DELHI DEVELOPMENT AUTHORITY OFFICE OF SUPERINTENDING ENGINEER (E) PLG.

VASANT KUNJ, NEW DELHI.

No. W-26/SE (E) P/2013-14/DDA/ 891

Date: 30-10-2013

MINUTES OF MEETING

Subject: Pre-bid meeting for the work of D/o land at Rohini Ph. IV & V - C/o full width of Master Plan Road 80 mtr. right of way (UER-III) at Rohini Ph. IV & V & 60 mtr. R/W and 45 Mtr. R/W of road.

(SH: Providing street lighting on 80 mtr. R/W from Western Yamuna

(SH: Providing street lighting on 80 mtr. R/W from Western Yamuna Canal to Prem Adhar)

Pre Bid meeting was held in the office of Chief Engineer (Elect.) on 22.10.2013 at 3 PM. List of participants who attended the meeting is attached.

After due discussions and deliberations, following decisions were taken:

- 1. Schedule of Work: Revised schedule of work is enclosed.
- 2. List of Acceptable Makes: Revised list of acceptable makes is enclosed.
- 3. Additional Terms & Conditions:
- a) Para 1 General: Para 1.2 iv) is deleted.
- b) Para 2 Scope of Work: It is clarified that works deemed to be included within scope of work are those not mentioned in the schedule of work.
- c) Para 11 Completeness of Tender: Following is added:

"Successful tenderer within one month of award of work shall obtain and submit certificate for achieving illuminance criteria (E-Average; E-minimum / E-Average; E-Minimum / E-maximum) from the manufacturer of lighting fixtures, intended for the work for demonstration at site after execution of work by the tenderer.

"Grid size of 5 mtr. and pole to pole distance of at least 35 mtr. shall be considered for measurement of horizontal lux level at GL (Elevation Zero)".

d) Para 14 Completion Plan & Data: Following is added in Para 14 i):

- 1. General layout showing route of cables, location of feeder pillars along with schedule of lengths, types & sizes of cables in various circuits, pole nos, on each circuit and position of cable joints etc.
- 2. Maintenance schedules of fittings, panels and other equipments as applicable.

4. Technical specifications:

a) Para 1 Door opening: 'The door shall be flush with hinged and locking facility' shall be read as 'The door shall be flush with hinges and locking facility'.

'The pole shall be additionally reinforced with a welded steel section, so that the section at door is unaffected and undue bucking of the cut section is prevented' may be read as 'The pole shall be additionally reinforced with a welded steel section, so that the section at door is unaffected and undue buckling of the cut section is prevented'.

- b) Para 1.1 is deleted.
- c) Para 2 Street Light Luminaire vi) Glass Cover: This is modified as: 'Curved & toughened glass cover of lamp compartment to give smaller flash and better glare control shall be acceptable'.
- d) Para 3 Feeder Pillar: Sub-Para xi) is modified as under.

The feeder pillar shall be provided with a danger notice plate.

Following Sub Para is added.

- xiv) All connections & interconnections wires inside the feeder pillar shall be provided with tags / ferrules for identification.
- 5. Schedule F 2 (xi) Standard Schedule of Rates: 'Market Rates / DSR' may be read as 'Market Rates / DSR (E) 2012'
- 6. As regards registration with EPFO & ESIC, instructions issued vide letter no. W-30/SE (E) P/DDA/2013-14/865 dated: 19.09.2013 may be referred vide which contractors not registered with EPFO & ESIC were permitted to bid till further development in the matter.

7. Drawings of pole, pole bracket and typical feeder pillar (main and service) are enclosed.

Changes / Modifications / Additions made above shall be considered by all the intending tenderers for filling up the rates in the "Revised Schedule of Work" enclosed herewith. This letter shall form part of the tender. Therefore, this letter duly stamped and signed by the tenderers in lieu of their acceptance, shall be submitted by all the tenderers failing which their tenders will not be opened.

EE (E), ED-10

EE (E) P,EC-1

SE (E),EC-1

EE (E) P

SE (E) P

Chief Engr. (Elect.)

Copy to: along with copy of revised BOQ & Revised list of acceptable makes

- 1. SE (E) EC-1
- 2. EE (E) Elect. Divn.-10.

SE (E) P

REVISED SCHEDULE OF WORK

NAME OF WORK: Development of land at Rohini Phase IV & V. C/O Full width of Master Plan Roads 80 Mtr. right of way (UER-III) at Rohini Phase-IV & V and 60 Mtr. R/W and 45 Mtr. of road.

SH: Providing street lighting on 80 Mtr. R/W Road. (UER-III) from Western Yamuna Canal to Prem Adhar in Rohini Phase-IV & V

Sr. No.	Description of Item	Otv.	Rate	Unit	Amount
	12 mtr. height Pole				
_	Supply, erection, testing and commissioning of hot dip Galvanized Octagonal Poles of 12 mtr. height made from 4 mm. thick sheet having bottom 200mm OAF & top 100 mm OAF and				
	provided with welded base plate of size 320 mm x 320 mm x 20 mm thick, with built in control box with flush cover with 3 nos. mounting strips with tapped holes on existing RCC foundation, numbering of poles etc. complete as per drawings & technical specifications attached i/c	266		No.	
	providing and fixing of following accessories mounted inbuilt in control box. NOTE: On this note broaders shall be installed at beingt of 17 met. and 7 met. for suitable				
-	arrangement for fixing of these brackets shall be made while fabricating the pole				
, a)	6 mm thick phenolic laminated / bakelite sheet inside the window mounted on the existing mounting strips inside the flush door.				
6)	2 nos. 63 Amp terminal block suitable for following conductor / cable, on the existing phenolic laminated / bakelite sheet.				
ij	25sq mm conductor - 2 nos (incoming and outgoing looping)				
Ξ:	3C x 2.5sq mm (for fitting)				
iii)	Terminal suitable for 6 SWG GI wire / 2.5sq mm wire.				
0)	6 Amp, SP MCB, 10 KA, 'C' Series – 2 nos. including mountings on suitable DIN channel, Earth stud 2 Nos. welded at suitable height i/c washers, springs washers & nuts etc.				
d)	Suitable arrangement for saddling of incoming / outgoing cables				is a
12	Supplying & fixing of Galvanized single arm bracket made out of suitable sized round pipe on existing octagonal pole, galvanised overhang with tightening bolts etc. as per drawing attached etc. as reqd. Tilt angle shall be between 5 to 15 degree.				
a)	1000 mm long (to be installed at 12 mtr. height)	266		No.	
b)	500 mm long (to be installed at 7 mtr. height on opposite side of the same pole)	266		No.	

90 mm.outer dia. nominal size.	(HDPE) pipe having corrugation of the outer wall and plain surface on inner wall ISI marked (IS:14930(Part I & II)) complete with necessory HDPE fitting for protection of LIKV grade underground cable directly in ground at a depth of 50cm including excavation and a first trench etc. as required.	Supplying and laying of one number double walled a service pillar to first pole)	a) 3x2.5 sq. mm	Supplying and drawing following	Wiring from pole to fitting	a) HPSV fitting with 400 watt SONT Plus Lamp b) HPSV fitting with 70 watt SONT Plus Lamp	Gear compartment IP- 66	die-cast aluminium J glass cover with acco technical specificato	5 Supplying, instal	portion)G.I. fo 2Nos. Templat holes, to match Light Fixture	Foundation n 4 Supplying of 2	mm.(L) x75 bending and (approx) 8N. 10nos, (with foundation be exit etc. com
mm.outer dia. nominal size.	DPE) pipe having corrugation of the outer with 14930(Part I & II)) complete with necessor derground cable directly in ground at a depth or here as required.	wc Pipe (from main feeder pillar to sei	itable size of annealed copper lugs it x2.5 sq. mm	upplying and drawing following	Viring from pole to fitting	IPSV fitting with 400 w	ear compartment IP-	die-cast aluminium lylass cover with acceechnical specificato	Supplying, instal	portion)G.I. fo 2Nos. Templat holes, to match Light Fixture	Foundation r. Supplying of a	mm.(L) x75 bending and (approx) 8N. 10nos, (with foundation be exit etc. com
the	(HDPE) pipe having corrugation of the outer wall and plain surface on inner wall ISI marked (IS:14930(Part I & II)) complete with necessory HDPE fitting for protection of 1.1KV grade underground cable directly in ground at a depth of 50cm including excavation and a fitting for protection of 1.1KV grade trencher as required.	vice pillar & service pillar to first pole)	suitable size of annealed copper lugs is in scope of item)	Supplying and drawing following sizes of FR PVC insulated conner conductor	ONT Plus Lamp	att SONT Plus Lamp	- 66 54	die-cast aluminium housing, high-grade reflector, control gear, ignitor, condensor, protective glass cover with accessories including tubular lamp, making connection and complete as per technical specification attached.	ation, testing and commission	portion)G.I. foundation bolt (EN8 grade) with 2 nos. nuts and 2 no washers per bolt alongwith 2Nos. Template/anchor plate of size 320 mm x 320 mm., 4mm thick having 4Nos. 28mm.dia Light Fixture	Foundation nuts & bolts for 12 mtr. Height poles Supplying of 4Nos. M 24 x 800mm length poles	mm.(L) x750mm (W) and 1800mm. deep i/c excavation of earth, refilling, providing cutting, bending and placing in position, reinforcement of cold twisted bars of 12mm. dia-1960mm long (approx) 8Nos, and reinforcement ring of cold twisted bars of 8mm dia-2800mm long (approx) - 10nos, (with 150mm spacing) including centering & shuttering as required with positioning of coundation bolts (as per item no. 4) and providing 75mm.(O.D) DWC pipe for cable entry & exit etc. complete as required.
8000		5300		100	266					266		266
		Mtr.		No.	No.					Set		N _o .

		Ammeter (0 -150 A). 96 sq. mm. with selector switch & 150/5 Amp ratio CTs - 1 Ser	e)
		Voltmeter(0 - 500 V) 96 sq. mm. with selector switch Set	d)
		Compartment having space for DISCOM energy meter with 6mm thick bakalite sheet for mounting of energy meter	2
		(outgoing to SFP) (including 2 no. spares)	
	· · · · · · · · · · · · · · · · · · ·	comer)	
		fixing of the following items and as per technical specification & schematic drawing enclosed.	a)
Set	2	PVC sleeved with thimble/ lugs, earthing the body of the feeder nillar including small in	
)	compartmentalized (out door type) made out of 2mm thick MS CRCA sheet making connection,	
		Supplying, installation, testing & commissioning of floor mounted free standing type, LT cubical main feeder pillar suitable for operation on 415 V 50 Hz AC	==
Mtr.	29000	Main feeder pillar	:
Mtr.	0000	2C x 25 sq mm (to poles)	b)
		4 C x 70 sq mm (from Main Feeder Pillar to Service Feeder Pillar)	a)
		grade including making connection with suitable size of annealed copper lugs, testing etc. as required.	
		Supplying of following sizes of VI DE Al	10
		Note: To be provided at both ends of the road for road crossings etc.	
		common burnt clay F.P.S (non modular) bricks of class designation 7.5	
N _o	2	horizontal grating with frame and vertical grating complete as ner standard design with	
		cement mortar 1:4 (1 cement : 4 coarse sand) including 500 mm x 450 mm pre - Cast P C	
Mtr.	500	Constructing brick masonary road gully chamber 110 cms x 50 cms x 77 5 cms with being in	9
		90 mm.outer dia. nominal size.	a)
		of pipes, excavation of pits of required. size & depth of 80 c.m. (minimum) etc. 25 required.	
		jointing, cleaning, rodding of pipe performing mandral test providing	
		bo	
		is: 4004 with a size confirming to	

		Τ	Г				Γ			П					Τ		T	T	T	Τ						
13 b)	13 a)				9)	Ð	e)	d)	c)	b)	a)			12			0)	2 2	m)	=	5	jj	ij	h)	g)	Ð
Laying of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size exceeding 35 sq.mm but not exceeding 95 sq.mm in the existing Dwc/Rcc/Hume/Stoneware/Metal pipe etc. as required	Laying of one no. PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size not exceeding 35 sq.mm in the existing DWC/RCC/Hume/Stoneware/Metal pipe etc. as required	Cable & Cable laying	paid.	Note: Foundation shall be made as per site requiement for which nothing extra shall be	Lighting inside the feeder pillar	6 Pin 15 A Switch / Socket outlet - 1 Set	Danger notice plate - 1 No.	Indication lamp (RYB) with control HRC fuse with fuse fitting - 1 Set	200 Amp., 4 strip aluminum busbar- I set.	32Amp, DP MCB, C series, 10KA-9 nos.	125 AmpTP & N,415 volts switch disconnector unit with HRC fuses (interior only)-1 no.	PVC sleeved with thimble/ lugs, earthing the body of the feeder pillar, including supplying & fixing of the following items and as per technical specification & schematic drawing enclosed.	compartmentalized (out door type) made out of 2mm thick MS CRCA sheet making connection, interconnection of the accessories mounted thereon with suitable size of conner wire/strin duly.	Supplying, installation, testing & commissioning of floor mounted free standing type, LT	Service feeder pillar	paid.	Note: Foundation shall be made as per site requiement for which nothing extra shall be	6 Pin 15 A Switch / Socket outlet - 1 Set	Danger notice plate1 No.	300 Amp., 4 strip aluminium busbar- I set.	Auto /, Manual toggle switch- 1 No. (Timer bypass switch)	Time switch- 1 no.	Power contactor, 3 pole, 200 Amp 1 No. along with CTs, if required.	6 Amp. SP MCB - I No.	32Amp, DP MCB, C series, 10KA-9 nos. (outgoing circuit)	Indication lamp (RYB) with control HRC fuse with fuse fitting - 1 Set
6600	2000												4													
Mtr.	Mtr.												Set			*										
2.0																										

Rs.		Total	
No.	266	m.m. x 6 m.m. thick M.S. flat and 16 nos. spikes of 10 m.m. M.S. round 300 m.m. long with upward and downward spikes including galvanising, nut & bolts . washers etc.etc. complete as	
Mir.	42200	existing surface/DWC pipe / recessed conduit / submain wiring / cable as reqd.	
Mtr.	100	Providing & fixing 25mmx 5mm G.I strip in 40 m.m. dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring washer, excavation and refilling etc.as required.	
Set	56	Earthing with C.I. earth pipe 4.5 mtr long x 40 mm dia i/c accessories and providing masonary enclosure with cover plate, having locking arrangment and watering pipe etc. but with charcoal / coke and salt etc as reqd.	
		Earthing	
Set	36	2C x 25 sq.mm	b)
Set	8	4 C x,70 sq.mm	
		following sizes of PVC insultaed and PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade as required.	5
Mtr.	27000	size not exceeding 35 sq.mm direct in ground including excavation, sand cushioning, protective covering & refilling the trench etc. as required.	





SE (E) P



REVISED LIST OF ACCEPTABLE MAKES

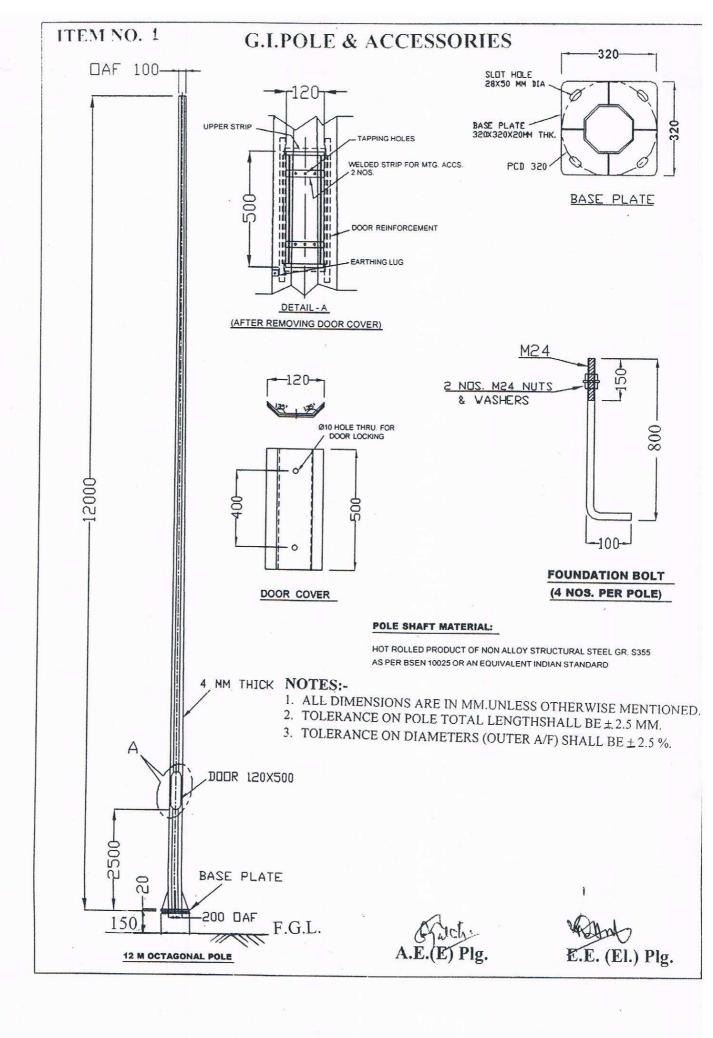
S. N		MAKE / MODEL
1	Street Light Fitting (400 W) Lamp compartment IP- 66 Gear compartment IP- 54	Philips (VELOCITY SGP 338) / Bajaj (JET BJENP RL-1) /Schreder (MC-3) / Wipro (WST 42400 AFRO) / Crompton (SSCP) Wipro (WST 42400 AFRO) / Crompton (SSCP)
2	Street Light Fitting (70 W) Lamp compartment IP- 66 Gear compartment IP- 54	AERO) / Crompton (SSGP 1140 IHN) Philips (SGP 301) / Bajaj (Wave) BGWRL /Schreder (Nano-1) / Wipro (WST 50070) / Crompton (SSGP 1207 IH 09) / Crompton (SSGP 1207 IH09)
3	GI Octagonal Pole & Pole bracket	Bajaj / Mastech Technologies Pvt. Ltd. / Surya Roshn / Valmont / Paruthi / Transrail Lighting Ltd.
4	HPSV / Metal Halide Lamp	Philips / OSRAM / GE
5	Capacitor and Ballast for Control Gear Compartment	As per standard fitment of the fixture
6	XLPE insulated aluminum conductor power cable	Skytone / Havell's / NICCO / KEI / Universal / Polycab / Finolex / R.R. Kable
7	PVC insulated copper conductor wire (FR)	Skytone / National / Ecko / Havell's / NICCO / KEI / Asian / Universal / Polycab
8	Miniature Circuit breaker	LEGRAND (LEXIC) / SCHNEIDER (M.G.) NOW
9	Time Switch	9/HAGER/SIEMENS (BETA GUARD) L & T/MDS/SCHNEIDER/SIEMENS
10	LT Switchgear (Contactor, Switch Disconector Fuse Unit)	LEGRAND / A.B.B. / SIEMENS / SCHNIEDER) / L & T
11	DWC Pipe	DURALINE / REX
12	Feeder Pillar	ADVANCE PANELS & SWITCHGEARS (P) LTD./ TRICOLITE / ASSOCIATED SWITCH GEAR & PROJECTS .LTD.(ASPL) / ADLEC SYSTEMS PVT. LTD. / MILESTONE / AMBIT
13	LED indicating lamp	C&S / Siemens / L&T / Kaycee / A.E./ SCHNEIDER(MG)
4	Auto Manual Selector Switch	ABB / Schneider / Siemens / L&T
5	HDPE Pipe	Any ISI marked
6	G.I Pipe	TATA / Prakash Surya / Jindal (Hissar)

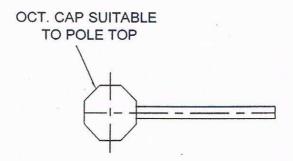
AE (E) P

EE (E) P

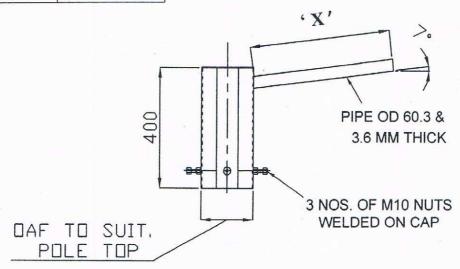
SE (E) P

ÆE (E)





, ×	,
AT 12 MTR. TOP	1000mm. LONG
AT 7 MTR.	500mm. LONG



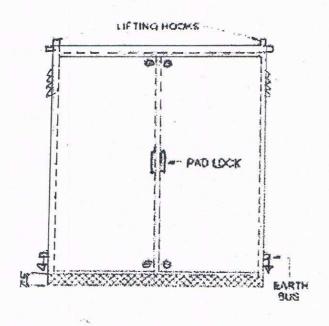
SINGLE ARM BRACKET

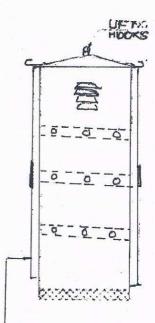
NOTES:-

- 1. ALL DIMENSIONS ARE IN MM.
- 2. MS PIPES AS PER IS 1161-1979.
- 3. MS PLATE AS PER IS-2062.
- 4. HOT DIP GALVANISING 65 MICRONS AVERAGE.
- 5. FOR BRACKET TO BE MOUNTED ON SAME POLE AT HEIGHT OF 7 MTR. SUITABLE ARRANGEMENT FOR CLAMP IS REQUIRED.

Month Engham (F)

Ex. Engineer (F)



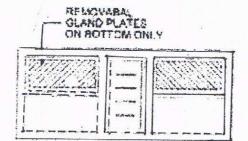


SIDE VIEW

FEEDER PILLAR FRONT VIEW WITH DOOR

PEAR DOOR HINGED.

TYPE PANEL LOCKABLE
WITH PAD LOCK



NOTE:-

 SIMENSION SHOWN ARE INDICATIVE BUT ACTUAL SHALL BE AS PER REQUIREMENT

BOTTOM VIEW

(TYPICAL)

- 1. THE PANEL SHALL BE FABRICATED WITH.
 - 3 WASH FRAME AND LOAD BEASING NEVBERS 2 THYTOCPES
 - & DECIRS AND PARTITIONS
- -Sam Cuch
- C HEMOVABLE GLANDPLATE
- -3mmerca

G. BASE FRAME

ISMC 7545CM

Last Engineer (P)

Ex Engineer (P)