semi High Mast Light (SHML) remains with the MCD.

After trifurcation, Municipal Corporation of Delhi has been divided into three individual local municipal bodies i.e. North Delhi Municipal Corporation, South Delhi Municipal Corporation and East Delhi Municipal Corporation w.e.f April, 2012.

The following zones falls under the jurisdiction of South Delhi Municipal Corporation:-

1. South Zone.
2. Central Zone.
3. West Zone.
4. Najafgarh Zone.


Delhi Electricity Regulatory Commission (DERC), a statutory body is entrusted with fixation of electricity tariff for the entire Delhi.

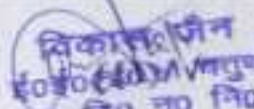
The zone wise details of street lights are as under:-

S.No.	Name of Zone.	Total no. of street light.	SHML point.	Fancy lights in parks.
1.	South Zone	92650	722	2291
2.	Central Zone	48229	604	2950
3.	West Zone	48690	930	5437
4.	Najafgarh Zone	52302	824	916
	Total	241871	3080	11594

The South Delhi Municipal Corporation is maintaining the street lights installed on the Roads, Street lanes & in Unauthorize colonies. After notification of Delhi Govt.(GNCTD), the street lights installed on the roads of 60 ft and above has been transferred to PWD in the month April 2012. Now the South DMC is only maintaining the street lights installed below the roads of 60 ft in street lanes & Unauthorize colonies.

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Superintending Engineer (Elec)
(South Delhi Municipal Corporation)


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Salient Features

The DISCOMS (BRPL, BYPL & TPDDL) are maintaining all the street light points falling on the roads below 60 ft and Street, lanes & unauthorized colonies also. For which the department make the payment to the DISCOMS as per the directions/guidelines of DERC. A committee of the following members was constituted by the corporation for payment procedure to DISCOMS. Before making any type of payment, the department arranges a monthly survey with the following members to ascertain the functioning/non-functioning of the street light.

1. Area Councilor of the ward.
2. Concerned AE/JE of the ward.
3. Representative of the DISCOMS.

The type of fitting are as under:-

1. HPSV-70 watt/150 watt/250 watt/400 watt.
2. Tube light fitting-1 x 40 watt/2 x 40 watt.

1. DISCOMS are maintaining all types of street lights and high mast light.
2. The Semi high mast lights/Park lights/Fancy lights are being maintained by the department itself, only energy charges are being paid to the DISCOMS. The payment procedure for street light is as under:-

(Total Load (in KW) x 12 Hrs x No. of Day in a Month)

The procedure of payment is as follows if the functionality %age of the total no. of street lights i.e 147000 found 95% and tariff rate Rs @5.60 per unit basis.

	As per DERC Tariff order dtd 01-09-2011	
%age Verified	95%	
Total Points (TPDDL, BYPL & BRPL)	147000	
Rate per unit	5.60	
Units	7245060	
Electricity Charges	@5.60 per unit	3,85,43,719/-
Testing Charges	@0.5% on Electricity Charges	1,92,719
Mtc. Charges	@77/- per point	1,13,19,000/-
Pole Painting Charges	@7/- per point	10,29,000/-
Material Cost	@19/- per point	27,93,000/-
Fuel price Adjustment(FPA)/Power Purchase Cost Adjustment(PPCA)	NIL	ZERO
Incentive/Disincentive		5,65,950/-
Monthly Amount		5,44,43,3888/-
Yearly Amount.		65,33,20,656/-

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JAGDISH LAL BODO
Superintending Engineer (Elec)
(South Delhi Municipal Corporation)


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OBJECTIVES

(I) Streamline the street light system by utilizing the New & better technologies in public interest

1. It is necessary to establish a Real time information system of functioning of the street light in same day or next day. Such systems are now available and can be easily installed.
2. These systems can be mounted on each feeder pillar to control street lights according to measured lightness and internal clock & calendar. Street lights can also be controlled manually from web interface or with GSM phone.
3. In addition it can control street light dimming by dropping the supplied voltage e.g. from 230VAC to 200VAC during off-peak traffic hours, e.g. say from 1 AM to 5 AM preferably, thus saving energy cost.
4. The Control unit collects and stores measurement and status information from the voltage- and current levels and light switching times etc. into its memory. These files can be sent to Web server using GPRS or SMS messages. This would provide near-real time information to the Department to check and control the performance of the street lights.
5. Department will opt the New technologies on the basis of pick and choose policy so that the chosen Firms/Companies could be found suitable for Corporation to stream line the street lighting system.
6. The interested as well as invited Firms/Companies will give their full demonstration as well as presentation physically and will also provide the precise detail of their new era technologies where systems have been provided by the firm. The department will make its own efforts/ arrangement for visiting the sites of the firms/Companies interested as well.
7. The firm should submit following documents with EOI application:-
 - (a) Copy (Soft/Hard) of presentation to be made by firm/agency/company.
 - (b) Brief details of company, its functioning and area of expertise in less than 300 words.
 - (c) Experience certificate/proof of similar work executed in Govt./Private sector-specify including scope of work, Financial Amount
 - (d) Solvency of company.
 - (e) Turnover.
 - (f) Anti collusive certificate.
 - (g) Demand Draft of Rs. 10,000/- in favour of Commissioner, South Delhi Municipal Corporation on account of tender fees.
8. **Eligibility/Qualifying Criteria:-**
 - (1) The firm/agency/company should have :-
 - (a) Annual average turnover of Rs. 2 Crores.
 - (b) Solvency of Rs. 2.6 Crores.
 - (c) Experience of executing similar works completed
 - (i) 2.6 Crores or more - 3 works.
 - (ii) 3.9 Crores or more - 2 works.
 - (iii) 5.2 Crores or more - 1 works.

The cut off date is last date of the preceding month in which BOI has been invited.

Evaluation Criteria:-

S.No.	Attributes	Evaluation
(a)	Average annual Turnover (10 Marks)	(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more In between (i) & (ii) - pro-rata basis
(b)	Solvency Certificate (10 Marks)	(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more In between (i) & (ii) - pro-rata basis
(c)	Experience in similar nature of work (20 Marks)	(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more In between (i) & (ii) - pro-rata basis
(d)	Presentation of Technology/Detail (60 Marks)	To be awarded by panel of member of EOI evaluation committee.
	(i) Technology (15 Marks)	
	(ii) Content (15 Marks)	
	(iii) Cost saving/Optimised (15 Marks)	
	Financial aspect (iv) presentation clarity in (15 Marks)	
	terms of execution	

Minimum overall qualifying marks = 70

(With individual minimum qualifying criteria for all i.e (a),(b),(c),(d) = 50% of marks allocated to that criteria)

9. The bids would be in three stages:

- The Technical Evaluation stage, wherein the firms would be selected based on their technical inputs, experience profile and financial strength.
- The firms short-listed during the Technical Evaluation stage would be required to demonstrate their technology under local conditions.
- The RFP should be issued to only those firms that have successfully demonstrated their systems would be opened for evaluation and final selection of successful bidder.

(II) Overcome the Difficulties observed for making payments

1. As per the DERC Order dated 22.09.2009, the performance of the street light systems would be the responsibility of the DISCOM. A schedule of rates was passed by DERC vide this order as well as performance parameters for the street lighting system that would govern the amount to be paid to the DISCOM. This includes a set of incentive and penalties as given below:
 - a. Incentive: A graded incentive scheme with a minimum of 90% performance level to be achieved.
 - b. Disincentive: For performance level below 90%, a graded disincentive scheme is applicable.
 - c. Monitoring: Monthly survey by a constituted committee.
2. The Department processes the payment on the basis of the survey carried out in each month. There is no test check on the street light points in the remaining days.
3. It has been observed that the DISCOMS never make their own arrangements for maintenance of street lights routine wise
4. A number of times it has also been noticed that DISCOMS put their all lights functional only at the time of monthly inspections just for their pecuniary gain and achieving the maximum payment against street light account.
5. The switching on/off system of street lights is done manually due to which DISCOMS is unable to maintain the right time of switching on/off, leading to excess energy charges.
6. There is no any mechanism with DISCOMS to provide real time information of non-functional/functional street light points.
7. In the absence of any metered data, the Department has no way of verifying and controlling the expenses on the street lights.
8. Also, it is necessary to establish a baseline for energy conservation programs that could minimize the financial outlay for the street lights. As it is not in the DISCOM's interest to conserve energy, there is no incentive for them to do so.

Basic Requirements of the System

- The system to be installed on zonal bases.
- The monitoring and control system should provide automatic control and remote operation from Central (Zonal) Control station.
- System should provide MIS reports and information about efficiency such as energy consumption, ON percentage, Functioning percentage and GIS mapping - zone wise; ward wise; area/locality wise as well as street wise.

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