

**No: 4- IWAI/SUR/Tender/ DGPS/08-09**

**Dated: .03.2009**

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***Sub: Tender for Supply and installation of the electrical fittings including wiring etc. at the DGPS site in Badi Khanjarpur, Bhagalpur (Bihar)***

Sir,

Please refer to your request seeking the tender form for submitting your offer on the subject.

Accordingly, find enclosed herewith the tender document consisting of the followings:

- |                         |                  |
|-------------------------|------------------|
| 1. NIT                  | 1 pages          |
| 2. Terms and Conditions | 1 pages          |
| 3. Quotation Schedule   | 6 pages (3 Nos). |

Accordingly, the filled proforma and schedule (Rate and Amount to be filled and amount should be in words also) duly signed in all the pages along with EMD submitted to this office as per the instructions mentioned therein.

**Yours faithfully,**

**(N Sivaraman)  
Director**

Encl: As above.

## **NOTICE INVITING QUOTATION**

**No:- 4- IWAI/SUR/Tender/ DGPS/08-09**

Sealed quotation are invited from experienced Electrical Contractors for Supply and installation of the electrical fittings including wiring etc. at the DGPS site in Badi Khanjarpur, Bhagalpur (Bihar). The quotation shall be submitted in two envelope system i.e. **Envelope -1** shall have the technical details of the firm including work experience & signed terms & condition issued from this office, **Envelope -2** shall be unconditional rate quotation in the given format. The Envelope -2 shall be opened only of the technically qualified bidders. The tender form may be collected from IWAI office at Patna or may be down loaded from the site [www: iwai.nic.in](http://www.iwai.nic.in). The date of issue of tender will be from 24.03.09 onward and date of opening is 31.03.2009.

The cost wise breakup of the work will be as under:

1.	Schedule – Staff	Rs. 75,720/=
2.	Schedule – Control	Rs. 1,15,000/=
3.	Schedule – DGPS Site	Rs. 3,59,881/=

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**Total Cost Rs. 5,50,601/=**  
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*Director*

**WORK OF ELECTRIFICATION TO THE DGPS SITE AND BUILDING**  
**AT BADI KHANGARPUR, BHAGALPUR**

**Terms & Condition: -**

1. The work shall be completed within 30 days from the date of issue of order.
2. No advance payment will be made. Payment will be released after satisfactory completion of works. However schedule wise running bill payment could be considered based on the satisfactorily completion of each schedule of work.
3. The bidders shall quote item rate for all the 3 schedules. In other case the offer shall be liable for disqualification.
4. The rates shall be written both in words and figures and shall be submitted in the quotation format given herewith only.
5. The cost of the tender document will be Rs 500/=. However, the bidder downloading the document from the site may have to enclose the cost of the tender document in the form of DD favoring to IWAI-fund Patna failing which the tender will be summarily rejected.
6. An amount of Rs.10,000/= shall be deposited in favour of IWAI fund Patna in the form of Demand Draft of any Nationalized Bank or Scheduled bank of India payable at Patna as EMD along with the quotation which shall be adjusted in security deposit i.e. 10% of the estimated cost for the successful bidder. Interest will not be paid on this amount. The bid without EMD amount will be summarily be rejected.
7. The quotation will be valid for a period not less than 90 days after the date of opening of quotations.
8. Interested firm may inspect the DGPS site at Badi Khangarpur, Bhagalpur (Bihar) before submitting the quotation.
9. All the quotations shall be addressed to the Director, IWAI, Patna. Quotation will be received upto at 1500 hrs on 31.03.09 and will be opened on the same day at the above office at 1530 hrs by the TEC in the presence of the representative of tenderers who choose to attend.
10. All the electrical materials to be used shall be only of renowned brand i.e. Havell's, Bajaj, Philips, Anchor etc. During the inspection, if inferior quality of the work/material is noticed, the same has to be improved / replaced by the contractor on immediate basis.
11. In case of any damage / loss of the IWAI property while electrical fitting etc. the contractor shall be responsible to make good, at his cost. Within such period as may be stipulated by the Director, IWAI, Patna or his representative.
12. For any contractual clarification the CPWD norms as per the CPWD Manual 2007 Vol -II shall be referred.
13. Preference shall be given to CPWD/PWD registered contractors.
14. The Authority shall have the right to reject all or any of the quotation and will be not be bound to accept the lowest or any other or to give any reason for such decision.
15. For any clarification IWAI office may be contacted.

Director

**Schedule – Staff**

<b>Provision for electric connection in staff accommodation at DGPS site at Bhagalpur</b>					
<b>Sl. No</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (in Rs.)</b>	<b>Amount (In Rs.)</b>
1	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5sq.mm. FR pvc insulated copper conductor single core cable in surface/recessed pvc conduit, with piano type switch, phenolic laminated sheet, suitable size pvc / G.I. box etc as required.				
	Group A	Point	28		
2	S/F suitable size G.I./PVC box on surface or in recess with phenolic laminated sheet cover in front including P/F 5 pin 5/6 amps socket outlet and 5/6 amps piano type swt. Connection, Paining etc. as require.	Nos	12		
3	Wiring for power plug with 2 × 4 sq. mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit along with: 1Nos 4 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	mm	54		
4	Wiring for circuit/submit wiring along with earth wire with the following sizes PVC insulated copper conductor single core cable in surface / recessed PVC conduit as required				
	A. 2 × 2.5 sq.mm+1 × 2.5 sq.mm earth wire	mt	70		
	B. 2 × 6.0 sq.mm+1 × 6.0 sq.mm earth wire	mt	10		
	C 2 ×6.0 sq.mm along with	mt	70		
5	S/F suitable size G.I./PVC on surface or in recess with phenolic laminated sheet cover in front including P/F 6 pin, 15/16 amps. Piano type switch connection, painting etc as required	Nos	6		
6	S/F 2 pin, 5 amps ceiling rose on the existing junction box including connection etc as required.	Nos	12		
7	S/F batten/angle holder including connection etc. as required	Nos	10		
8	S/F electronic musical call bell suitable for D.C./A.C. single phase, 230 V complete as required	Nos	2		
9	S/F following capacity D.P./TP & N sheet metal switch disconnecter fuse unit in existing metal board with rewireable type, including drilling holes in metal board, making connection etc. as required				
	32 amps double pole	Nos	2		

Sl. No	Description	Unit	Qty	Rate (in Rs.)	Amount (In Rs.)
10	S/F 6 amps to 32 amps rating, 240 volts, 'B' series M.C.B. suitable for lighting and other loads of following poles in the existing MCB DB complete with connection, testing and commissioning etc. required. 6/32 amps single pole "B" series.	Nos	8		
11	Earthing with copper earth plate 600 mm x 600 mm x 3 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as required.	Sets	2		
12	Extra for using salt and charcoal for G.I. or copper plate electrode as required.	Sets	2		
13	S/L 8 SWG copper wire at 0.50 meter below ground level for conductor earth electrode including soldering etc. as required	mt	30		
14	S/F following way single pole & neutral, sheet steel, MCB distribution board, 240 volts, on surface recess, complete with tinned copper busbar, neutral busbar earth bar, din bar, detachable gland plate, interconnection, phosphatized and powder painted including earthing etc. as required.				
	a. 4 way single door	Nos	2		
15	S/F bulk head fitting die cast aluminum alloy body with prismatic glass cover suitable for the GLS/CFL lamp directly on wall / ceiling including connection etc. as required. (Without lamp)	Nos	4		
16	S/F 23 watt CEL on reg.	Nos	10		
17	S/F power coated patty fitting complete with copper ballast 4'x40 watt flu resant lamp etc. directly on ceiling / wall including connection with 1.5 sq. mm PVC insulated copper conductor cable as required (Bajaj & Philips)	Nos	8		
18	S/f 1700mm sweet A.C. ceiling fan complete including connection etc. as reg.	Nos	4		
19	S/F electronic step type fan regulator reg.	Nos	4		
20	S/F PVC/GI box of following sizes on recess with suitable size of phenolic laminated sheet cover in from etc. reg.				
	a. 8" x 10"	Nos	6		
	b. 8" x 6'	Nos	6		
	c. 7" x 4"	Nos	4		
	d. 4" x 4"	Nos	20		
<b>Total Amount</b>					

**Schedule - Control****Provision of Electricity Connection in Control room at DGPS site at Bhagalpur**

Sl. No	Description	Unit	Qty	Rate (in Rs.)	Amount (In Rs.)
1	Wiring for light point / fan point/exhaust fan point/call bell point with 1.5 sq.mm FR pvc insulated copper conductor single core cable in surface/recessed pvc conduit with piano type switch, phenolic laminated sheet, suitable size pvc / G.I. box etc as required.				
	Group C	pt	33		
2	S/F Suitable size G.I./PVC box on surface or in recess with phenolic laminated sheet cover in front including P/F 5 pin 5/6 amps socket outlet and 5/6 amps piano type switch. Connection painting etc., as required.	pt	5		
3	Wiring for power plug with 2 x 4 sq. mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit along with : 1 Nos 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required	mt	30		
4	Wiring for circuit/submain wiring along with earth wire with the following sizes PVC insulated copper conductor single core cable in Surface/recessed PVC conduit as required				
	A. 2 x 2.5 sq. mm + 1 x 2.5 sq. mm earth wire (4amp.for computer + 80 mtrs for circuit)	mt	120		
	B. 2x40 sq. mm + 1x4.0 sq. mm earth wire - (R5 for DB - 45 per A.C.)	mt	90		
	C. 4 X 6.0 sq.mm along with 85 WG G-I....	mt	50		
5	S/F suitable sizes of G.I./PVC on surface or in recess with phenolic laminated sheet cover in front including P/F 6 pin, 15/16 amps socket outlet and 15/16 amps piano type switch connection painting etc. as required	Nos	3		
6	S/F 2 pin, 5 amps, ceiling rose on the existing junction box including connection etc as required.	Nos	10		
7	S/F batten/angle holder including connection etc. as required	Nos	15		
8	S/F electronics musical call bell suitable for D.C./A.C. single phase, 230 V complete as required	No	1		
9	S/F following capacity D.P./TP & N sheet metal switch disconnecter fuse unit in existing metal board with rewirable type, including drilling holes in metal board making connection, etc as required				

Sl. No	Description	Unit	Qty	Rate (in Rs.)	Amount (In Rs.)
	a. 16 amps, double pole	Nos	3		
	b. 32 amps, double pole	Nos	3		
	c. 32 amps, TP & N	No	1		
10	S/F following capacity 2 Pole/4 pole OFF-load changeover switches with side handle operation in sheet enclosure metal board including drilling holes in metal board, making connection, earthing the body etc.as required				
	a. 63 amps, 2 pole	No	1		
11	S/F 6 amps to 32 amps rating, 240 volts, 'B' series M.C.B. suitable for lighting and other loads of foolowing poles in the existing MCB DB complete with connection testing and commissioning etc. as required. 6/32 amps single pole "B" series (6 nos. for 4.C + 12 Nos. for D.B.)	Nos	18		
12	Earthing with copper earth plate 600 mm x 600 mm x 3 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as required.	Sets	2		
13	Extra for using salt and charcoal for G.I. or copper plate electrode as required.	Sets	2		
14	S/F 8SWG copper wire at 0.50 meter below ground level for conductor earth electrode, including soldering etc. as required	mt	40		
15	S/F bulk head fitting die cost aluminum alloy body with prismatic glass cover suitable for the GLS/CFL lamp directly on wall/ceiling including connection etc. as required. (Without lamp)	mt	7		
16	S/F following capacity busbar chamber with 4 strips of suitable size made of copper, heavy duty, complete with all accessories including connections, earthing the body etc. as required				
	63 amps	No	1		
17	S/F following way single pole & neutral, sheet steel, MCB distribution board, 240 volts, on surface recess, complete with tinned copper busbar neutral busbar earth bar din bar, detachable gland plate interconnection, phosphatized and power painted including earthing etc. as required -4 way single door.	Nos	3		
19	<b>S/F 23 watt CFL as reg.</b>	<b>Nos</b>	<b>15</b>		
20	S/F powder coated patty fitting complete with copper ballast 4'x40 watt florescent lamp etc. directly on ceiling/wall including connection with 1.5 sq. mm pvc insulated copper, conductor, cable on reg.	Nos	5		

Sl. No	Description	Unit	Qty	Rate (in Rs.)	Amount (In Rs.)
21	S/F 1400 mm sweep A.C. ceiling fan complete including connection etc. as reg.	Nos	5		
22	S/F PVC/GI box with suitable size of phenolic laminated sheet cover including 3 nos. 6 amps 3/5 pin socket out let 3 nos 6 amps piano type switch, 1 no 15 /16 amps S.S. combined, 1 no. 6/32 amp S.P. MCB and inter connection with 2.5 sq. mm PVC insulated copper conductor cable for used as computer terminal on reg.	Nos	4		
23	S/F PVC by GI box of following sizes on recess with suitable size of phenolic laminated sheet cover in front etc. on reg.				
	a. 8"x10"	Nos	9		
	b. 8"x6	Nos	4		
	c. 7"x4	Nos	4		
	d' 4"x4"	Nos	20		
24	S/F Electronics step type fan regulator - on requirement	Nos	5		
	<b>Total Amount</b>				

**Schedule – DGPS Site**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (in Rs.)</b>	<b>Amount (In Rs.)</b>
1.	Supply of factory fabricate swaged and welded steel tubular length 9 meter long respective ODS 114.3 mm (3.65mm thick) 5 mtr. Long +ODS 88.9 mm, (3.65 mm thick) 2 meter long + ODS 76.1 mm (3.26mm thick) of 2 mtr. Long with M.S. Double arm bracket 1.5 mtr long with suitable angle made of 50 mm dia pipe (for fixing of 1 no. 250 watts HPSV fitting) conforming to IS 410820-25, 1/6th of the length of the pole from its base shall be coated with blank bituminous paint both internally and externally and the remaining portion of the pole shall painted with one coat of red oxide and two coat of aluminum paint on its external surface.	Nos.	10		
2.	Erection of above steel tubular pole below 4 ft of the ground level including excavation and pitching the pole by cement sand & concrete in the ratio of 1:3:6 and making foundation upto 24" above the ground level and pastering the same etc. as required.	Nos.	10		
3.	Supply of 250 watts HPSV lamps complete with chokes, igniter, lamp etc. as required. (Bajaj/Philips)	Nos.	10		
4.	Supply and fitting the Pole mounting type junction Box fitted with 4 nos copper busbar brass nut & bolt and 2 nos 15 amp porcelain kit kat for connection of bapour light fitting and termination of cables by providing suitable sizes of cable lugs. The junction box have to be exbedded in the casting of the foundation and the cover of the box sould be screwed and provided with Alen key loking arrangment.	Nos.	10		
5.	Supply of 3 & 1/2 core 650 volt/1100 volt PVC insulated 25 sq mm aluminum conductor armoured cable.	Nos.	370		
6.	Providing earthing with 4.5 mtr. Long 40 mm dia GI pipe with masonry enclosure on the top including excavation and provision of coke, charcoal, salt and 8SWG bare GI wire from earth electrode etc. as required.	Sets	2		
7.	Supply of 75 mm dia heavy gage GI pipe (for road crossing).	mts	10		
8.	Trench cutting in P.C.C./Pitch road/Soil of size 2.5'x1 m with 8 nos. bricks for width wise covering and sand and refilling the same etc. as required.				
	(a) In soil	mts.	350		
9.	S/F of 100 Amps TPN complete with conection etc. as required. Make Havells.	No.	1		
10.	S/F of 63 Amps DP complete with connection etc. as required Make Havells.	Nos.	2		
11	Supply, laying and connection of HPSV lamp with twin core flexible cable of 6 sq mm size.	mts.	200		
	<b>Total Amount in Rs.</b>				