



**SCHEDULE OF QUANTITIES FOR  
CONSTRUCTION OF ERV & FOAM TENDER SHED and MISC. WORKS AT TIKRIKALAN FOR  
BAHADURGARH TIKRIKALAN PIPELINE PROJECT**

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Item No.	Description of Items	Unit	Quantity
	<b>Earthwork in excavation</b> for Foundations of buildings, pipe supports,equipment foundation,dyke wall,drain,pit,trenches,manholes, etc., in Ordinary soils including Soft rock / Disintegrated rock, in both Dry and Wet conditions, <b>including Pumping and Bailing out Surface and Subsoil water, Shoring, Strutting, Slush removal, including backfilling</b> in all positions, in layers of 150mm at all heights and depths as per Drawing and Specifications wherever required , in Foundation pits and other places with excavated suitable surplus earth, including reclaiming from spoil heaps kept elsewhere including dressing and levelling,watering and mechanical compaction etc.,Transporting surplus unserviceable soil to Dumping yards upto a lead of 2Kms and spreading in layers and as per Specifications and direction of Engineer. The Measurement for payment shall be for the theoretical volume only and it shall be the volume of the block of the excavation having maximum bottom dimension of the foundation as per drawing and to the depth specified.		
	( The Contractor shall take into account in his rate, the provision for excess excavation for necessary working space,slope,steps etc., required for excavation,safety and other allied works and refilling the side slopes and working space etc)		
1	a) For depth upto 2.00 m	CUM	150
2	b) For depth beyond 2.00 m upto 3M	CUM	150
3	<b>Controlled earth filling</b> under floors and other places with special compaction to achieve dry density of 95% standard proctor density with excavated surplus earth including cost of excavation reclaiming from spoil heaps as per instruction of the Engineer at all heights/depths upto a lead of 2 KM transporting, depositing, compacting and dressing, trimming complete as desired in layers not exceeding 15 cms including watering, consolidating by mechanical means as per specifications and instructions of the Engineer.	CUM	150



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Item No.	Description of Items	Unit	Quantity
4	Supplying and <b>filling approved quality coarse sand</b> in foundation or under floor, trenches,pits and other places, at all locations in layers of 200 mm thickness including watering and ramming, all lead, lift and depth complete as per drawing and specification and direction of the Engineer	CUM	50
5	Supplying and injecting with approved quality chemical emulsion at the rates and concentrations as per IS 6313-1981 Part II for preconstructional antitermite treatment and creating a chemical barrier under and alround the column pits, foundation, wall trenches, plinth filling, junctions of wall and floor, expansion joints, apron, surrounding of pipes, conduits etc., along the perimeter of the building including all byeworks complete as per specification and direction of Engineer (only ground floor plinth area of the building will be measured for the payment in the following three stages. i) 50% after completion of the foundations ii) 30% after completion of the ground floor flooring iii) 20% after completion of all treatment works including ground floor doors & windows. Work to be executed by M/s Pest Control (India) or any other approved agency and specified guarantee for 10 (ten) years shall be furnished by the tenderer.	SQM	300



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Item No.	Description of Items	Unit	Quantity
6	Supplying and Laying <b>Plain Cement Concrete of Grade 1:4:8(M7.5)</b> with stone aggregate of 40mm down size (including Shuttering if required) in all levelling courses, in foundations, Floors,Pipelines, Pits,trenches etc., at all depths and height complete all as per Drawings and Specifications and instruction of the Engineer.	CUM	100
7	Supplying and Laying <b>Plain Cement Concrete of Grade M15</b> with stone aggregate of 20mm down size (including Shuttering if required) in foundations, Floors,Pipelines, Pits,trenches, drains etc., at all depths and height complete all as per Drawings and Specifications and instruction of the Engineer.	CUM	100
	Supplying and Laying of design mix, <b>Reinforced Cement Concrete of following Grades</b> (excluding Shuttering and Reinforcement) <b>at all depths and heights</b> in all types of Foundations, Footings, equipment foundations, pile cap,columns, pedestal,wall, lintels, ducts, beams, brackets, slabs of all shapes, sills, parapets,bands and any other works both in under ground and Superstructures all complete as per Drawings, Specification and instruction of Engineer.		
8	a) M-25 Grade Design Mix Concrete,using 20 mm down graded coarse aggregate.	CUM	150



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Item No.	Description of Items	Unit	Quantity
	Supplying and Fabricating and Fixing in position Steel Reinforcements at <b>all height and depth</b> positions including the Cost of transport, Straightening, Cutting, Bending, Cranking, Binding, Welding, Provision of necessary Chairs and Spacers, Preparation of bar bending schedule Drawings, getting the same approved etc., as per Drawings and Specifications and including Cost of binding wire, Labour etc., all complete for Reinforced Concrete. The chairs and spacer bars provided will not be Measured for payment.		
9	a) Thermomechanically treated (TMT) bars conforming to Grade Fe-415 of IS 1786-1985	MT	15
10	Supplying, Fabricating, Fixing <b>at all levels</b> and positions Steel embedments/ Inserts like Plates, chequered plates, angle, Channels, Anchor boxes, Bolt with nuts and washers Bolt caps, MSI pipe Sleeves including Threading etc., including two coats of approved quality Synthetic enamel paint over a primer coat on the exposed Surfaces wherever necessary, complete as per Drawings, Specifications and directions of the Engineer ( Jigs, Templates and Fixtures will not be paid separately except for fixing Anchor boxes)	MT	0.5
	Construction of Anchor holes or Anchor pockets <b>at all height and depth</b> of following Cross sections including necessary Shuttering and its removal, Cleaning and keeping it covered till Erection of bolts etc., as per Specifications, Drawings and direction of the Engineer.		
11	a) Cross section upto 125 mm x 125 mm.	RM	50
12	Roof screed with M-15 grade concrete (12 mm down graded coarse aggregate) with smooth finish and required slope(min. 25 mm thick & max. 125 mm thick) including mixing of water proof compound as per manufacturer's specification. payment for water proofing compound will be done under relevant item	CUM	15
	Providing BRICK WORK using best quality bricks with frog/indent, conforming to sub-class A as per IS:1077 having crushing strength of not less than 75 kg/cm <sup>2</sup> , in cement mortar of the following proportion in all types of foundation and superstructure at <b>all depths/heights</b> including facing, Dyke wall, bands, projections, pillars, parapets, ornamentals of any shape, cornices, all complete including cut work, curing, scaffolding,including filling of joints with CM 1:6 and racking of joints, etc., with all bye-works as per specifications, drawings and directions of the Engineer.		
13	a) In 1:6 cement mortar	CUM	25
14	Providing BRICK WORK 115 mm thick using bricks, having crushing strength of not less than 35 kg/cm <sup>2</sup> , in 1:4 cement mortar, including providing reinforcement at every 3rd courses with 2 MS bars of 6 mm dia. and distribution 6 mm dia at 30 cm centres to centres in all Height and depth , as per drawing and as directed by engineer including filling of joints with CM 1:4 and racking of joints.(Reinforcement will not be paid separately)	SQM	15
15	Providing 15 mm thick cement plaster 1:4 (1 cement : 4 sand) smooth finish, at all depths and heights, on faces of walls, pillars, projection, bands, cornices, fins, sills, etc., including raking out joints if any left out, necessary dabbing, curing, scaffolding, providing chicken mesh at junctions of columns,beams etc.,complete at all heights as per specification and drawings.	SQM	350
16	Providing 6 mm thick cement plaster 1:4 (1 cement : 4 sand) to ceiling of slabs, chajjas including drip course, bands, beams, columns, loft slabs, staircases, and any other location at all heights and depth wherever required with all bye works dabbing, curing, scaffolding, including providing chicken mesh at junction of columns,beams etc.,complete at all heights and depth as per specification and drawings.	SQM	70



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Item No.	Description of Items	Unit	Quantity
17	Providing and applying two coats of acrylic washable distemper of approved quality and shade at all locations over and including a coat of approved primer for wall surfaces, ceilings, etc., including preparation of base,scaffolding complete with all bye works, specification and direction of the Engineer	SQM	300
18	Whitewashing three or more coats with approved lime at all heights and Depth with all byeworks including scaffolding complete as per specifications	SQM	350



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Item No.	Description of Items	Unit	Quantity
19	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :15 mm wide and 15 mm deep groove.	RM	500
20	Providing and applying two coats of external emulsion paint of approved quality and shade, at all height and depth over and including a priming coat over wall surface, bands, parapet etc., including preparation of surface complete with all bye works complete as per specification and direction of the Engineer.	SQM	350
21	Providing and applying Birla White Wallcare Putty on plastering - SF on internal walls for smooth and dry surface essential for painting, after removing all loosely adhering material from the wall surface. The substrate should be clean, free from dust, grease and loose materials. Dry and absorbent surfaces should be moistened with sufficient quantity of clean water. Apply the first coat on already moistened wall surface from bottom to upward direction uniformly. After drying of first coat of putty just rub the surface gently with west sponge or rub the surface very gently with the putty blade in order to remove the loose particles. Allow the surface to dry for atleast 3 hours and then apply second coat of putty. Leave the surface to dry completely. After drying of second coat remove marks if any with the help of moist sponge or rub the surface very gently with the putty blade. Leave the surface to dry preferably for overnight.The total thickness of the coats should be limited to maximum 1.5mm.	SQM	350
	Providing hard core with hard granite stone boulders at all height and depth including laying, packing, filling interstices with good quality spalls, dry and wet consolidation with mechanical means, binding with good quality moorum/sand(cost inclusive) with all bye works complete as per specification and instruction of the Engineer (Consolidated thickness will be paid).		
22	b) for floorings	CUM	15
	Providing and laying granolithic flooring with total thickness as given below, laid monolithically over base concrete in panels with a maximum panel area of 2.50 sqm. at all locations and heights including skirting,treads of steps, nosing, landing slab etc., with under bed consisting of plain cement concrete 1:2:4(1 cement:2coarse sand:4stone chips, 12mm and down) and topping of mix 1:1:1(1cement:1medium sand:1fine stone grit upto 3mm size), supplying and fixing 1.5mm thick aluminium strip for full depth, chequering in floor finish inclusive if required, rounding, sloping,curing, finishing,preparation of slabs, steps, etc., all as per specifications, drawings and directions of the Engineer.		
23	a) 25mm thick with 19mm under-bed and 6mm topping mixed with non-metallic floor hardener as per manufacturer's specification and instructions(Fosroc, Sika or equivalent)	SQM	25
24	Providing and laying 300x300x6.5mm mimimum thick tiles & conforming to IS:777 of approved colour and design anti-skid ceramic tiles of make like kajaria, johnson, somany etc. at all levels and locations using approved first quality tiles in flooring, dado, skirting etc.as shown in the drawing laid over and including 20 mm cement mortar bed 1:4, joints filled with white cement mixed with matching shade of pigment etc. complete with all byeworks as per specification and direction of Engineer	SQM	30



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Item No.	Description of Items	Unit	Quantity
	Providing & laying mirror polished kota stone for flooring, steps, staircase and other places as shown in the drawing over & including 20 mm thick mortar bed (1:4) curing and all bye-works complete		
25	a) minimum 20 mm thick polished kota of approx. 300 mm x 600 mm size for floors	SQM	25
26	Supplying and laying Plinth Protection around buildings etc consisting 75mm thick hand broken bricks in base and 75mm thick of PCC M-15 on top including necessary finish complete in all respect.	SQM	75
	Supplying and fixing exterior grade factory made block board flush door shutters bonded with phenol formaldehyde hot pressed (solid core) including non standard size, single or double hung in doors, wardrobes, cupboards, conforming to IS 2202 specification from approved manufacturer with all bye works complete as per specification and drawing, at all locations with necessary sand blocks, cleats wherever required but excluding the cost of fittings & their fixing. The shutters shall be supplied with teakwood internal edge lipping from facatory and 6mm external edge lipping shall be provided at site		
27	a) both faces decorative laminated finish , 35 mm thick (including heavy duty brass hinges with necessary screws & 6 levers godrej mortice dead lock with grip handle)	SQM	15



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Item No.	Description of Items	Unit	Quantity
	Providing & fixing Godrej Mortic dead lock with back plate, duplicate keys & other fixtures complete with all bye-works as per specification and instruction of the engineer		
28	a) with 2 levers (depth 65 mm)	set	2
	Supplying, fitting and fixing white/colour glazed vitreous china wash basin of superior quality of size 550x400mm (HSW No. 10.001 or approved equivalent make with ISI mark) having single or double holes with 32mm CP brass waste fittings, 32mm CP brass bottle trap, 15mm PVC inlet water pipe connection, painted CI brackets etc. all complete.		
29	white/colour shade	EACH	2
	Providing and fixing white/colour glazed vitreous china pedestal type water closet (EWC) of superior quality 40cm high conforming to HSW No. 20.007 or approved equivalent make with ISI mark, double trap syphonic pattern, 'P' or 'S' trap, with cistern with cover HSW No. 21004 or equivalent approved make with ISI mark having 10 litres capacity with ceramic syphon and fittings (HSW or equivalent make), white/colour colour solid plastic seat cover & lid of superior approved quality, CP brass bar hinges, screws, bolts, rubber, buffers 15mm dia CP inlet waste pipe connection and concealed CP brass stop cock, fixing EWC to floor with necessary TEAK WOOD block & brass screws, all complete as per drawings, specifications and directions of the Engineer.		
30	white/colour shade	EACH	2
31	Providing and fixing white/colour glazed vitreous china flat back, front lipped standing urinal size 610x400x380mm of superior quality HSW No. 60.002 or equivalent approved make with ISI mark in range or singly with push type CP flush valve, 15mm dia CP brass spreaders, and 32mm dia PVC waste pipe upto floor all as per directions of the Engineer (partitions excluded):	EACH	2
32	Providing and fixing box type half-round white glazed channels 100mm size with dead and outlet ends of approved make, set in cement mortar 1:3 and joints finished with white cement.	RM	5
	Providing 5.5mm thick polished plate glass mirror of approved make with 6mm thick asbestos sheet backing including fixing to wall by means of rawl plugs, all complete		
33	a) 600 x 450 mm size	EACH	2
34	Supplying and fixing CP brass soap container (Tilting type)	EACH	2
35	Providing and fixing recessed toilet paper roll holder including roller white/colour glazed vitreous china, HSW No. 40.025 or approved equivalent make	EACH	2
36	Providing and fixing 100 x 75 mm HCI floor/Nahani trap with CP hinged heavy brass grating to be fixed in PCC M15 with 20mm down size aggregate and made water tight	EACH	4





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Item No.	Description of Items	Unit	Quantity
	Providing, laying and jointing stone ware salt-glazed pipe in CM 1:2 including embedding in PCC mark M-10, necessary excavation, & backfilling complete as per specification and depth upto 1.5m (average) (PCC shall be paid separately).		
37	a) 100 mm dia	RM	10
	Supplying, fitting and laying GI pipes of heavy quality ('C' class) of Indian Tube Company/ Zenith or equivalent approved make with all necessary fittings such as bends, tees, elbows, reducers, unions (flanges for pipe size above 50mm), nipples, plugs, clamps, fixtures, etc., including necessary earthwork, painting, etc., complete as per specification (including concealing in walls/floors).		
	(i) exposed		
38	a) 25 mm nominal bore	RM	80
39	b) 15 mm nominal bore	RM	100
	(ii) Concealed (with bitumen coating and gunny rapping)		
40	a) 25 mm nominal bore	RM	80
41	b) 15 mm nominal bore	RM	100
	Supplying, fitting and fixing superior quality gun metal gate valve (full way) of "LEADER" make or equivalent approved with ISI mark		
42	b) 25mm dia	EACH	2
43	Providing and fitting CP pillar tap of superior quality of approved make of jaguar or equivalent with ISI mark (including connecting flexible PVC connecting pipe)	EACH	2
44	Providing and fitting 15mm dia CP brass bib cock of superior quality of approved make with ISI mark	EACH	6
	Supplying, jointing, cutting and fixing in position PVC rain water down pipes of following diameters, including all necessary specials like bends, shoes, tees, clamps etc. jointing with spun yarn, red lead and cement mortar 1:1, painting two coats over a coat of primer, etc., complete as per specifications, drawings and directions of the Engineer.		
45	a) 100mm dia	RM	10
46	Construction of soak-pit as per the details given in enclosed drawing , including all materials, labour, excavation, backfilling and other bye-works, complete in all respects	EACH	1
47	Construction of Septic Tank as per the details given in enclosed drawing , including all materials, labour, excavation, backfilling and other bye-works, complete in all respects	EACH	1
48	Providing and fixing in position gypsum board false ceiling with approved G.I Frame work and hangers including openings for lights, air conditioning grills, fire detectors, nozzles, recess for hanging blinds,etc. as per specification and description complete. Rate shall include vertical as well as horizontal surfaces as per design drawing and actual 'seen' surface of horizontal and vertical will be measured and paid for. Layout and design of false ceiling with cutouts & decorative mouldings etc.to be approved by MECON.	SQM	50



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Item No.	Description of Items	Unit	Quantity
	Providing and laying water proofing treatment with torchable polymeric membrane(incorporating fibre glass tissue and 50 micron HMHDPE as center core)/multiplas'F' or equivalent of approved make and following thickness over roof and other places at all levels and locations, including all necessary bye works like base surface preparation with bitumen emulsion rounding the corners/ends/sides of dissimilar materials, sealing the joint/ends and topping with hot blown bitumen, etc., all complete as per manufacturer,s specifications, drawings and direction of the Engineer. Ten years gurantee shall be given by the agency.		
49	a) with 4kg/sqm membrane over roof slabs, etc.,	SQM	50
	Providing and fixing SINTEX or equivalent approved HDPE water tank with PVC fittings for inlet, outlet, Over flow, scour float valve, connections of required size and dia. Including connections and hoisting/fixing the same tank on roof and other places at all heights with all bye-works complete as per manufacturer's specification and direction of the Engineer. (Support of tank on brick/RCC/PCC will be paid under relevent items)		
50	a) 1000 litres capacity	EACH	4
	Providing and fixing 20 mm thick white Marble slab of approved type, shade and texture , both side mirror polished including cutting parent surface/structure finishing the same at all necessary bye-works to have complete finished work all as per drawing, as directed and upto satisfaction of engineer.(marble slab shall be of single piece for each partition of urinals)		
51	a) for urinals	SQM	5



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	Providing damp proof course over plinth with cement concrete grade 1:1.5:3 using aggregate of 10 mm and down graded and mixing approved water proof admixture with cement as per manufacturer's specification including necessary formwork/ shuttering, one coat of hot bitumen of grade 30/40 over the top surface of Damp proof coarse and all necessary byeworks complete as per specification, drawing and as directed by the Engineer.		
52	40 mm thick	SQM	15
53	Dismantling of Brick / Stone Masonary/ PCC work at all height and depth including disposal of rubbish at the place shown by Engineer -In-Charge.	CUM	10
54	Dismantling of RCC work at all height and depth including disposal of rubbish at the place shown by Engineer -In-Charge.	CUM	10
55	Making khurras 45 x 45 cm with average minimum thickness of 5 cm cement concrete 1:2:4, 1 cement, 2 coarse sand and 4 stone aggregatesof 20 mm down graded over PVC sheet 1m x1m x 400 micron, finished with 12mm cement plaster 1:3, 1 cement and 3 coarse sand and a coat of neat cement rounding the egdes and making and finishing the outlet complete.	EACH	4
	Supplying, fabricating and fixing in position, pressed steel frames for doors manufactured from commercial steel sheet 1.2mm thick including provision of hinges, lock jambs, beads, brace ties with 4.00mm pressed mild steel welded adjustable lugs with split tail end, mortar guards, lock strike plate, shock absorbers, etc. and painting with two coats of approved synthetic enamel paint over primer coat, as per drawing and instructions of the Engineer, including provision and filling with PCC M-10C		
56	a) For profile B	RM	26
	Construction of brick masonry inspection chamber with full bricks, in CM 1:5, provided with a light duty CI covers conforming to IS:1726 neatly finished including 12mm thick plastering on both faces in CM 1:6, rounding, finishing, excavation, PCC bedding etc., all complete as per specifications and drawings.		
57	Internal size 600x600x600mm deep	EACH	8
58	Providing yard gully trap 150x100mm with CI grating 150 x 150mm and water tight light weight CI covers conforming to IS:1726 of size 300x300mm including half-brick masonry in CM (1:4) plastered neatly with CM (1:4) on both faces, 100mm thick PCC bed of mark M-10, necessary excavation, complete as per direction of the Engineer.	EACH	4
59	Providing and laying PCC Gola 75 x 75mm in cement concrete 1:2:4, 1 cement, coarse sand and 4 stone aggregates 10mm and down graded including finishing with cement mortar 1:3, 1 cement and 3 fine sand as per standard design in 75 x 75 mm chase.	RM	10
60	Excavation For depth b/w 3m & 4m(Complete description is as per ITEM NO. EW-1)	CUM	50
	Providing, Fixing and Stripping of Shuttering of good quality plywood or steel plate on steel frame for all types of Structures not covered in respective items <b>at all height and depth</b> including Centering / Scaffolding, all complete as per Drawings, Specifications and directions of the Engineer.		
61	a) For Structures at all depths and heights.	SQM	200
	<b>Supply, fabrication and erection of steel structures:</b>		



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62	Preparation and supply of fabrication drawings, material indents, bolt lists, Bill of Materials, fabrication of structures such as columns, column bracing, roof Rafter, rafters bracing members, crane girder, crane rails, prulins/Runner, gutters, downcomers, Pipe supports, platform, Handrails ,crossover, grating ,chequered plate ,staircase etc. including supply of raw material, transportation and delivery at site, unloading, storage and handling at site, site assembly and finally erection of structures at appropriate locations, including application of one coat of primer at shop and second coat of primer and two coats of finishing paint at site as per painting specification, all works to be completed in all respect as per Specification ,scope of work and drawings	MT	8
	Providing & fixing anodized of minimum anodic coating of grade AC15, aluminium hardware fittings with approved quality and shade as per IS specifications/as approved by engineer to woodwork with cadmium plated MS screws, suitable sockets in masonry/concrete surface if required including all bye-works complete as per specification, drawing and instruction of engineers (fittings shall not be paid separately in composite items which specify inclusions of fittings)		
	a) Tower bolts (with barrel & bolts of extruded section -		
63	(i) 250 mm x 12 mm (bolt size)	set	2
	b) Sliding door bolts including locking arrangement(alldrop)		
64	(I) 250 mm long x 16 mm dia rod	set	2
	c) Grip handle without back plate of approved IS brand		
65	(i) 150 mm long	each	2
	d) Tower bolts (with barrel & bolts of extruded section -		
66	(i) 150 mm x 10 mm (bolt size)	set	2
	e) Grip handle without back plate of approved IS brand		
67	(i) 100 mm long	each	2
	f) floor stopper of double type for door shutters up to 40 mm thick		
68	(I) rubber - double type	each	2
69	Erection- of BM non integral FLP in all respects this includes carrying out all the wiring work and earthing work.	Set	6
70	Supply, installation, testing, commissioning of lighting fixtures of shed complete with mounting bracket non flame proof, well glass fixture (type HPK 225/HPL 250 WB of M/S Phillips make or Equivalent). 225 W Lamp or 250 W Lamp including 2.5 sqmm Cu Wire & 1.5 sqmm Cu wire for Earthing HR, PVC insulated multistrand Cu conductor wires/cables.	Set	6
	Supply of all materials and point wiring using 2 x 2.5 sqmm + 1 x 1.5 sqmm PVC insulated copper with in PVC heavy gauge concealed /surface conduits of required size laid on wall/ceiling. The scope of work also includes supply and fixing of GI switch boxes, Modular switches of approved quality and Brand, necessary accessories like Metal Junction boxes and Pull boxes, Ceiling roses, bends etc and all connected works as per the specification and direction of EIC. Wiring of the same.		
71	<b>Light points controlled by one Decorative switch</b>	Each	10
72	<b>Erection-LP Surface/recess mounted complete in all respects alongwith all the earthing and wiring works</b>	Each	10
73	<b>Ceiling fan point controlled by decorative type switch and Electronic regulator .</b>	Each	4
74	<b>Exhaust fan point controlled by one 6A control switch .</b>	Each	2



**SCHEDULE OF QUANTITIES FOR  
CONSTRUCTION OF ERV & FOAM TENDER SHED and MISC. WORKS AT TIKRIKALAN FOR  
BAHADURGARH TIKRIKALAN PIPELINE PROJECT**

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SCHEDULE OF RATES.RATES ARE TO BE QUOTED ONLINE ONLY.**

Item No.	Description of Items	Unit	Quantity
	Supply of all material and point wiring for power joints with 2X 4.0 sqmm + 1 X 2.5 sqmm PVC insulated copper cable in Heavy gauge PVC conduit laid on wall ceiling.The scope of work also includes supply and fixing of sockets,Decorative Modular switches,MCB isolaters,and all necessary accessories like junction boxes,Pull Boxes,Bends,Ceiling Roses,GI Mounting Box etc. and all connected works all complete as per specification and direction of EIC.		
75	Erection-Exh. Fan point 300mm in all respects including wiring works	Each	2
76	<b>6 Pin 6/16Amp , socket outlet with control switch and socket.</b>	Each	5
77	<b>Erection ofSocket outlet in all respects.</b>	Each	5
78	<b>20Amp - 240Volt industrial type socket with MCB and plug top .</b>	Each	2
	Supply & Installation of following ,for TELEPHONE NETWORK.		
	Rate quoted for the following items shall be including supply ,laying,connecting,testing and commissioning of telephone points with ferrule/tag marking of telephone points to lay from DB(krone connector) to receive with appropriate size of cable as per line diagram and specification with all necessary fittings to be laid through PVC pipe all complete.		
79	Erection-Steel Indus. Socket in all respects .	Each	2
80	<b>a)Socket for Telephone(Paino Read type) &amp; LAN sockets with telephone cable and LAN cable including power supply switch and socket</b>	EACH	2
81	<b>Erection-Socket for Telephone socket in all respects.</b>	Each	2
82	Supply installation ,connection ,testing and commissioning of 415/240V lighting/power panel ,surface recess mounted type with hinge cover,sheet steel enclosure.Complete with wiring,indication lamps etc and including all labour and material.	EACH	2
83	Erection of Surface /Recess mounted LT panel in all respects.	Each	2
	<b>Zincalume high tensile colour coated sheet on roof &amp;Sides:</b>		
84	Preparation of sheeting drawings, procurement of 0.5mm TCT zincalume high tensile colour coated steel sheets (fy=550Mpa) having profile depth 28-32mm and pitch of 186-250mm with zincalume coating 150gsm and 35µ super polyester colorbond XRW quality paint system or equivalent, compatible flashing, fittings and fixtures, transportation to site, cutting of sheets to required shapes and sizes and erecting them on roof and sides using Galvanised self –drilling, self-tapping fasteners at proper position, all work as per Specification and drawings (net laid area to be measured).	Sqm	300
	Supplying and laying RCC hume pipesof following sizes in road crossing for drains,cables etc ...jointing of pipes with CM1:1 and filling the space with CM1:1 and encasing the pipes with PCC M15 as per drawings,specifications and directed by the Engineer. (Earth work,Road cutting,PCCM15,shuttering will be paid under relevant items) Protection of pipe openings till handover is the responsibility of the contractor.		
85	a)150mm dia	RM	150
	Providing and fixing precast kerb stones made of PCC grade M15 using 20mm down size course aggregate curing, of following size including making necessary casting yard, form work, machine mixing, compacting, finishing, submerged curing, conveying from casting yard to site of placing and laying (including excavation) in position to correct line curve, levels, plumb over 20mm thick bedding in CM 1:6, jointing & pointing in CM 1:4 where ever required, painting with 2 coats of yellow/black approved quality (Asian , Berger or ICI make) paint for exposed surface etc., all complete and as directed.		
86	a) 500mm x 150mm x 450mm	RM	80
	<b>Providing and fixing Chain link fencing</b>		



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Item No.	Description of Items	Unit	Quantity
87	Preparation of all fabrication drawings including all bill of all material for supply of structural steel of various sizes as per the details,fabrication,erection and fixing of 10 SWG chain link fencing with structural angle frames of 40 x 40x6mm angle sof frames size 1.5 x1.8 mtr having horizontaland vertical bracings with the help of 50 x6mm on either side and fixed to the angle iron posts of size 75 x75x6mm placed at an interval of 3 mtrs c/c and also to be fixed at an level of +300mm from the adjacent Road level.Rate to include Grouting the structural angle posts upto to depth of 600mm from the ground level with M-15 concrete inside the pit having size 300 x 300 x600 mm.	SQM	750
88	GRATINGS:Preparation of all necessary fabrication drawings including bill of material supply of steel consisting of flats of size 25x6 and 25x3 straitening of raw steel as required, fabrication of MS gratings as per drawings (including preparation of supplementary sketches and detailed bill of material) including all other consumables cleaning of surface to SA 2.5 supply and dip painting as specified in item ST1 above, loading trsportation and unloading and delivery at erection site, erection, alignment and welding including rectification if any at site all as per technical specification and drawing, touch-up paintings including supply of paint	MT	1
	Supplying and laying RCC hume pipesof following sizes in road crossing for drains,cables etc ...jointing of pipes with CM1:1 and filling the space with CM1:1 and encasing the pipes with PCC M15 as per drawings,specifications and directed by the Engineer. (Earth work,Road cutting,PCCM15,shuttering will be paid under relevant items) Protection of pipe openings till handover is the responsibility of the contractor.		
89	a)300mm dia	RM	20
	Supplying and laying GI pipes of medium class of Indian Tube Company/ Zenith or equivalent approved make conforming to IS 1239 with all necessary fittings such as bends, _unions (flanges for pipe size above 50mm), clamps, fixtures, etc., including necessary earthwork, painting, threading etc., complete as per specification (including concealing below floor/ ground).		
90	a) 100mm nominal bore	RM	50
91	Supply and Insertion of Heavy duty MS Pipe 4" pipe shall be conforming to Table -1 of IS 1161:1998.The pipe should be provided with test certificates and other test report etc.It should be of Approved make.	RM	160
92	Vertical MS pipe Boring Works(upto 40 m) including arrangement for all the necessary machinery as required for the purpose alongwith the labour cost.Boring works is required for insertion of MS pipes vertically inside the earth for water harvesting pit.Boring works also includes any other material/service required to carry out the job.	RM	170
	The quantities indicated are estimated values and hence are approximate. Final payment will be made based on actual quantities to be certified by the Purchaser.		
	The cost of MS bolts (permanent and service), washers, electrodes, putty, gases, cost of straightening the raw materials, cutting of flats from plates and providing splices, paints, tools, plants, etc., as required for the work shall be deemed to be included in the quoted rates.		
	All handling and transport charges of raw materials and fabricated structures including double handling, as required, for completion of work in accordance with		
	All accessories like MS tower bolts, MS Pivot, MS Wheels, MS Tee section, locking arrangement etc. shall be measured by weight only.		
	Contractor shall ensure proper alignment and smooth operation of Gate		



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Item No.	Description of Items	Unit	Quantity
	Providing & erecting in position precast concrete trench cover units of specified sizes and thickness using reinforced cement concrete of grade M30 with 20 mm down graded coarse aggregates including formwork to give fair and smooth finish,making necessary casting yard ,machine mixing ,finishing,submerged curing ,conveying from casting yard to site placing and fixing in position to correct line in curve,levels,plumb casting, vibrating using form vibrators,making slots,storing, providing lifting arrangement, loading / unloading transporting, load testing etc., complete but excluding cost of reinforcement, all as per drawings,specification and as directed by the Engineer.		
93	a) Unit weight upto and including 75 kg	CUM	2
94	MICROGRADING:Carry out micrograding of existng surface in areas specified by EIC,near facilities,besides roads and as directed by HPCL.Scope of job includes leveling of existing surface including carting of earth from mounds,and undulations etc to low lying areas,spreading of existing/imported earth and compaction etc complete.the finished surface shall be level with no undulations or depressions.the max. depth of cutting /filling will be around 300mm.Scope of job doesn't include supply of earth.	SQM	1000
95	MURRUM/RED SAND FILLING:Supplying,spreading and filling,watering and compacting with 8/10 MT roller in layers of 50mm with good quality imported Murrum/Red sand in the roads/driveways side berms and as directed bt EIC.The party has to make all the necessary arrangements.	SQM	1000
<b>Note:</b>	<div>(i) The bidder must indicate currency(ies) against each quoted item of the</div> <div>(ii) The total amount shall also be given by the bidder in the quoted</div> <div>(iii)bidder must submit their price inclusive of all applicable taxes &amp; duties, Transportation charges, Insurance incl. Transit insurance etc.</div>	<b>Total Amount of quoted price (inclusive of all applicable taxes &amp; duties)</b>	