



ISG- BANGALORE

PROJECT : CHP & AHP for 2 X 800 MW Yermaras Thermal Power Station, Unit 1 & 2, RPCL- Raichur, Karnataka

Customer : M/s Raichur Power Corporation Ltd.



Work : Civil Works for Crusher Houses & MCC Buildings.

**(6) UN-PRICED BID
FORMAT / BOQ**

Tender Enquiry No: 88/14/6011/RSB
(Package-1)

Vol -1 : Commercial Documents. Section:6

NOTE : -

- 1) Please **DO NOT** mention the rate/price in this format. Write **“Quoted”** against each & every item in column (5) , (6) & (7) with **signature & official seal in each & every page.**
- 2) Bidders have to enclose this Un-Priced bid format/BOQ complete in all respects as mentioned above in a separate sealed envelope superscribing as “ Un-Priced Bid Format/BOQ” on the cover and submit the same alongwith the “Techno-Commercial Bid”.
- 3) Bidders have to write the WCT considered in % (percentage), NOT the amount.
- 4) All the columns of this Un-Priced Bid Format as explained in sl.no. (1) & (2) above and no column should be left blank. Incomplete offers are liable for rejection.
- 5) The quantities of various items mentioned in this tender are approximate and may vary upto any extent or may be deleted altogether and the contractor has no claim on this account. The quoted rate of each item shall remain firm as long as the variation in the total value of work executed under this contract including extra items if any, remain within plus or minus 30 (thirty percent)of the contract value as per design considerations. The tenderer has to keep their quoted rates firm up to variation of minus 30% on the basic contract value. In case the actual value of executed work on completion of work becomes less than 70% of the basic contract value then the following method shall be adopted. The actual value shall be raised by 7% of executed value subject to the condition that total value work executed plus increase by 7% as above shall be limited to 70% of the basic contract value. The rate quoted shall be firm irrespective of any upward variation in the contract price.



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Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
I	EARTH WORK: Earth work In excavation, backfilling and disposal including necessary manpower, materials, equipment, loading, transportation, unloading, dewatering etc as per specification, drawing and as directed by engineer- in-charge for the following.					
1	Earth work in excavation in all types of soil including laterite, murrum etc. which can be excavated by any means including setting out layout, levelling, draining and pumping out water "other than water below ground water table", clearing all grass, vegetation etc. dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of excavated materials within a lead upto 500 m, spreading/levelling of disposed materials etc all complete for following depths below ground level.					
A	Depth from ground level but not exceeding 3 m	CUM	27964			
B	Depth exceeding 3 m but not exceeding 5 m	CUM	14687			
C	Depth exceeding 5 m but not exceeding 7 m	CUM	4594			



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2	Earth work in excavation in soft rock (rock with RQD less than or equal to 25% or uniaxial compressive strength is less than or equal 30 MPa) including weathered rock, highly disintegrated rock etc. which can be excavated by any means like crow bar, pick axe, hydraulic rock breaker attachment with excavator machine etc but does not require chiselling or blasting, scope including setting out, levelling, draining and pumping out water "other than water below ground water table", dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of excavated materials within a lead upto 500m, spreading / levelling of disposed materials etc all complete for following depths below ground level.					
A	Depth from ground level but not exceeding 3 m	CUM	100			
B	Depth exceeding 3 m but not exceeding 5 m	CUM	100			
C	Depth exceeding 5 m but not exceeding 7 m	CUM	100			
D	Depth exceeding 7 m but not exceeding 9 m	CUM	4594			
E	Depth exceeding 9 m but not exceeding 11 m	CUM	4722			



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II	BACK FILLING Including all labour, tools and plants, compaction, testing etc. complete in all respect as per drawing, specification and direction of engineer in charge.					
1	Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 200 mm thickness using/with selected materials directly from excavation within 500m initial lead and compacted as specified including watering, ramming/compaction by manual/mechanical means, dressing etc all complete for the following.	-				
A	Each layer compacted so as to achieve at least 95% maximum dry density as per IS-2720 (Part-VII)	CUM	39940			
2	Extra over SUB ITEMS OF ITEM I & II above "for carriage of excavated earth/selected materials" "for every additional 1 km or part there-of" beyond an initial lead 500m mentioned in respective item.	CUM	16821			
3	Supplying and filling approved sand upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted so as to achieve at least 90% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	CUM	1184			

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III	CONCRETE WORKS: Providing and placing concrete work including cost of labour, materials and equipment for handling, transportation, batching, mixing, placing, vibrating and curing, testing (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like batching plant, transit mixer, concrete pump, vibrating, curing etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.					
1	Concrete of grade M15 (PCC) (1 part cement, 2 part sand, 4 parts of 40 mm and down graded aggregate by volume) for back filling purpose - as per the engineering instruction at any depth below finished floor level etc.	CUM	10			
2	Concrete of grade M15 (PCC) (1 part cement, 2 part sand, 4 parts of 20 mm and down graded aggregate by volume) as lean concrete, levelling course , mud mat under and around foundations/floors at any depth below finished floor level etc.	CUM	693			
3	Providing and laying Design Mix cement concrete (RCC) conforming to IS:456 & IS 10262-2009 for reinforced concrete works with coarse sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors, superstructure etc at any level below and above finished floor level, any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to IS:9103 (latest) to achieve required slump in concrete or any type of admixture required for the improvement of concrete quality complete as per specification & drawing for the following.					



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A	M20 Grade - MINIMUM CEMENT CONTENT 340KG/CUM	CUM	100			
B	M25 Grade - MINIMUM CEMENT CONTENT 375KG/CUM	CUM	4468			
C	M30 Grade - MINIMUM CEMENT CONTENT 400KG/CUM	CUM	12500			
4	Providing and encasing of structural steel member with concrete using nominal aggregate size of 12.5mm down. Encased member shall be wrapped with welded wire mesh/chicken wire mesh (0.9mm dia wire and 19mm X 19mm mesh size) with proper lap etc. complete as per specification for the following grades.					
B	M25 grade	CUM	200			
IV	FORM WORKS: Providing, fixing, aligning, centring and removing formwork at any elevations for all structures, as per specifications and including all labour, material, staging, scaffoldings and centering and any shape and size complete including pockets/shear key etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.					
1	Fairface form work with good quality water proof ply wood of required thickness and smooth surface below/on finished ground floor level for foundations, footings, base of columns, walls, columns, beams, mass concrete, trenches, underground tanks, arches, dooms etc.	SQM	26816			



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2	Fairface form work with good quality water proof ply wood of required thickness and smooth surface above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, overhead tanks, arches, dooms etc. for all heights.	SQM	12053			
V	REINFORCEMENT (Material supplied by BHEL and issue to contractor on free issue basis.)					
1	Receiving/taking delivery directly from transport agency or BHEL stores, transporting, storing, straightening, cutting, bending, placing in position at any level, binding in position of steel reinforcements of TMT steel of grade Fe-500 confirming to IS:1786 including cost of binding wire, labour, scaffolding, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer.	MT	3155			
VI	WATER PROOFING WORKS: Water proofing works including all labour, material, equipment, transportation, handling, curing, sampling, testing etc at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Providing and laying underbed with cement concrete (M20 :1:2:4 - with 12.5mm nominal size graded aggregate) of minimum 50mm average thickness including preparation of surface, batching, mixing, leveling etc. all complete.	cum	266			



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2	Providing and applying polyurethane based water proofing treatment with one coat of polyurethane based primer or any other equivalent material based primer with an application rate of minimum 6 sq.m per litre and minimum two successive liquid coatings of high solids content urethane pre-polymers or equivalent material based finish coats as per relevant IS/ASTM standards to form an elastomeric membrane with overall dry film thickness 1.5 mm subject to minimum 800 gm/sqm/coat application rate. Item includes surface preparation, polyester scrim cloth /fabric over first coat as reinforcing layer and flush filling the crackes with paste of polyurethane based crack filling compound and white cement in a ratio of 1:2 or polymerised mastic (Bitumen mixed with inert filler) etc all complete as per specifications and directions of engineer in charge.	SQM	2657			
3	Providing and laying cement concrete chequered flooring tiles of 22 mm thickness and size 250x250 mm / 300x300 mm conforming to IS 13801 with 8 mm thick 1:4 cement mortar over the top most layer of roofing treatment in pathway and entire equipment area with fine joints including sealing of joints (silicon/elastomeric sealant) etc all complete. (Water proofing paid elsewhere)	SQM	306			



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4	Wearing coarse with 40mm thick PCC of M20 (using 10mm size aggregate) cast in panel of 1.2m X 1.2m size and reinforced with galvanised chicken wired mesh including sealing of joints using non bitumastic sealant/elastomeric compound.	SQM	2657			
VII	MS EMBEDMENTS: Embedments including all labour, material, equipment, transportation, handling, receiving from structural agency, weighing etc. at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Supplying at site, storing, cutting, bending, fixing rungs of MS plain bars of various dia. complete in all respect as per specification/drawing and direction of engineer in charge	Quin tal	5			
2	Taking delivery from other agency / BHEL store, transport to work spot, fixing of anchor bolts/foundation bolts of various diameters as required etc. including scaffolding, setting in position, templates etc and handed over the nuts & washers back to structural agency after erecting the bolts etc. all complete.	MT	8			
VIII	Receiving from structural agency, storing, and fixing of mild steel embedments, inserts, Stools, angle pieces, plates of dimensions as required etc. including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete. Cost is exclusive of material which is issued to contractor at free of cost.	Mt	20			



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1	Supply and fixing of GI pipe sleeves as required etc. including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete. Cost is inclusive of all materials, labor, transport etc. complete	Kg	400			
IX	GROUTING: Grouting including all labour, material, equipment, roughening surface, cleaning, ramming, curing etc. at any level unless otherwise specified as per specification, drawings and as directed by engineer - in - charge.					
1	Providing & grouting of pocket holes, pipe sleeves and under base plates of structural steel work/ machinery/ pipe supporting structures including roughening of surface, cleaning, ramming, curing, etc. all complete with Conbextra GP-2 or equivalent. (Cost of material and cleaning of the pockets by compressed air shall be in the scope of the contractor).	CUM	4			
X	DOORS, WINDOWS, VENTILATORS, LOUVERS: Doors, windows, ventilators, louvers, roof ventilators, rolling shutters, partitions including all labour, material, equipments, transportation, handling, preparation of working drawings etc. at any level as per specification, drawings and as directed by engineer - in - charge.					



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1	Providing and fixing Steel doors shutter with frame of hinge/sliding type, frame shall be fabricated with 1.6mm thick MS plate conforming to IS : 4351 and door shutters are of double plate flush type of 45mm thick with two outer sheets of 1.2mm rigidly connected with continuous vertical 1.0mm stiffeners @ 150mm c/c. Side, top and bottom edges of shutters shall be reinforced by continuous pressed steel channel with minimum 1.2mm thick, the door shall be sound deadened by filling the inside void with mineral wool. Including all fittings like closer, tower bolts, stoppers, alldrops, Godrej or equivalent make mortice lock with handle on both sides, shop and final painting etc all complete.	SQM	10			
2	Providing and fixing electro colour coated (anodised) aluminium frame work for doors, window and ventilators of any size and type with all fixtures, fittings etc. The aluminium sections shall be of Hollow extruded section of minimum 1.6mm wall thickness as manufactured by JINDAL or equivalent. (Only weight of aluminium section shall be measured for payment.) Hence cost is inclusive of all fittings and fixture.	KG	960			
3	Providing and fixing fire proof steel doors (single or double shutter) with panic devices shall be 45mm thk flush design comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centers including all fittings, shop painting with approved post office/signal red color fire resistant paint and mineral wool insulation (64 kg/cum density) complete and shall be fire proof as per IS:3614, TAC requirements and as per specification. Minimum ratings shall be 2 Hrs.	SQM	60			



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4	Providing and fixing steel windows/ventilator with steel sections as per IS:1038, IS:1361 & IS:7452 latest revision.including all fittings, metal beadings, hold fasts, shop and final painting ,glazing, etc. all complete. (Glazing shall be paid separately)					
A	openable type/partially openable type	SQM	10			
B	fixed type	SQM	10			
C	Extra over item 4 (of XII Doors/Window/Ventilators) for providing and fixing with suitable wire grill over window , ventilators complete in all.	SQM	290			
5	Providing and fixing in position rolling shutter of hot rolled double dipped galvanised steel lath section of 18 SWG tested mild steel strips at 75mm rolling centres interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs, top cover, primer & shop coats of approved enamel paint etc, all complete as per IS 6248 and specification of approved make of following types: The bottom lath shall be coupled to a lock plate fabricated from 3mm thick galvanised steel plate and securely rivetted with stiffening angles.(partly coiled and lath/full lath).					
A	Hand Operated	SQM	20			



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B	Mechanically Operated	SQM	70			
C	Electrically operated	SQM	10			
6	Providing and fixing PVC doors(25 thk double skin) of sintex or equivalent make including all fitting & fixtures as per specification, drawing and instructions of engineer in charge.	SQM	60			
B	4 mm thick (clear or tinted) float glass	SQM	400			
C	5.5 mm thick clear float glass	SQM	200			
D	6 mm thick wired glass conforming to IS:5437	SQM	100			
E	6mm thick multiwall polycarbonate plain or tinted Sheet with fire and u/v resistant	SQM	40			
F	4mm ground glass	SQM	40			
G	Double glazing of two 6mm thick glass hermetically sealed and separated by 12mm gap to provide thermal insulation with outside of glazing shall be of tinted glass tec. Complete in all respect as per drawing, specification and direction of engineer in charge	SQM	40			
XI	BRICKWORK: Brickwork masonry including all labour, material, equipment, transportation, handling, scaffolding etc. at all levels as per specification, drawings and as directed by engineer - in - charge.					



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1	Providing brick work in cement mortar 1:6 (1 part cement 6 parts coarse sand) in walls, chambers etc. in thickness varying from 230mm to 460mm at all depths, places and positions below/above plinth including raking out joints, curing, scaffolding etc. complete excluding plastering and painting.					
C	Using burnt clay bricks of class designation 7.5 of nominal dimension	CUM	2706			
B	Using clay ash bricks as per IS 13757 with crushing strength of 50 kg/cm ² and minimum percentage of fly ash 25%	SQM	400			
2	Providing and encasing of structural steel member with masonry work around flanges, webs etc. and filling the gap between steel and masonry by minimum 12mm thick mortar. Encased member shall be wrapped with chicken wire mesh with 50mm lap etc. complete as per specification. (Chicken wire mesh shall be paid separately.)	CUM	20			
3	Supply and fixing precast solid concrete blocks conforming to grade D-50 of IS:2185(part-I) 1974, reframed 1987 having compressive strength 5.0n/sqm in 1:6 mortar for 200mm of more and 1:4 for 100mm wide complete in all respect as per drawing, specification and direction of engineer in charge.	CUM	40			
4	Providing and laying Damp Proof Course 50mm thick 1:1.5:3 concrete (12mm and down graded aggregate) with 2% of approved admixture of water proofing compound all complete. Two layers of hot bitumen coating 85/25 grade as per IS:702 @ 1.7Kg./sqm shall be applied one before & one after the DPC including all labour, material etc complete in all respect.	SQM	2350			

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XII	CEMENT MORTAR PLASTER: Cement mortar plaster including making grooves wherever required including all labour, material, scaffolding, curing etc at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Providing 20 mm thick plaster in two layers outside (First layer of 14mm and final layer of 6mm) the building/boundary wall in cement mortar 1:6 on walls, finished to a smooth finish including providing 3mmx3mm size grooves at junctions of two dissimilar materials all complete.	SQM	9721			
2	Providing 13mm thick plaster inside the building/boundary wall in cement mortar 1:6 on walls finished to a smooth finish as per specification all complete.	SQM	10521			
3	Providing 6mm thick plaster on ceiling in cement mortar 1:4 finished to a smooth all complete.	SQM	6951			
4	Providing 12mm thick plaster with 1:6 mix in walls, drains/culverts with a paste of neat cement @ 1kg/sqm and rubbed smooth with trowel etc. all complete.	SQM	850			
5	Forming groove of uniform size from 12X12 mm upto 20X15 mm in plastered surface as per approved pattern, using wooden battens nailed to the under layer, including removal of wooden battons, repair of the edges of plaster panel and finishing the groove etc. complete as per specification, drawing and the instructions of engineer in charge.	RM	200			



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6	Providing drip coarse on plastered surface at all elevations for all type of work such as chajjas, parapet, projections etc. including scaffolding, finishing etc. complete with all labour, tools and plants as per specification, drawing and instructions of engineer in charge.	RM	200			
XIII	FINISHES TO CONCRETE / PLASTERED SURFACES: Finishes, painting to concrete, plastered surfaces including all labour, material, equipment, surface preparation, scaffolding etc. at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Providing and applying two coat of water proof cement based emulsion conforming to IS : 5410 including compatible primer coat or thinned coat of exterior emulsion complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	8113			
2	Providing and applying two or more coats of oil bound destemper as per IS 428 of approved brand, shade and manufacture to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface as per manufacturers guideline.	SQM	8913			
3	Providing and applying two coat of water bound distemper with compatible primer complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	6951			
4	Providing and applying two or more coats of acrylic emulsion paint as per IS 5411 of approved brand, shade and manufacture to give smooth, hard, durable & glossy finish over a coat of primer over prepared plaster surface as per manufacturers guideline.	SQM	125			



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5	Providing and applying 2 or more coats of acid/alkali resistant paint of approved brand and colour conforming to IS: 9862 to floors, walls and ceiling including preparation of surface to receive paint, providing and applying bitumen primer confirming to IS 158 complete all as per manufacturer's recommendations and as approved by engineer, at all heights above or below grade level, complete as per specifications.	SQM	468			
6	Providing and applying Two or more coats of fire resistant transparent paint as per IS 162 on all woodwork over french polish as per IS 348 or flat oil paint as per IS 137 of approved grade and manufacture to give an even shade as per specifications.	SQM	20			
7	Providing and applying Two or more coats of black anti-corrosive bitumastic painting of approved brand and manufacture to give an even shade complete.	SQM	4			
8	Providing and applying Two or more coats of synthetic enamel paint of approved make made from synthetic resins and drying oil with rutile titanium dioxide and other selected pigments to give smooth, hard, durable & glossy finish to all interior and exterior surfaces complete.	SQM	40			
9	Providing and applying resin bonded granular textured finish, for external applications shall consist of crushed stone/quartz chips of .5 mm to 2.5 mm size and of approved natural color/shade and bonded with synthetic resins, adhesives and additives altogether in a single pack mix, applied on cured and dried plaster surface with a dry film thickness of minimum 2 mm. The final finish shall have UV resistance, fungus, bacterial resistance properties all complete with grooves filled with poly sulfide sealant of matching color and shade as per specification/drawing/approval of engineer in charge.	SQM	4			



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Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.
10	Providing and applying 2 mm thick plaster of paris punning on walls including preparation of surface, staging, etc. to achieve a smooth even surface all complete as per specification and as directed by Engineer.	SQM	8913			
11	Providing and applying ready made Epoxy Paint over areas other than steel structure with suitable pigments of approved shade as per specification and direction of Engineer. The epoxy paint shall be a two pack material and shall be resistant to water, splash, spillage & acidic environment. The epoxy paint coating shall be of 150micron thickness over epoxy primer.	SQM	4			
12	Providing and applying Synthetic plaster for external applications composed of synthetic fibre and petroleum based chemical similar to RENOVO or equivalent and of approved natural color/shade applied on cured and dried plaster surface. The final finish Paint shall have UV resistance, fungus, bacterial resistance properties all complete with grooves filled with poly sulfide sealant of matching color and shade as per specification/drawing/approval of engineer in charge.	SQM	4			
XIV	ACID/ALKALI RESISTANT LINING					
1	Applying a coat of bitumen primer conforming to IS: 3384. The primed surface shall then be applied with a uniform coat of bitumen conforming to IS: 1530. complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	452			



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Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.
2	Providing and applying bitumastic compound conforming to IS:9510 complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	452			
3	Providing and laying ceramic unglazed vitreous acid resisting tiles thickness of minimum 25mm pointed with acid/alkali resisting mortar shall conform to the requirements of IS: 4457 respectively complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	452			
4	Providing and applying potassium silicate & resin type mortar conforming to IS:4832 part I & II respectively complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	452			
XV	FLOORING AND SKIRTING: Flooring and skirting at any level including base layer, labour, material, equipments, transportation, handling, curing, polishing etc. at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Providing and laying heavy duty ceramic tiles with matt finish of 300mm X 300mm X 7mm size of approved brand, shade and colour complete in all respect as per drawing, specification and direction of engineer in charge	SQM	151			
2	Providing and laying granolithic flooring with non metallic floor hardner topping 12mm thick with a total thickness of 50mm using cement concrete in 1:1:2 proportion laid in panel of size 2m X 3m. The item is inclusive of neat cement slurry of 2.5kg/sqm, screed strip for making the panel etc. complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	4651			

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Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.
3	Providing and laying PVC floor covering of 2mm thick in the form of sheet/tiles over 48mm thick concrete bed of grade M15 conforming to IS:3462 & laid as per IS:5318. It include adhesive of rubber based, meatllic strip to protect the edge of PVC sheet etc.. complete in all respect as epr drawing, specification and direction of engineer in charge.	SQM	950			
4	Providing and laying 50 mm thick heavy duty cement concrete mix 1:2:4 (1 cement: 2 sand : 4 stone aggregates) flooring with metallic hardener pigmented topping of 10 mm thick uniform graded treated iron particles in skirting and dado complete as per specification.	SQM	177			
5	Providing and laying precast polished heavy duty cement concrete tiles (Carborundum topping) of size 300X300X25 thick of approved shade as per IS 1237, including cement mortar bedding of 1:3 (1 cement : 3 sand) jointed with neat cement slurry etc. all complete with pigment to match the shade of the tiles including rubbing, curing, grindig and polishing complete with laying as per IS 1443 etc. all complete for following:					
A	Laid in floors	SQM	2300			
B	Laid in skirting	SQM	400			
6	Providing and laying 18-20mm thick polished Granite stone of approved color and texture in flooring with brass/ stainless steel strips. Under bed shall average 30mm thk of 1 cement : 2 sand : 4 stone aggregate by volume and brought to proper level. The granite stone slabs/tiles laid over under bed, pressed and tapped down with wooden mallet to the proper level, lifted and pressed again with thick cement slurry spread over the surface with fine joint finished including pigments, curing, grinding, granite polishing etc. all complete.	SQM	384			



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7	Providing and laying polished Granite stone 14-16mm thk in skirting and dado with 6mm thick projection from adjacent plaster including mortar ,cement slurry ,pigments, curing, grinding,moulding, granite polishing etc. all complete.	SQM	115			
8	Providing and laying vitrified ceramic tiles of polished variety of size 600x600 from reputed / approved manufacturer, complete including underbed of cement mortar 1:3 with neat cement slurry etc. all complete for following					
A	7.5 mm thick tiles In flooring	SQM	100			
B	10mm thick tiles In flooring	SQM	20			
C	7.5 mm thick tiles In skirting and dado upto specific height	SQM	40			
D	10mm thick tiles In skirting and dado upto specific height	SQM	12			
9	Providing and laying 10 mm thk non-skid fully vitrified tiles of make 'MARBONITE' or 'FERRASTONE of BOSS Profile limited' or equivalent in flooring and skirting over 30 mm thick underbed of 1 part cement and 3 parts coarse sand by weight mixed with sufficient water, complete as per specification laid in pattern of following sizes					
B	600X600 mm	SQM	400			



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10	Providing & fixing ceramic unglazed vitreous Acid / Alkali resistant (Chemical resistant) tiles confirming to IS:4457 in flooring/Dado of 25mm thick pointed with acid/alkali resisting mortar. The tiles shall be applied with 6mm thick Potassium Silicate bedding mortar as per IS: 4832 and resin based mortar like epoxy mortar and including preparation of surface, application of bitumen primer and uniform coat of bitumen conforming to IS:1530, curing etc. all complete for following thicknesses. The tiles should be abrasion resistant & durable. The joints shall be filled with resin mixed with graded particle.The total minimum thickness shall be 50mm of flooring complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	300			
11	Providing and fixing glazed ceramic tiles of approved color and design of size 200x300mm / 300x300mm in dado of approved size , projecting 6mm uniformly from adjacent plaster or wall finish. The mix for underbed plaster shall consist of 1part cement and 3 parts sand by weight. fairly moist but firm, tiles shall be pressed over under bed by applying cement slurry including pigments, curing etc all complete for following thicknesses:	SQM	1			
A	5mm thick	SQM	200			
B	7.5mm thick	SQM	200			



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12	Providing and fixing dividing strips in joints of cast in situ floorings at various elevations, finishing, all labour, material etc. complete as per drawing, specification and instructions of engineer in charge.					
A	Glass strips 40 mm wide and minimum 6 mm thick.	RM	40			
XVI	FALSE CEILING: False ceiling including all labour, material, equipment, transportation, handling, suspension system etc at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Providing and fixing gypsum plaster board of 12mm thick conforming to IS:2095 and size of tile is 600mm X 600mm X 12mm. Boards shall be provided with one coat of primer and 2 coat of acrylic emulsion paint. complete as per drawings, specification and instructions of the engineer.	SQM	100			
2	Providing and fixing aluminium false ceiling system comprise of 84mm wide 12.5mm deep closed type plain panels of approved colour, roll formed out of 0.5mm thick corrosion resistant aluminium alloy AA5050 fixed on roll formed carriers and panels 0.9mm and 0.5mm thickness respectively. The system shall be complete with edge cover profile, special panels, carrier splice etc. The carriers shall be suspended from roof by 4mm dia. galvanized steel wire hangers having special height adjustment clips made from spring steel at max. spacing of 1.2m C/C both ways. Additional hangers and height adjustment clips shall be provided for return air grills, supply air diffusers, light fixtures, AC ducts etc. complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	400			



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3	Providing and fixing metal suspension system shall conform to ASTM C-635 and shall be hot dipped MS galvanised minimum 6mm dia. rod (grade 180 as per IS:277). Nominal size of aluminium T-section shall be 24 X 38 mm for main runners and 24 X 30mm or 24 X 25mm cross runners. 24 mm wide exposed flange surface shall be permanently colour coated. The minimum thickness of T will be 1.5mm. Galvanized steel rods shall be 6mm dia.The cost is inclusive of additional hangers and height adgustment clips provided for return air grills, light fixtures, AC ducts etc. and MS channel (minimum MC100 with max. spacing of 1.2m C/C both ways) grid provided above the false ceiling level for movement of personnel and to facilitate maintenance of light fixtures, AC ducts etc. The aluminium section weight shall only be measured for measurement prupose hence cost shall be inclusive of all other accessories to any extent. However the payment for Structural steel portion shall be paid under relevant head.	KG	50			
4	Providing and fixing unde deck insulation comprise of 50mm thick resin bonded mineral wool or glass wool insulation mat conforming of IS:8183. This mat shall be backed with 0.05mm thick alunminium foil and 24G X 25mm wire mesh neting. They shall be fixed to ceiling or wall as the case may be with 100X50X6 slotted mild steel plate welded to MS plate inserts embedded at the soffit of the slab at 600mm C/C and 14G steel wire drawn thriugh slots and fixed to wire netting etc. all complete as per drawing, specification and direction of engineer in charge.	SQM	350			



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XVII	RAIN WATER DOWN TAKE PIPES: Rain water down take pipes including all labour, material, transportation, 2 coats of approved paint over one primary coat, fixtures, accessories etc at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Providing and fixing HDPE down take pipes conforming to IS:4985 as per specification of following diameters.					
B	150 mm Dia	RM	320			
	FENCING AND GATES: Fencing and gates including all labour, material, equipment etc at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Supplying and erecting in position 2.4 m high PVC coated gavanised chain linked fencing of minimum 4mm dia. (including PVC coating) of mesh size 75mm x 75mm. The diameter of the hot dip galvanised steel wire for chain link fencing excluding PVC coating shall not be less than 2.5mm. The PVC coated chain link will be streatched by clips at 0.5m interval to 3 strands of galvanised high tensile spring steel wire (HTSSW) of 2.5mm dia. interwoven with chain link wire mesh which in turn are attached to the fence post with security nuts and bolts. Above PVC fencing 600mm high galvanised concertina shall be provided such that total height of 3.0m above toe wall. 8 rows of barbed wires shall be provided as anti climbing device of 600mm high. Cost shall be inclusive of all nuts, bolts, fasteners, clamping strips, clamps, clips etc. (all shall be galvanised) complete in all respect as per drawing, specification and direction of engineer in charge.	SQM	155			
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2	Supplying and fixing 600mm high concertina of high tensile serrated galvanised wire (HTSW) made with wire diameter of 2.5 mm which will be stretched to 6m and attached on two strands of galvanised HTSW of 2.5mm dia by means of clips at 1m interval. These two HTSSW strands will be attached to the fence posts/ angles with 12 mm security fasteners complete in all respect as per drawing, specification and direction of engineer in charge.	RM	1700			
3	Fabrication and Erection of fencing post of including stay post at corner and transverse stay post as per the drawing. The post is painted with two coats of chlorinated rubber paint over a suitable primer complete in all respect as per drawing, specification and direction of engineer in charge. The foundation for post shall be paid separately. Strucutrural Steel shall be supplied free of cost	MT	20			
4	Fabrication and installing in position and sliding/hinge Gates of structural steel. The gate shall have provision of wicket gate of size 1.0m X 2.1m. The gate frame and post shall be of medium class MS pipe of minimum dia. 75mm and panel plate shall be of minimum thickness 2.5mm confirming to IS:513 complete in all respect with hinges, MS aldrops with losking arrangement, tempered steel pivot, guide track of MS tee, bronge aluminium ball bearing arrangement, castor wheet etc. as per drawing, specification and direction of engineer in charge.	MT	12			



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XVIII	WATER SUPPLY: Water supply work including men, material, equipment etc. Conforming to IS : 1172, 2064 & 2065 at any level as per specification, drawings and as directed by engineer - in - charge.					
1	Providing and fixing in position tested heavy duty type chromium plated (CP) brass long neck bib cocks including sockets, union, nuts etc all complete - 15mm nominal bore.	each	60			
2	Providing and fixing in position heavy duty brass stop cock of approved quality including all specials etc all complete - 15mm nominal bore.	each	25			
3	Providing and fixing in position heavy duty brass full way valve with wheel of approved quality including all specials etc all complete for following sizes:					
A	25mm nominal bore.	each	10			
B	50mm nominal bore.	each	10			
4	Providing and fixing GI pipes class B medium class conforming to IS:1239 pipes shall be concealed and painted with anticorrosive paint, complete for internal works with GI sockets, unions, elbows, tees, nipples etc and clamps including cutting and making good the walls etc all complete for following sizes:					
A	15 mm nominal bore.	RM	5			
B	20 mm nominal bore.	RM	5			
C	25 mm nominal bore.	RM	100			

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Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.
5	Providing and fixing GI pipes class B complete for external work with GI sockets, unions, elbows, tees, nipples etc including trenching & refilling, anti-corrosive paint etc all complete for following sizes:					
A	15 mm nominal bore.	RM	1			
B	20 mm nominal bore.	RM	1			
C	25 mm nominal bore.	RM	100			
D	50 mm nominal bore.	RM	1			
6	Providing and fixing 610mmx453mmx6mm thk mirror from reputed mirror manufacturer. Mirror shall be mounted with glass adjustable revolving CP brackets with CP screws etc all complete.	each	48			
7	Providing and fixing 610mmx127mmx6mm thk clear glass with C.P Guard rails and mounted on C.P. brackets etc all complete.	each	48			
8	Providing and fixing 25mm dia stainless steel wall mounted towel rod with C.P. Brackets etc all complete.	each	48			
9	Providing and fixing C.P. soap holder mounted with C.P. screws etc all complete.	each	48			
10	Providing and fixing stainless steel / C.P. liquid soap dispenser . Dispenser shall be round and easily revolving with removable threaded nozzle and mounted on C.P. brackets etc all complete.	each	48			
11	Providing and fixing glazed vitreous wall mounted paper holder with suitable cover cum cutter fitted with CP screws etc. All complete.	each	48			



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12	Providing and fixing chromium plated brass shower rose with 15 or 20 mm inlet all complete.	each	25			
13	Providing & fixing in position P.V.C. water tank of Syntex or approved equivalent conforming to IS:12071 including making all necessary inlet & outlet pipes, fixture, ball cocks, valves etc all complete for following capacities. GI pipes shall be paid separately under ST No. 2105.					
A	1000 litres capacity	each	1			
B	2000 litres capacity	each	12			
C	5000 litres capacity	each	1			
14	Providing and fixing approved stainless steel sink with integrated drainboard as per IS:13983 of size 915x460x178mm with CI brackets, stainless steel chain with rubber plug 40mm, cp brass waste trap with necessary union complete including painting the fittings, cutting and making good the wall where required etc. all complete.	each	1			
15	Providing and fixing electrically operated hand dryer with photo voltaic control etc. complete in all respect as per drawing, specification and direction of engineer in charge.	each	12			
XIX	SANITARY WORKS: Sanitary work including all labour, material, equipment etc. conforming to IS:1172, 2064 & 2065 at any level as per specification, drawings and as directed by engineer - in - charge.					



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1	Supply and fixing glazed vitreous china Wash Basin conforming to IS:2556 part 4 of oval shape with R.S. or C.I. brackets painted white, with photo voltaic control fittings, 15mm chromium plated brass hot & cold faucets with nylon washers, chromium plated brass chain with rubber plug, 32mm chromium plated brass bottle trap and waste of standard pattern, 32mm dia chromium plated brass trap unions, plastic connection pipe with chromium plated nuts, fittings, cutting and making good the walls where required etc all complete.					
A	White	each	24			
B	Colored	each	1			
2	Providing and fixing approved vitreous china laboratory sink of size 600x400x200mm conforming to IS:2556 (part-5) with R.S. or C.I. brackets, chromium plated brass chain with rubber plug 40mm, CP brass waste and 40mm CP brass trap with necessary union complete including painting the fittings, cutting and making good the wall where required etc. all complete.	each	15			
3	Providing and fixing stainless steel kitchen sink of size 750x510x200mm conforming to IS: 13983 including all fittings etc. all complete.	each	1			
4	Providing and fixing white/ colour glazed vitreous china European type water closet conforming to IS:2556 with siphon, open front solid plastic seat and plastic cover, low level 12.5 litre PVC flushing cistern (same colour as WC) with valveless fittings, necessary C.P connections, photo voltaic sensor operated flushing system etc all complete.					

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A	Floor mounted	each	12			
B	Wall mounted	each	12			
5	Providing and fixing white/ colour glazed vitreous indian type Orissa pattern (580x440mm) water closet conforming to IS:2556 part 3 with all fittings including foot rests, low level 12.5 litre PVC flushing cistern with valveless fittings, necessary C.P connections and photo voltaic sensor operated flushing system etc all complete.	each	24			
6	Providing and fixing white flat back glazed vitreous china urinals of size 440x265x355 mm with photo voltaic control flushing system as per IS:2556 (part 6, section 1) with flush pipes, lead pipes, gratings, traps and necessary C.P. fittings etc. all complete.	each	24			
7	Providing, laying NP3 class RCC pipes with collars jointed with stiff mixture of cement mortar 1:2 including testing of joints etc all complete for following.					
A	200mm dia	RM	1			
B	300mm dia	RM	5			
C	450mm dia	RM	100			
D	600mm dia	RM	50			
E	900mm dia	RM	1			



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8	Providing, laying NP2 class RCC pipes with collars jointed with stiff mixture of cement mortar 1:2 including testing of joints etc complete for following.					
A	150mm dia	RM	873			
B	250mm dia	RM	1091			
C	300mm dia	RM	1310			
D	500mm dia	RM	2912			
9	Providing, laying NP4 class RCC pipes with collars jointed with stiff mixture of cement mortar 1:2 including testing of joints etc complete for following:					
A	450mm dia	RM	10			
B	600mm dia	RM	10			
C	900mm dia	RM	1			
10	Providing and fixing heavy duty C.I Manhole cover of size 1000mmx1000mm including frame from reputed manufacture etc. all complete.	each	2			
11	Providing and fixing circular heavy duty C.I. manhole cover of 1000 mm dia with frame etc. all complete.	each	24			
12	Providing and fixing square mouth S.W Gully trap grade 'A' complete with CI grating, brick masonry chamber and water tight CI cover with 300x300mm (inside). The weight of cover to be not less than 4.53 Kg and frame to be not less than 2.72 Kg etc all complete for following sizes:					



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FORMAT / BOQ**Tender Enquiry No: 88/14/6011/RSB
(Package-1)

Vol -1 : Commercial Documents. Section:6

Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.
A	100x100mm P or S Type.	each	1			
B	150x100mm P or S Type.	each	1			
C	150x150mm P or S Type.	each	24			
13	Providing and fixing C.I. floor traps with C.P jalli all complete.	each	24			
14	Providing and fixing heavy duty UPVC floor traps with C.P jalli all complete.	each	24			
15	Providing and fixing GRANITE urinal partitions of size 675x325x85mm all complete.	each	24			
16	Providing and fixing eye and face drinking water fountain (combined unit with receptacle conforming to IS: 10592) all complete as per specification.	each	1			
17	Providing and laying in position precast concrete septic tanks for 25 persons manufactured by IHP or approved equivalent with all connections ,vent pipes,earth work in excavation,backfilling etc complete as per manufacturers instructions and as per directions of Engineer	each	24			
XX	BREAKING/DISMANTLING/DEMOLISING WORK					
1	Dismantling concrete work for all types of structures at all levels including stacking of servicable material to a lead of 500 m and disposal of unservicable material upto a lead of 2 km, cutting of reinforcement, labour, equipment, safety precautions etc all complete as per drawings, specification and instructions of engineer in charge.					



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Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.
A	Plain cement concrete of all grades	CUM	10			
B	Reinforced cement concrete of all grades	CUM	10			
2	Cutting of concrete in reinforced concrete work, cutting pockets, making openings at all levels and according to shapes, disposal of waste materials upto a lead of 2 km as directed by engineer including equipment, safety precautions, making good the broken surface, cost inclusive of cutting reinforcement, return of cut reinforcement to store etc all complete as per specification, drawing, instructions of engineer in charge.	CUM	10			
3	Extra over and above ITEM 1 (of XXII-BREAKING / DISMENTLING / DEMOLISHING WORK) for cutting of reinforcement , all sizes and types including labour, equipment, return of cut reinforcement to store etc all complete as per specification, drawings and instructions of engineer in charge. Measurement shall be on the cross sectional area of reinforcement cut.	SQ CM	1			
4	Breaking of existing brick work at all levels including plastering, removing the rubbish up to a distance of 500 m including transportation, loading, unloading etc. all complete as directed by the engineer.	CUM	10			
5	Making openings in existing brick wall or partition wall including making good the broken edges/surface with cement mortar etc. complete.	CUM	10			
XXI	MISCELLANEOUS WORKS: Miscellaneous works including all labour, material, equipment etc. at any level unless otherwise specified as per specification, drawings and as directed by engineer - in - charge.					



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Vol -1 : Commercial Documents. Section:6

Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.
1	Providing and Filling in trenches, plinths, area paving and other underground structures with graded stone aggregate of size range 63 mm to 45 mm in layers not exceeding 230 mm in thickness including breaking of stone boulders to required sizes, filling the interstices with selected sand and compacting to 85 % of original volume of stone stack for all lifts etc. all complete. Payment shall be made for the measurement of the volume of the compacted fill.	CUM	3941			
2	Providing and mixing approved Bipolar Concrete penetrating Corrosion inhibiting admixture in concrete as per detail specification of manufacturer etc. all complete.	Kg	1			
3	Anti termite chemical treatment of soil with Chlorpyriphos/Lindane E.C. 20% with 1% concentration conforming to IS:8944 and as per IS 6313 all complete. (Plinth area of building at ground floor only shall be measured for payment)	SQM	10			
4	Providing and fixing weep holes in Drains consisting of 100 mm dia HDPE pipe sleeves with single side covering for the pipe mouth with galvanised welded wire fabric of 20 mm sq. opening covered with 40 mm downgraded aggregates in 300 X 300 mm sq. and 300 mm deep size all complete.	each	1			



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Item no.	Schedule of items	Unit	Qty	Unit Rate in Rs. (in Figures)	Unit Rate in Rs. (in Words)	Total Amount in Rs.		
5	Providing and laying dry stone pitching of 230 mm thickness for slope protection in cement mortar 1:6 including hammer dressing, raking of joints, pointing, preparing the bedding surface and voids filling with stone aggregate etc. all complete.	SQM	10					
6	Dismantling old existing structural steel work at any level including plates, bolts, cutting rivets, welding, dismembering and stacking the dismantled materials within a lead upto 1km etc all complete.	MT	1					
Total								
Service Tax on composition basis @ 4.944%								
Grand Total								
WCT considered in %								

(Grand Total In Words -----Only)

NOTE :-

- 6) The specifications mentioned in the above schedule of items are in brief. however refer detailed specifications of RPCL which is part of the tender document. The quoted rates are inclusive of all the works as per detail specifications of RPCL.
- 7) The quantities of various items mentioned in this tender are approximate and may vary upto any extent or may be deleted altogether and the contractor has no claim on this account. The quoted rate of each item shall remain firm as long as the variation in the total value of work executed under this contract including extra items if any, remain within plus or minus 30 (thirty percent)of the contract value as per design considerations. The tenderer has to keep their quoted rates firm up to variation of minus 30% on the basic contract value. In case the actual value of executed work on completion of work becomes less than 70% of the basic contract value then the following method shall be adopted. The actual value shall be raised by 7% of executed value subject to the condition that total value work executed plus increase by 7% as above shall be limited to 70% of the basic contract value. The rate quoted shall be firm irrespective of any upward variation in the contract price.

Signature of the Bidder with seal & date.

Rev.-1

Indent No. : IS-1-11-2005/092

Date of Issue : 21-06-2014

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