

**DELHI DEVELOPMENT AUTHORITY,
ELECTRICAL DIVISION NO. 5
CENTRAL NURSERY SECTOR-5,
DWARKA PHASE-I, N. DELHI
(IN LIEU OF PWD-6)**

NIT NO: 36 /EE/E.L.D.5/DDA/08-09 (FOR GENERAL WORKS)

Sealed item rate tender are invited for the following work by the Ex. Engineer (E), Elect.Divin.No.5/DDA, Central Nursery, Sector-5, Dwarka Ph.I, N. Delhi up to 3.00 PM on 19-9-08 on behalf of DDA from the approved contractors of appropriate class of DDA, CPWD, Railways, MES and P&T which shall be opened on the same day at 3.30 PM at Ground Floor, Vikas Minar, DDA Office I.P.Estate New Delhi in the presence of intending purchaser or their authorized representative.

The enlistment of the contractors should be valid on the last date of sale of tenders.

In case only the last date of sale of tenders is extended, the enlistment of contractor should be valid on the original date of sale of tenders.


In case both the last date of receipt of application and sale of tenders are extended, the enlistment of contractor should be valid on either on the two date i.e. original date of sale of tender or on the extended date of sale of tenders.

The tender documents can be had on any working day from the office of CAU/Dwarka Zone/ Sale Counter Ground Floor, Vikas Minar between 11.00 AM to 3.00 PM on payment of cost of tender (non-refundable) mentioned against the work on production of valid Enlistment Registration Certificate and valid Registration with works contract cell of sales tax Dept.of GNCTD and tax clearance certificate issued by the works contract cell in Form-XI. Sale of tender forms will be stopped 4 days (including the date of opening) before the date fixed for the opening of tender documents.

The manner of submission of tender, opening of the same and entry of contractors, their authorized representative to the place of opening shall be as provided in clause-3a(b) and (c) of PWD-6 forming part of the tender documents.

EARNEST MONEY: The earnest money should be Deposited alongwith tender documents in cash up to **Rs.10,000/-** only Receipts Treasury Challan/ C.D.R./ F.D.R./ D.D. of Scheduled Bank issued in favour of Sr.A.O./CAU/DWK Zone New Delhi. It should, however, be ensured that FDR / Pay Order is valid for a period of Six Months or more after last date of receipt of tender. The tender of the agency who does not enclose the earnest money in the prescribed manner shall be summarily rejected.

S.No	Name of work	Estt. Cost E. Money T. Cost	Last dt.of sale Dt.of opening	Time allowed.
1.	Maintenance of various colonies under Dwarka Zone Nazul A/c II. SH: Operation and Maintenance of Street Lighting on 30 Mtr. wide Roads and Sectorial Roads.	Rs.26,71,253 Rs. 53,425 Rs. 500.00	15-9-08 19-9-08	12 Months.


Executive Engineer(E)
Elect. Divin. No.5/DDA

SCHEDULE OF WORK

Name of work: Maintenance of various colonies under Dwarka Zone Nazul A/c-II
(SH: Operation & Maintenance of Street Lighting on 30 mtr.Wide Roads and Sectorial Roads)

S.No.	DESCRIPTION OF ITEM	QTY	RATE	UNIT	AMOUNT
1)	Maintenance of Street Lighting as per inventory and terms & conditions attached – 1 Job.	12 Months		Month	
2)	Supplying and replacement of the following items.				
a)	250 watt HPSV Lamp SON-T Plus (Tubular)	250 Nos.		Each	
b)	150 watt HPSV Lamp SON-T Plus (Tubular)	15 Nos.		Each	
c)	70 watt HPSV Lamp SON-T Plus (Tubular)	10 Nos.		Each	
d)	250 watt Copper Wound Choke/Ballast	70 Nos.		Each	
e)	150 watt Copper Wound Choke/Ballast	20 Nos.		Each	
f)	70 watt Copper Wound Choke / Ballast	5 Nos.		Each	
g)	70 watt / 150 watt / 250 watt Electronic Ignitor	150 Nos.		Each	

h)	Electronic Timer ET-100	8 Nos.	Each
i)	Capacitor 15 MFD	5 Nos.	Each
j)	Capacitor 20 MFD	5 Nos.	Each
k)	Capacitor 33 MFD	35 Nos.	Each
l)	Contactor 110 Amps, 415 V AC	6 Nos.	Each
m)	Contactor Coil Type MN 110	12 Nos.	Each
n)	125 Amps 415 volts TP&N Switch Disconnecter Fuse Unit	6 Nos.	Each
3)	Painting & Numbering of steel tubular poles i/c its over hang connector box etc. with double coat of aluminium paint of approved shade after cleaning the surface etc.as required.		
a)	13 mtr. Height	567 Nos.	Each
b)	9 mtr. Height	89 Nos.	Each
4)	Spray Painting and numbering of feeder pillar with enamel paint of approved shade after cleaning the surface etc. as reqd.	12 Nos.	Each

5)	Supplying of following sizes of XLPE armoured aluminium power cable 1.1 KV grade.		
a)	2 core x 25 sq.mm.	4000 mtr.	Mtr.
b)	3.5 core x 95 sq.mm	100 mtr.	Mtr.
6)	Laying of one number PVC insulated and PVC sheathed / XLPE armoured power cable of 1.1 KV grade in the existing RCC / Hume / Stone Ware/ Metal pipe / DWC pipe as reqd.		
a)	2 core x 25 sq.mm.	4000 mtr.	Mtr.
b)	3.5 core x 95 sq.mm.	50 mtr.	Mtr.
7)	Laying of one number PVC insulated PVC sheathed / XLPE armoured cable 1.1 KV grade of size exceeding 25 sq.mm but not exceeding 120 sq.mm direct in ground i/c excavation, sand cushioning, protective covering and refilling the trench etc. as reqd.	50 mtr.	Mtr.

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|----|--|---------|------|
| 8) | Supplying and making straight through joint with cast resin compound I/C ferrules and other jointing material for following sizes of P.V.C. insulated and P.V.C. Sheathed / XLPE armoured aluminium conductor power cable of 1.1 KV grade as reqd. | | |
| a) | 2 core x 25 sq.mm. | 50 Nos. | Each |
| b) | 3.5 core x 95 sq.mm. | 7 Nos. | Each |
| 9) | Supplying and replacement of damaged street light fitting suitable for operation on 200 volts to 240 volts, 50 Hz AC supply complete with control gear, reflector, ignitor protective flat glass cover along with HPSV Tubular lamp SON-T Plus I/C earthing the body, connection and testing etc. as reqd. | | |
| a) | 70 watt | 5 Nos. | Each |
| b) | 150 watt | 5 Nos. | Each |
| c) | 250 watt | 30 Nos. | Each |

10) Supplying and replacement of existing damaged M.S. Swaged Tubular Pole of 13 mtr. Height with M.S. base plate concealed connector box with cover and locking arrangement inside the pole, bracket arms suitable for suspending and fixing luminaries on sides I/C dismantling of existing pole and foundation, recasting of foundation, wiring of pole, cable connection, earth connection as per drawing and specification etc. as reqd.

a) Double Overhang

5 Nos.

Each

b) Triple Overhang

2 Nos.

Each

TERMS & CONDITIONS

1. The work comprises of maintenance of street lighting as per the inventory attached.
2. Scope of work is as under:
 - a) To keep all street lighting points & all allied installations in working order.
 - b) To keep the street lighting functional during the timings fixed by the Engineer-in-charge.
 - c) Street lighting should be switched ON/OFF at appropriate time fixed by the department.
3. 90% of the street lighting should remain in working order & functional through out the period of contract failing which proportionate recovery shall be made from the contractor's bill.
4. No street lighting points should remain out of order for more than 3 days. Beyond 3 days, a recovery of Rs.50/- per point, per day, shall be made from the contractor's bill.
5. For laying of cable in pacca portion & removing of existing damaged / defective cable, payment will be made as per item No. 6 & 7 of schedule of work and no extra payment shall be made on this account.
6. Proper handing / taking over of all the E&M installations shall be carried out by JE(E) / AE(E) In-charge of the work and the contractor in writing immediately after award of work and before start of work. The same shall be handed over to the department in proper working condition after expiry of the contract. In case of any theft / pilferage during the contract period, the same shall be borne by the contractor within the quoted rates.
7. The contractor shall depute the following staff under the contract:

- a) Wireman Grade – I 3 Nos. (from 2.00 pm to 10.00 pm)
- b) Khallasi 6 Nos. (from 2.00 pm to 10.00 pm)
- c) Security Guards - 4 Nos.

8. The duty timings of the staff can be changed as and when required by the Engineer-in-charge.
9. The contractor shall deploy trained & competent staff to the satisfaction of the Engineer-in-charge.
10. The contractor shall supply the list of staff alongwith details i.e. Name, Father's Name, Date of Birth, Experience Certificate to be engaged on the installation within 7 days of award of work. Engineer-in-charge shall have the right to reject any staff deployed by the contractor.
11. The staff deployed by the contractor shall wear proper uniform and badges displaying their name and designation.
12. The contractor shall deploy staff throughout the period of contract i/c Saturdays, Sundays, Gazetted holidays and National holidays and shall maintain attendance register which shall be kept at the office of J.E.(E) concerned.
13. The contractor shall submit the log sheet as per the performa enclosed regarding the status of street lighting points and other allied installations of the preceding day, daily to the Engineer-in-charge in the division office, duly signed by him or his authorized representative whose particulars shall be furnished by the successful tenderer within 7 days after award of work.
14. If any staff deployed by the contractor is found absent on a particular time and date, an amount equal to minimum wages fixed by Delhi Administration from time to time shall be recovered from the contractor's bill.
15. In case of any disobedience or misbehaviour by the operational staff of

the contractor, the Engineer-in-Charge may ask the contractor to dispense with the services of such staff with immediate effect. The contractor shall provide suitable substitute simultaneously.

16. The contractor shall take all safety measures at site during maintenance of the installations.
17. Any injury / mishap to the maintenance staff during duty hours will solely be the liability of the contractor.
18. The contractor shall maintain the street lighting luminaries with wheel ladder / motorized ladder only.
19. Co-ordination and follow up action with Electric Supply Agency shall be done by the contractor in case of failure/fault in supply.
20. The contractor shall intimate the Engineer-in-charge about the major breakdown, or failure of electric supply immediately.
21. The following minor maintenance I/C preventive maintenance shall be carried out by the contractor within the quoted rates. The details of work carried out shall be recorded in the register.
 - a) Supplying & replacement of kit kats, connectors and MCB's as & when required.
 - b) Supplying & replacement of thimbles & ferrules as & when required.
 - c) Supplying & replacement of copper wire of size 2.5 sq. mm as and when required.
 - d) Supplying & replacement of HRC fuses as & when required.
22. All electric connections shall be checked atleast once in a month & set right, if required.
23. Painting of poles shall be done by using brush or by spray painting.

24. The contractor has to return the dismantled material to the department after replacing the defective items at site for which separate payments are being made by the department.
25. In case any damages / loss is done to the installations during the contract period, the contractor shall have to make good the damages / loss at his own cost except the damages to the installations by accident. In case the contractor fails to rectify the damages/loss within reasonable time, the same shall be got rectified / replaced by the department at the risk and cost of the contractor.
26. If at any stage, the timer switch provided in the feeder pillar does not function, the contractor shall make immediate arrangement for ON/OFF operation manually till the timer switch is got repaired/replaced. Nothing extra shall be paid on this account.
27. Items at Sl. No. 2,5,6,7, 9 & 10 shall be executed as & when required and these shall be executed in the presence of authorized representative of the Engineer-in-charge.
28. The following makes of the materials are acceptable:
- | | |
|-------------------------|---|
| a) HPSV Lamp | Phillips / Osram |
| b) Ballast | As per fitment of manufacturer of existing luminaire. |
| c) Ignitor | As per fitment of manufacturer of existing luminaire. |
| d) MCBs | MDS / Standard / Action / L&T / Indokopp |
| e) Copper wire | National / Ecko / Havells / Skytone |
| f) Paint | |
| (i) Enamel / Aluminium | Berger / Nerolac / Asian / Dulux |
| (ii) Poly Utherene | MRF |
| g) Time Switch | As per existing make |
| h) Contactors | As per existing make |
| i) Contactor Coil | As per existing make |
| j) TP&N SDFU | As per existing make |
| k) Street Light Fitting | As per existing make |
| l) Capacitor | As per existing make |

m) XLPE armoured cable

Aisan Cable/Unistar/Ecko/Nicco/Skytone

29. The contractor shall also be responsible for removal of unauthorized hoardings, banners, if any, on the poles during the contract period for which the Engineer-in-charge / Authorized representative shall render their assistance, if required.
30. Testing of earth continuity and earth electrodes shall be carried out once in a year by the contractor in the presence of authorized representative of the Engineer-in-charge and test results shall be submitted in the office of Engineer-in-Charge.
31. The rates quoted by the contractor shall be inclusive of all taxes, duties and Govt. levies etc.
32. The Engineer-in-charge, if so desire, may extend the contract upto 2 months or terminate the contract at any time after giving 15 days notice for which no compensation shall be paid.
33. Steel tubular pole shall as per IS-2713 Part I & II and as per drawing enclosed.

INVENTORY

Name of Work : Maintenance of various colonies under Dwarka Zone Nazul A/c – II
 (SH – Operation & Maintenance of Street Lighting on 30mtr Wide Roads and Sectorial Roads)

SNo	Location	No. of Poles (13mtr Height)			No. of Poles (9mtr Height)			No. of Fittings			Feeder Pillars
		Double Over Hang	Triple Over Hang	Single Over Hang	Single Over Hang	Double Over Hang	Triple Over Hang	70 Watt	150 Watt	250 Watt	
1	Sector – 4	23	2	---	---	---	---	---	---	52	1
2	Sector – 5	21	2	---	---	---	---	---	---	48	--
3	Sector – 6	38	10	---	---	---	---	---	---	106	1
4	Sector – 7	28	7	---	---	---	---	---	---	77	--
5	Sector – 8	20	6	---	---	---	---	---	---	58	1
6	Sector – 9	20	2	---	---	---	---	---	---	46	<--
7	Sector – 10	42	8	---	---	---	---	---	---	108	1
8	Sector – 11	36	6	---	---	---	---	---	---	90	2
9	Sector – 12	43	12	---	---	---	---	---	---	122	1
10	Sector – 18	21	2	---	---	---	---	---	---	48	--
11	Sector – 19	68	12	---	---	---	---	---	---	172	2
12	Sector – 20	46	4	---	---	---	---	---	---	104	1
13	Sector – 22	34	6	---	---	---	---	---	---	86	1
14	Sector – 23	34	5	---	---	---	---	---	---	83	1
15	Metro Station 5 th Sector – 10	2	Nil	7	5	9	3		32	11	1
16	Sector – 14 Sectorial Roads	---	---	---	72	---	---	24	48	---	--
	TOTAL	476	84	7	77	9	3	24	80	1211	13

PERFORMA OF LOG SHEET

NAME OF WORK:

S.NO	DETAILS OF STREET LIGHTING POINTS	NO. OF POINTS FUNCTIONAL	NO. OF POINTS NOT FUNCTIONAL	LOCATION/DETAILS OF NON FUNCTIONAL POINTS.
1.	i).....watts ii).....watts iii).....watts			