



NAYA RAIPUR DEVELOPMENT AUTHORITY

**Tender Document for the
Development of Map Area Under 200 meter Avenue
Road, Naya Raipur**

(Following Three-Envelope Tender Procedure)

**Schedule – A
Price Tender
To be submitted in ENVELOPE-3**

NIT No.: 119 /MAP-200/AEC-1 /CE (E) / NRDA / 2014-15, Raipur,

Dated: 24.03.2015

Issued by: Chief Executive Officer,
Naya Raipur Development Authority (NRDA)
1st floor, Utility block, Capitol Complex, Sector-19,
Naya Raipur 492 002, Chhattisgarh
E-mail: ceo@nayarapur.com

Tender Document Contains

- (a) Only schedule "A" and Section-I of schedule "D" are to be filled & signed by the tenderer
 (b) All the certificates as per pre qualification criteria shall be appended with relevant forms of schedule "D"

1. PART ONE (NRDA F-1)-(Attached herewith, to be submit along the tender)

Part (A)

- a) Press Notice
 b) Detailed NIT

Part (B)

a) Schedule-A

- (i) Cost Abstract
 (ii) Bill of Quantities

- b) Schedule-B –NIL
 c) Schedule-C –NIL
 d) Schedule-D

Section-I..... Technical tender forms

- (i) Letter of Technical Tender
 (ii) Tenderer's Information Sheet
 (iii) Annual Turnover
 (iv) Specific Construction Experience
 (v) Declaration
 (vi) Check list for Technical tender evaluation

Section –IIScope of work

Section –III..... Technical specifications of work

Section –IV..... Special Conditions of Contract

Section –V..... List of approved makes

Section –VI..... Drawings

- e) Schedule-E
 f) Schedule-F

2. PART TWO (NRDA F-2/3)-Standard form (Not Attached herewith, and not to be submitted along the tender)

Important note: - Link site <http://nayaraipur.gov.in/documents/gcc.pdf>

1. General Guidelines
2. Tender
3. General rules and directions
4. Conditions of contract
5. Clauses of contract
6. Model rules relating to labour, water supply and sanitation in labour camps safety code
7. Contract forms
 - (a) Draft Format for Performance Security
 - (b) Earnest Money Deposit Form (Bank Guarantee)
 - (c) Format of Contract Agreement
 - (d) Draft Format for Performance Guarantee for Water Proofing and Anti-termite Works
 - (e) Indemnity Bond
 - (f) Indenture Bond
 - (g) Notice for Appointment of Arbitrator
8. Performa of schedules (Schedule 'A' to Schedule 'F')

Naya Raipur Development Authority (NRDA) Raipur, Chhattisgarh

Document details

Name of work: Development of Map Area Under 200 meter Avenue Road,Naya Raipur

Name of Tenderer:

Details

- a) Cost of Tender Document : Rs
- b) EMD : Rs

Signature of Tenderer

Date:_____

Signature of Contractor.....

Signature of NRDA.....

COST ABSTRACT**Development of Map Area Under 200 meter Avenue Road,Naya Raipur**

Sl. No.	Description of Items	Amount in Figures (In INR)	Amount in Words (In INR)
A	Civil Works	Rs. -	
B	Plumbing Works	Rs. -	
C	Electrical Works	Rs. -	
D	Flag Post	Rs. -	
E	Statue	Rs. -	
F	Horticulture	Rs. -	
	Total	Rs. -	

Bill of Quantities

Development of Map Area Under 200 meter Avenue Road,Naya Raipur

Sl . No.	Description of Items	Unit	Quantity	Rate [In INR]	Rate (In Words)	Amount [In INR]
A	Civil Works					
	Carriage Way (6m RoW)					
1	Construction of embankment with Material Obtained from Borrow Pits/Borrow Area (Construction of embankment with approved material/selected soil having C.B.R.>5 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)	Cum	28000			-
2	Footpaths and Separators (Construction of footpath/separator by providing a 150 mm compacted granular sub base as per clause 401 and 75 mm thick cement concrete base with PCC grade M-15, over laid with exterior grade precast cement concrete tiles 25mm thick fixed in 20mm thick cement mortar 1:3 including provision of all drainage arrangements but excluding kerb channel excluding cost of GSB.) as per clause 410.	Sqm	3084			-
3	Manufacturing, supply & fixing of precast kerb stone of size 400mmx259mmx200mm thick made of M-20 concrete rectangular in shape with one corner chamfered by 100 mm x 100 mm as approved design i/c cost of all material, labour and curing etc. complete.	Each	2920			-
4	Random rubble masonry with hard stone in foundation and plinth in Cement Mortar 1:6 (1 Cement : 6 Coarse Sand) including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand: 12 stone aggregate 20mm nominal size) upto plinth level.	Cum	108			-
5	Providing and laying hand cut, reddish pink Bilha stone or approved equivalent stone blocks, of average size 100x200x600mm thk neatly dressed to give an even surface and fixed in position with 1:6 cement mortar of approved quality in approved pattern, laid edge to edge on a bed of joints finished with neat cement slurry, laying as per design, including curing, cleaning complete as directed & as per detail drawing. (superstructure above plinth level)	Cum	60			-
6	Supplying and spreading of good earth at site including royalty, loading, unloading and carriage all complete	Cum	2237			-
7	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).	Cum	24			-
8	Plain cement concrete complete as per drawing and Technical Specifications					
	PCC Grade M 20	Cum	9			-
9	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (Average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)					
	Granite stone grey/pink	Sqm	120			-
10	Extra for nosing in Granite stone for treads	metre	600			-
11	Painting on Concrete Surfaces					
	Two coats on new surfaces (Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces)	Sqm	215			-
	Sub-Total of Civil Work					-
B	Plumbing Works					

Sl. No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
I	Fountain					
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.					
	In all types of soil	Cum	61			-
2	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.					
a)	M-20 Grade	Cum	18			-
b)	M-30 Grade	Cum	53			-
3	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:					
	Thermo-Mechanically treated bars FE 500D	kg	7045			-
4	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:					
a)	Foundations, footings, base of columns and plinth beam in any shape and size.	Sqm	276			-
5	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:					
a)	Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)	Cum	5			-
6	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:					
a)	In Cement Mortar 1:4 (1 cement : 4 fine sand)	Sqm	31			-
5	15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado and pillars laid on 12mm (average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).					
a)	Granite stone grey/pink	Sqm	51			-
6	15 mm thick Table rubbed polished Granite stone slab flooring laid over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing etc. complete. (Area of slab should be 0.50 sqm and above)					
a)	Granite stone black colour	Sqm	178			-
7	Extra for nosing in Granite stone	metre	108			-

Sl. No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
8	P/Fixing paper tiles of approved brand & pattern like Bisaza, Shon,Peladite as per manufacturers literature etc. complete.	Sqm	185			-
Sub-Total of Fountain						-
II	CASCADE FOUNTAIN					
1						
a	Cascade Fountain, Nozzle A;; gunmetal construction Suits 1.5",, Female threaded connection DD-CAS-150	Nos.	9			-
b	construction Gasket: Special Nitrite Rubber Fastener: Stainless Steel Lens: Sealed Beam DD-UWL-230V300W-C	Nos.	27			-
c	Light Mounting Unit for mounting lights DD-LMU-3P-300	Nos.	9			-
d	Light Mounting Stand fixed Standing DD-LMS-FX-300	Nos.	27			-
e	Fastner: Stainless Steel Rubber Bush: Special Nitrite Rubber 1 1/2" BSP female threaded connection DD-JB-6L	Nos.	1			-
f	Kirloskar Make Openwell submersible pump 10HP 3 Phase	Nos.	2			-
g	4" NRV with Fingeres, Nuts and Bolts	Nos.	2			-
h	1 1/2" Ball Valve in Brass/ Gunmetal	Nos.	9			-
i	Plumbing with fittings in PVC 10kg Tested 1 1/2"	metre	9			-
j	Plumbing with fittings in PVC 10kg Tested 6"	metre	45			-
k	Electrical Control Panel	Nos.	1			-
l	Cables 1.5sq mm 3 core copper flexible cable	metre.	250			-
m	Cables 6sq mm 3 core copper flexible cable	metre	100			-
n	2" Conduiting	metre	100			-
2	8000 LPH FILTER					
a	8000 LPH capacity Imported High Rate Filter as filter as filter media giving 4-6 micron filtration. Filter having a high strength HDPE/FRP seamless moulded filter tank with deep bed. Lateral under drain for high flow rates low pressure drop. Quality 6 position multiport valve, with self seal barrel unions & quality salt resistant pressure gauge.	Nos.	1			-
b	Kirloskar make 1HP Monoblock Pump set	Nos.	1			-
c	Suction Drains	Nos.	1			-

Sl . No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
d	Floor Inlets	Nos.	4			-
e	Dozing Pump with Plastic Container for Choline and Alum	Nos.	1			-
f	Control panel	Nos.	1			-
g	Plumbing from Filter & back 2" PVC Pipe with fittings	Nos.	1			-
Sub-Total of CASCADE FOUNTAIN						-
III IRRIGATION SYSTEM						
1	Media filter 50 Cumh: Supplying and erection and commissioning of 50Cum/hr, media filters including all pipelines , fixtures , pumps with driving motor,common base plate, accessories, hardwares, instruments, with 3" automatic Mild steel body coated with more than 70 micron deep blue colored epoxy powder inside & outside surface for protection against corrosion & weather effects and the Maximum pressure rating 10 kg./cm2 with BSP threaded end connections, Fully automatic time based ackwash arrangement with 24 VAC , solinoid valves & controller with input power supply of 230 VAC arrangements .The filtration media should be crushed silica sand of particle size 1mm to 2mm. For high filtration efficiency outlet candles may be provided with an effective filtration of 75 micron is expected including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers incharge.	Nos.	1			-
2	Screen filter 50 Cumh: Supplying and erection and commissioning of 50Cum/hr, screen filters including all pipelines , fixtures , with common base plate, accessories, hardwares, instruments, 3" with extra element, Plastic ribbed body construction with bspt threaded connections, maximum pressure 10kg./cm2, Element for filtration of 100 micron, flow direction out to in. Strong & smooth opening, drip tight, stainless steel clamp closure including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	1			-
3	Air release Cum vacuum br. valve 1" : Supplying and erection and commissioning of Air release Cum vacuum breaker valve 1" Plastic Body Continous acting air release valve acts as vacuum release valve while drain off. specially designed rubber strip to seal the air vent perfectly. 1" BSP male threaded end connections.The pressure rating of 10kg/sqcm and maximum sealing pressure of 0.5kg/sqcm. Balanced float to remove the small air pocket including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge	Nos.	1			-
4	uPVC Pipes (10kg/sq.cm.) : Providing lowering laying in trenches, aligning, fixing in position and jointing socket rubber gasket type isi marked upvc pipe of (10kg/sq.cm.) suitable for potable water with rubber ring joints as per IS:4985-2000 for following outer dia with all the accessories complete including fittings /accessories like tee, elbow, reducer, ends, couplers & include the jointing solvent and excavation work and all material labour, hydraulic testing and commissioning as per technicalspecifications and as per the direction of engineers.					
a	140 MM. OD.	metre	200			-
b	110 MM. OD.	metre	400			-
c	90 MM. OD.	metre	220			-
d	75 MM. OD.	metre	150			-
e	63 MM. OD.	metre	100			-

Sl . No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
f	40 MM. OD.	metre	150			-
	EMITTERS & ACCESSORIES.					
3	Supplying, erection and commissioning of Commercial type gear drive rotor pc/fc. in one model With plastic riser & drain check valve Non strippable, flow stop control & rubber cover.Roter handling maximum Radius of coverage of 14 metres; flow upto 3.23 Cumh. for a pressure range 1.7 bar to 4.5 bar overall height 19 cms. pop up height 10 cms. exposed dia. 4.5 cms. inlet size 3/4" female . drain check valve upto 3 metres. with service saddle heavy duty, swing joint 3/4" Tape, etc. including all material, labour, accessories hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	5			-
4	Supplying, erection and commissioning of Commercial type gear drive rotor pc/fc. in one model With plastic riser & drain check valve Non strippable, flow stop control & rubber cover.Roter handling maximum Radius of coverage of 21.6 metres; flow upto 7.24 Cumh. for a pressure range 2.5 bar to 7.0 bar overall height 20cms. pop up height 10 cms. exposed dia. 5 cms. inlet size 1" female BSP/NPT . drain check valve upto 3 metres. with service saddle heavy duty, swing joint 3/4" Tape, etc. including all material, labour, accessories hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	20			-
5	Supplying, erection and commissioning of matched precipitation rotator double pop up multistream nozzle mounted on a uv resistant body with co molded wiper seal, drain check valve (up to 4.3 metres. of elevation) & pressure regulated to 2.1 bar., overall ht about 15.5 cms; exposed dia. 5.7 cms. inlet 1/2" female heavy duty service saddle & swing joint of 1/2" size to be used in the fixing work with radius of coverage 6 metres. to 9.1 metres. & flow rate 97 lph. to 481 lph. Commercial type gear drive rotor pc/fc. in one model including all material labour,accessories, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	30			-
6	Inline drip 16 mm. 4 lph. 0.4metres. CL II -IS pc. with fittings: Supplying, erection and commissioning of inline drip of 16mm. OD LLDPE lateral with pressure compensating drippers 4 lph. capacity installed inside the lateral. inline made of special grade virgin plastic marked-CL-II as per IS 13488 to be fixed with necessary accessories including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	1100			-
7	LLDPE Poly tube 16 mm.: Supplying, erection and commissioning of Poly tube 16 mm. ISI CLL, manufactured from virgin LLDPE using latest extrusion technology - UV stabilized as per IS 12786 including all material labour, hydraulic testing and oning all complete as per the direction of engineers in charge.	Nos.	200			-
8	Butterfly valve: Supplying, erection and commissioning of Butterfly valve 80 mm. ISI marked, minimum pressure rating 10 kg./sq.cm. minimum including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	10			-
9	Flush valve 40 mm: Supplying, erection and commissioning of Flush valve 40 mm matching the upvc. Pipe. Pressure Rating 10 kg./sq.cm. to be supplied by the pipe manufacturer including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	5			-
10	Air release Cum vacuum valve 1" : Supplying, erection and commissioning of Poly proplene plastic double acting air Cum vacCume release valve 1" with EPDM rubber strip sealing with a minimum Pressure Rating 10 kg./sq.cm. and sealing pressure as 0.5kg/sqcm including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	5			-
11	Valve box 10" : Supplying and erection of Valve box 10" circular model with rugged reinforced plastic construction and robust top cover with non slippery grips and provisions of snap fit type locking arrangement including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	20			-
12	Pvc. ball valve 40 mm: Supplying, erection and commissioning of ISI marked ball valve 40 mm; with compact double union type made from high performance rigid pvc compound to be provided with nitrile rubber o rings & ptef seat rings, solvent weld plain ends arrangement including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	5			-

Sl . No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
13	Centrifugal pump : Supplying and erection and commissioning of Horizontal split casing centrifugal pumps with driving Motor, common base plate, accessories, hardwares, instruments for a discharge 12lps of head 73m etc with control panel, main switch, single phase preventer, phase indicating lamps, dry run protection, foot valve, Non return valve & gate valve ISI marked with pressure indicator including all material labour, hydraulic testing and commissioning all complete as per the direction of engineers in charge.	Nos.	2			-
Sub-Total of IRRIGATION SYSTEM						-

Sl . No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
IV	TUBE WELL					
	Providing and installation Tubewell boring Approximate 150 Meter deep, 7.5 H.P. Electric Pump of approved make to deliver the required water pressure, along with required electrical installations and connection pipe etc. complete.					
1	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well with in the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable)	Point	4			-
2	Drilling of perfectly vertical bore hole of a diameter suitable to receive 150 mm nominal diameter casing pipe up to desired depth below ground level including providing, lowering and fixing of 150 mm nominal dia ISI marked G.I. casing pipe Medium Class inside the bore hole including all work pertaining to drilling, installation and removal of drilling machine etc. complete . In all types of collapsible strata consisting of soil, clays, sand, moorum, gravel, boulder etc.	metre	150			-
3	Providing and fixing of M.S. well cap on top to the tube well casing pipe for protection: 150mm dia	Each	1			-
4	Providing assembling, centering and lowering of properly designed casing pipe assembly inside the bore hole drilled for construction of gravel packed tube well including the cost of providing and fixing of centraliser, and transportation of casing assembly etc. complete. Casing assembly composed of 150 mm diameter blank and slotted G.I. casing pipes with following specifications: - 1) Type of pipe - 200 mm dia G.I. medium "B" class casing pipe ISI marked. 2) Internal dia of Pipe = 150 mm 3) Thickness of pipe = 2.0 mm 4) Mass of Pipe = 57-58 Kg	metre	15			-
5	7.5 HP electric pump of approved make to deliver the required water pressure, along with required electrical installation and connection pipe etc. Supplying, installation, testing and commissioning of submersible pump set for water supply system having 7.5 HP , three phase, 415 volts AC induction submersible motor directly coupled with solid coupling to multi-stage submersible pump of discharge capacity of 250 LPM at a head of 60 metres, delivery size 50 mm, in existing bore well of dia. 1000/ 12000 mm, including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection etc. as required.	SET	2			-
6	Supply, installation, testing and commissioning of cubicle type wall/ floor mounted power Cum control panel made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) Star-delta starter suitable for 7.5 HP 3 phase AC induction motor with over load and no volt relay c) 32 A "C" series TPMCB 1 No d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CT's and selector switch 1 set.	SET	1			-
7	Supplying and laying following sizes one number PVC insulated, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. 3.5 x 25 sq. mm.	metre	10			-
8	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required. 3½ X 25 sq. mm	Each	8			-
Sub-Total of TUBE WELL						-

Sl . No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
	Sub Total of Plumbing Work					-
C	Electrical Work					
	Green Area Lighting					
1	Supply of Rectangular Integral 160W LED Floodlight, Extruded aluminium housing, designed to act as heat sink for efficient dissipation of heat –important for LED luminaires. Luminaire provided with heat resistant toughened glass. Extruded aluminium control gear compartment. LED specification – Make – CREE LED / Equivalent. Colour Temp. - 5700°K ±300°K optimum optical performance. The driver used is specially designed to have surge voltage, open/short circuit protections. Luminaire is provided with a mounting bracket fixed on die-cast aluminium end plates for aiming adjustment. Degree of protection - IP66	Each	8			-
2	supply of 9watt LED Bollard 650mm height, Cylindrical shape, integral decorative LED bollard with opal acrylic. Degree of protection: IP65. Luminaire is wired with inbuilt driver with 4.5kV surge protection	Each	75			-
3	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and <u>watering pipe etc. with charcoal and salt as required.</u>	Set	72			-
4	Supplying and laying double wall HDPE pipe having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc at a depth not less than 40 cm including excavation, dismantling of road if required and refilling the trench etc. as required.					
a	40 mm	metre	400			-
5	Supplying and laying following sizes one number PVC insulated, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.					
a	4 x10sq. mm. (pole to pole)	metre	400			-
b	3.5 x 25 sq. mm. (pole to pole)	metre	50			-
6	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required.					
a	4x10 sq.mm	Each	30			-
b	3.5 x 25 sq. mm.	Each	4			-
7	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core/ lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as required.					
a	4 x 10 sq.mm	Each	576			-
b	3.5 x 25 sq. mm.	Each	10			-
8	Supply and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ concealed, steel/ PVC conduit as required.					
a	3 x 1.5 sq.mm. (from Pole Junction box to Light fitting)	metre	42			-

Sl . No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
9	Design, Fabrication, Supply, Erection, Testing and commissioning of Powder coated, Weather Proof Double door type Feeder pillar fabricated out of 14 guage CRCA sheet steel in cubical, free standing, dust and vermin proof, with reinforcement of suitable size angle iron, channel, T -iron or flats as required. Feeder pillar shall be treated with all anti-corrosive process before painting as per specification. Feeder Pillar shall be suitable for 415V, 3-Phase, Four wire, 50 Hz supply complete with earth bus and lifting hooks as required in case of large panels.Approval shall be taken for each panel before fabrication. (All hardwares like nuts and bolts used shall be Galvanized and Zinc passivated)	Set	1			
	INCOMER					
	1No. 4 Pole 100A TPN MCCB (35 KA)					
	1No. 100A FP Contactor, AOM switch & Timers for 24 Hrs. setting					
	Metering & Indication					
	1 set of phase indicating lamps					
	BUS-BAR					
	1 Set of 100A TPN Aluminium Bus Bar with colour coded PVC Sleeves					
	OUTGOINGS					
	24 Nos. 32A SP MCB					
GPRS MODULE FOR AUTOMATION					-	
Sub -Total of Electrical Work						-

Sl . No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
D	Flag Post					
1	<p>The work is inclusive of design, supply erection of 30.5 M high mast shaft with allied works all complete</p> <p>SUPPLY PART Supply of 30.5 M high mast shaft in three sections with PU painting arrangement of mounting of Flag along with accessories such as head frame double winch ,ss wire Supply of foundation bolts manufactured from special steel along with nuts, washers, anchor plate and common template inclusive of RCC foundation (RCC & steel) works Supply of indian National flag of size 18ftx27 ft . (1 no.)</p> <p>Supply of 6 M high octagonal poles with its accessories. (2 nos.)</p> <p>Supply of non-integral floodlight luminaires type one nos 400 W MHT lamps and its control gear boxes.(2 nos.) Supply of single dome aviation obstruction lights of type BJAOL 1 with one nos no. 25 W Neon lamp (1 no.) Supply of outdoor stand mounted feeder pillar with 63A TPN MCB incomer, single dial time switch, 45A TP contactor for the automatic switching of luminaires, power tool</p> <p>ERECTION PART Construction of shallow foundation with M25 grade concrete for the high mast considering the safe soil bearing capacity at site as 10 T/sqmetre at 2 metre depth with Erection of the high mast with the help of suitable tools and plants, wiring of luminaires with all wiring materials like PVC insulated PVC sheathed flexible cable of suitable Provision of GI pipe earthing for High mast with 2.5 M long 40 mm dia GI Pipe including connection to High mast earth terminal with 25 x 3 mm GI flats with all Installation of the mast feeder pillar by grouting the stand in concrete. (2 Nos.)</p>	One set Complete	1			-
Sub total of Flag Post						-
E	Statue					
1	Statue:Design,Supply and installing of 15 feet marbel statue on Platform all complete approved by Engineer in charge.	Each	1			-
Sub total of Statue						-

Sl . No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate (In Words)	Amount (In INR)
F	Horticulture					
1	Plantation of trees and their maintenance for two year:- Planting of trees by the road (Avenur trees) in 1.2m dia. Hole and 1.2m deep dug in the ground and refilling the same with the extended earth mixed with manure or sludge in the ratio of 2:1 by 20% :1 part of stacked volume of manure after reduction by 8%), planting the saplings, flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts and maintaining the plants for two years. as per direction of engineer in charge..					
	Unique trees- well developed plant Min Ht- 3 meter like palm, ficus, cycus and similar types.	Each	191			-
2.1	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand: Hedges like Alife, Dorenta, Tikoma etc	Each	8000			-
2.2	Providing and planting maxican carpet grass in mount with soil preparation (with organic manure and plants protection insecticide) and escaping works. Up to 4 month maintenance.	Sqm	7000			-
3	Precast interlocking concrete grass paver blocks:Providing & laying factory made confirm technical specification of Bureau of Indian Standards 15658 of 2006 of heavy duty pavers resulting in consistent and uniform quality, rubber moulded, white cement based , pigmented block lacquer coating and cured through drying process mechanically vibrated and compacted precast interlocking premium concrete paver blocks in M40 grade , 60mm thickness of approved size, design and colour with providing and laying in position over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete. Coloured pigment precast interlock concrete blocks.	Sqm	900			-
	Sub-Total of Horticulture					-