

**Dabra Alcobrew
CIVIL CONSTRUCTION WORK**

Tentative Civil BOQ					
ITEM CODE	DESCRIPTION	UNIT	Quantity	Rate (INR)	Amount (INR)
A	SECTION "A" EARTH WORK				
A.01	Excavation in Ordinary Soils				-
	clay, black cotton, soft murrum, hard murrum, sand, sandy soil, filled up grit, small pebbles, gravel, rubble isolated boulders up to 0.05 cu.m. etc without blasting which can be removed manually by pickaxes, shovels, spades etc. or mechanically operated tackles, as pick shovels truck loader etc. for all types of foundations / footings, rafts, ramps, steps, trenches, ducts, plinth beams, pits or any other structure etc. (excluding excavation for site grading) including shoring, strutting, de-watering or diverting surface water and back filling in foundations and plinth with approved excavated material laid in layers of not more than 150 mm thick watered and compacted to 90% Proctor density manually or mechanically, complete including disposing off all surplus or unusable excavated material to selected site, within owner's premises upto a lead of 1.0km, carting, spreading and levelling as directed. (Measurement for this item shall be considered for PCC area).				-
	Up to 2.00 m depth below existing ground level.	Cu.m.	27,000		
	From 2.0 m to 4.00 m depth below existing ground level.	Cu.m.	1,250		
A.02	Disposing off unused earth after completion of filling work, to selected site beyond 100m & upto a lead of 1 km,	Cu.m.	8,100		
	all surplus or unusable excavated material carting, spreading and levelling as directed. Payment of this item shall be based on the actual quantity of excavation which needs to be disposed off from volumetric calculations.				
A.03	Providing, laying and compacting Dry Rubble Soling				
	in plinth, below foundations, of all structures, rafts, trenches etc. including hand packing in regular lines, filling the interstices with stone chips / graded metal, sand, murrum, stone / grit as blindage on top as directed, watering and compacting manually or mechanically as directed and instructed for following items :				
a	230 mm thick Rubble Soling-	Sq.m.	6,200		
A.04	Filling in plinth, grading and in low lying areas				
	with approved material specified below including spreading in layers 150mm thick, watering, ramming, manually or mechanically compacting to attain 95% proctor density or relative density including conducting necessary insitu tests for confirming the acheived density complete as directed.				
a	With approved murrum brought from outside having plasticity index 12 and max. lab dry density 1.8gm/cc.	Cu.m.	2,800		
b	With approved excavated earth from owner's premises	Cu.m.	8,225		
c	Providing, filling with Sand of approved quality,	Cu.m.	6,000		
	brought from outside for filling in grading, foundations, within ring beams, retaining walls, tank pad foundations and in low lying areas with approved good quality clean sand- non aggressive with maximum organic material content of 3% by weight, maximum silt content of 10% by weight (particles smaller than 0.063mm), maximum particle size of 5mm, Grain size distribution of uniformity coefficient (D60/D10) of between 2 and 8, including spreading in layers 150mm thick, watering, ramming, manually or mechanically compacting to attain 95% proctor density or relative density in accordance with IS 1377 including conducting necessary insitu/ laboratory tests for confirming the quality of material and acheived density, complete as directed by Engineer				
B	SECTION "B" CONCRETE & FORM WORK.				
B.01.	Providing, mixing, laying Plain Cement Concrete				
	as specified below at all heights and depths as per IS 456 using 20 mm and down graded approved coarse aggregate, as levelling course under footings, foundations, rafts, ramps, pavements, plinth beams, walls and trenches, equipment foundations, coping, sills, and inclusive of shuttering (if any required) levelling ramming, curing etc. complete.				
a	In grade M10	Cu.m.	1,950		
b	In grade M15	Cu.m.	50		
B.02	Providing, mixing and laying Plum concrete				
	as specified below under foundation or plinth with 50% plums by volume using plums up to 150mm size and using 40mm down graded approved coarse aggregates in cement concrete, including levelling, ramming, compacting and curing complete as directed.				
	In mix 1:5:10.	Cu.m	95		
B.03	Providing, supplying and laying Reinforced Cement Concrete (RCC) grade M25 Design Mix				
	with 20mm and down graded aggregate as per Indian standards and as per ductility detailing conforming to Indian Standards wherever required including preparation and				

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	getting approval of bar bending schedule, with minimum cement content 350 Kg/Cu.m in all types of works in foundations and super structure (like footings, pedestals, rafts, beams, columns, lofts, slabs, walls, chajjas, facias, staircase, shelves, bands, equipment foundations etc.) including placing, vibrating, levelling, roughening, finishing, curing etc. making openings, leaving sleeves, drip moulds etc. as per drawings excluding form work and reinforcement which will be paid separately for the following sub-items. .				
a	Substructure - Concrete for Equipment & Building Foundations	Cu.m.	3,600		
b	Superstructure - Floor/ roof beams slabs above above plinth.	Cu.m.	1,300		
c	Providing, supplying and laying Reinforced Cement Concrete (RCC) grade M30 for Liquid Retaining Structure Design Mix with minimum cement content 400 Kg/Cu.m	Cu m	1,700		
	including placing, vibrating, curing and roughening the surfaces wherever required at all heights and depths using 20 mm maximum to 6 mm size graded aggregates as per drawing and specifications but excluding reinforcement and shuttering as specified and directed to give leakproof structure including including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. Also repairing the leaks, achieving complete water tightness etc. complete as specified and directed.				
B.03	Providing and laying M20 Grade Concrete	Cu.m.	250		
	using 20mm and down graded metal as per specifications in floors, grade slab, pavements, walkways, copings etc. including form work, curing and finishing to levels, slopes. (Broom/trowel finish) as required but excluding, reinforcement steel which will be paid separately.				
B.06	Providing, making, fixing and supporting Formwork				
	of steel plates or marine plywood for concrete elements in Beams, Columns, Portals & Brackets, slabs, walls, pedestals, liquid retaining structures. pits, trenches, lintels, chajjas etc. at required slopes, line and plumb at all levels including scaffolding, centering, maintaining after concreting, stripping the same after the specified period for following sub items:				
a	Plain Surfaces	Sq m	19,500		
b	Curved surfaces	Sq m	4,850		
B.07	Providing Bolt Hole Pockets				
	of various sizes and depths in concrete at all heights as per drawings including necessary form work etc. complete for the following sizes.				
	Length Breadth Depth				
a	Up to 150 mm Up to 150 mm Up to 400 mm	No.	710		
B.08	Providing and laying at all heights a Grout				
	with approved material as specified below under equipments, column base plates, bolt hole pockets, sleeves etc. including chipping the concrete surfaces, cleaning, laying, finishing the surfaces smooth, curing etc, complete as specified and directed.				
	Non-shrink grout by using Conbextra GP2 grout of FOSROC or equivalent approved as per manufacturers specification.	Cu.m.	10		
B.09	Providing and fixing PVC Water Stopper				
	of approved make and design at the location of construction joints of concrete elements as shown in the drawings as per the Manufacturer's Specifications.				
	For 230 mm wide-12 mm thick	Rm	1,675		
C	SECTION 'C' - REINFORCEMENT				
C.01.	Providing, transporting, storing, and placing in position Reinforcement Steel,				
	in R. C. C. works as per drawings, specifications, Indian standards and as per ductility detailing conforming to local standards wherever required including preparation and getting approval of bar bending schedule, straightening, removal of mill scales and rust, cutting, bending to the required shape, placing and binding in position at all heights including the cost of approved type of binding wire etc. complete:				
	High strength deformed bars (FE500)	MT.	550		
D	SECTION 'D' - MASONRY/ PLASTER/ POINTING (Refer Technical Specifications Section)				
D.01	Providing and laying Brick Masonry				
	with best quality, locally available, having minimum crushing strength of 50 kg/cm ² , approved bricks in foundations, sub-structures, super structure, walls, pillars, chambers, dyke walls, steps and platforms in cement mortar 1:5 including STEEL staging, STEEL scaffolding, and finishing the joints and curing etc. for the following sub items:				
	230 mm and above thick at all heights	Cu.m.	1,550		
D.02	Providing and laying 115 mm thick Brick Masonry	Sq.m.	150		

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	n partition walls with best locally available approved bricks, at all heights in cement mortar 1:5 with R.C.C band 75mm thk. horizontally for every one metre height with reinforcement of 2nos. 8mm dia longitudinal bars and 6mm tie bars at 200mm c/c including cutting, binding, placing of reinforcement, scaffolding, finishing the joints, curing etc. complete as per drawing and specification and as directed by the Engineer.				
D.03	Providing and Laying Plaster in cement mortar 1:4				
	to surfaces of masonry and concrete, for ceilings, walls, columns, beams etc. sides and soffits, rounding of edges including scaffolding, hacking of concrete surfaces, raking of masonry joints, curing etc, complete at all heights as specified and as directed.				
a	8mm thick with lime punning to ceilings, soffits of chajjas, canopies etc.	Sq.m.	2,150		
b	15mm thick with gypsum/POP finish to masonry/ concrete internal surfaces	Sq.m.	5,375		
D.04	Providing and Laying at all heights, 20 mm thick Sand Faced Plaster	Sq.m.	14,225		
	to external surfaces of concrete or masonry in two coats using sponge or sand facing machine including necessary scaffolding, hacking of concrete surfaces, raking of masonry joints, curing, including Drip Mould 40mm wide X 12mm thk etc. complete (1st coat of 13 mm thickness shall be in CM 1:4 and final coat of 7mm in CM 1:3 with approved water proof compound)				
D.05	Providing and laying 15mm thk Waterproof Plaster	Sq.m.	4,150		
	to concrete or masonry surfaces at all heights in cement mortar 1:4 with waterproofing admixture of FOSROC or equivalent approved as per manufacturers specifications including all scaffolding, hacking of concrete surfaces, curing etc. complete & as directed to provide a leak proof surface.				
E	SECTION "E" FLOORING / SKIRTING / DADO				
E.01.	Providing and laying 50mm thick cement concrete IPS or Concrete Floor	Sq.m.	6,000		
	in flooring, landings, treads, etc comprising of 38mm thk. base layer in cement grit concrete 1:1:2 with 12.5mm & downgraded aggregates, laid in alternate bays and and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry including preparation of base, aluminium strips in joints, rounding corners and junctions casting in approved pattern, thoroughly compacting, finishing, shuttering, curing etc. complete and as directed by the Engineer (Max panel size 3M x 4M)				
E.02	Providing & laying machine cut machine polished Kotah Stone				
	selected slabs up to 25 mm thk. of size up to 600mmx600mm, approved pattern and uniform colour & shade laid over a bed of CM and filling in joints with neat cement slurry of matching colour rounding the corners / nosing including dressing at edges to achieve hair joints, polishing, cleaning and curing etc., at all heights for the following sub items :				
	for Stair Treads/ Risers over a bed of 20 mm thk. in CM 1:3	Sq.m.	110		
E.03	Providing and laying first quality Ceramic Tiles				
	of "M/s H.R.Johnson", "Nitco" or approved equivalent make with required surface finish at all heights, closely jointed and pointed with matching cement slurry and finished including curing, cleaning etc. complete.				
a	Floors over a bed of 25 mm thk .CM 1:3 (Size upto 400x400)	Sq.m.	70		
b	Dado with 20 mm thk. backing in CM 1:3	Sq.m.	90		
c	Skirting 100 mm high with 20 mm thk. backing in CM 1:3	RM	75		
E.04	Providing and laying first quality Vitrified Tiles				
	of "M/s H.R.Johnson", "Nitco" or approved equivalent make with required surface finish at all heights, closely jointed and pointed with matching cement slurry and finished including curing, cleaning etc. complete.				
a	Floors over a bed of 25 mm thk .CM 1:3 (Size upto 600x600)	Sq.m.	650		
b	Skirting 100 mm high with 20 mm thk. backing in CM 1:3	RM	400		
E.05	Providing & laying machine cut machine polished Green / White Marble				
	selected slabs up to 25 mm thk. of required size, approved pattern and colour & shade laid over a bed of CM and filling in joints with neat cement slurry of matching colour rounding the corners / nosing including dressing at edges to achieve hair joints, polishing, cleaning and curing etc., at all heights for the following sub items :				
	Window sills 300 wide over a bed of 25 mm thk .CM 1:3 as per approved design with half round moulding	Rmt	225		
E.06	Providing and laying Acid Resistant Flooring/ Lining				
	over concrete floors skirting over walls including acid proof bedding, jointing with acid resistant plasticised sulphur cement as per manufacturer's specifications.				
	with 38mm thick Acid Resistant Bricks	Sqm	90		
E.07	Providing and laying anti corrosive Sand Bituminous Carpet				

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	under storage tanks and other specified areas using screened sand, coarse sand free from impurities and conforming to IS 383, mixed with bitumen 80/100 or shehnace RC-3 or equal in proportion of 9% to 11% by volume (80 to 90 kg of bitumen to be mixed with approx. 1 cu. m. of sand) giving homogenous, uniform mixture, including giving requisite lines, levels, slopes and tamping the layer to form hard mass to the required thickness all complete.				
	50mm thick	Sq.m.	1,400		
F	SECTION "F" DOORS / WIDOWS				
	A-MS DOORS /WINDOWS/ VENTILATORS/ ROLLING SHUTTERS				
F.01.	Providing, fabricating, and fixing M.S. Rolling Shutters				
	of approved make, made out of 18 gauge M.S sheets, bottom rails, M.S. guide channels, MS drum top cover, suspension shaft, with tested springs, all fittings, fixtures and locking arrangements, pulling handles, including surface preparation for painting i.e. with 2 coats of zinc chromate primer and 2 coats of synthetic enamel paint of approved make colour & shade as specified & directed.				
	Mechanical, Gear operated with ball bearings type	Sq.m.	75		
F.02	Providing, fabricating, fixing Aluminium Framed Single Shutter or Double Shutter door				
	in position in line, level & plumb, at all heights,as specified using aluminium standard extruded sections of 'INDAL'or equivalent make, 45mm x100mm x1.52 kg/m main frame, 100mm x45mm x1.65 kg/m bottom & middle rail, 50mm x45mm x0.8 kg/m top rail, 50mm x45mm x0.95 kg/m styles with all necessary fittings, fixtures, glazing clips, 100mm x12mm thk full width flat handles on both sides, gaskets, beading, mortise lock with locking arrangements from both sides, brass hinges etc complete for following sub items				
F.03	Partly Panelled and Partle glazed	Sq.m.	75		
	with 5mm thick clear sheet glass glazing for top portion, bottom portion provided with 18 gauge aluminium sheet on both the sides with plywood packing in between				
F.04	Partly Panelled and Partle glazed for Toilets/ Pantry	Sq.m.	20		
	with 4mm thick frosted glass glazing for top portion, bottom portion provided with 6mm thk PVC Sheet				
F.05	Providing, fabricating, fixing Aluminium Framed Fully glazed Sliding Window	Sq.m.	175		
	in position in line, level & plumb, at all heights,upto 4 tracks as specified with 5mm thk clear sheet glass and aluminium standard extruded sections of 'INDAL' or approved equivalent make track section weighing 1.6 kg/m, shutter section weighing 0.5 kg/m, including provision of weep holes & water draining section at bottom & interlocking sections with all necessary fittings, fixtures, handles, neoprene gaskets, beading, locking arrangements, rubber linings, including opening for window AC using fixed glazing etc complete as per design & drawing and as specified.				
F.06	Providing, fabricating, fixing Aluminium Framed Louvred Window	Sq.m.	5		
	in position in line, level & plumb, at all heights,with 100mm x4mm wide frosted glass louvers @ approximately 50 mm c/c, using approximately 45mm x45mm x1.5mm thk. aluminium extruded sections with necessary fittings, roto operator, including opening for exhaust fan (if required), etc. complete as per drawings and specifications and as directed complete.				
G	SECTION 'G' PAINTING / WHITE WASH / COLOUR WASH.				
	Plastered Surfaces.				
G.01.	Providing all labour / materials / tools and applying 3 coats of white wash / colour wash	Sq.m.	2,140		
	of approved colour, shade and make to all internal, plastered surfaces, concrete surfaces, ceilings, AC sheet roofing, AC Sheet cladding at all heights so as to give good even shade including surface preparation, crack filling with approved putty of matching colour, staging and scaffolding, cleaning the spill after completion and as specified and directed complete.				
G.02	Providing and applying 3 coats of Acrylic Emulsion Paint	Sq.m.	1,875		
	Asian Paint or equivalent approved make, colour and shade to all plastered internal or external surfaces at all heights as per manufacturer's specification including surfaces preparation, crack filling with plaster of paris, including 2 coats LAPI or approved equivalent Putty, making up all undulation, depressions etc. in plastered surfaces, staging, scaffolding, cleaning and washing after completion of work etc. complete as specified and directed by the Engineer.				
	Providing and applying 2 coats of Acrylic Distemper	Sq.m.	2,350		
	TRACTOR of ASIAN Paints or equivalent approved make, colour and shade to all plastered internal or external surfaces at all heights as per manufacturer's specification including surfaces preparation, crack filling with plaster of paris, making up all undulation, depressions etc. in plastered surfaces, staging, scaffolding, cleaning and washing after completion of work etc. complete as specified and directed by the Engineer.				
G.03	Providing and applying 2 coats of Apex Ultima of Asian paints or Dulux Weather Shield Max of ICI	Sq.m.	14,225		

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	over one coat of approved primer of Asian paints / ICI (as per manufacturer's specification) premium water based, modified acrylic exterior emulsion with silicon additives conforming to IS 15489 standards with low VOC of 32.34 gms/lit (for Classic White shade) as per ASTM D 6886 as tested at Shriram Institute for Industrial Research (for Non Flat Coating type), 3-3.5 at 60 deg GH sheen levels and coverage of 55-60 sq ft/ltr over one coat of Asian Paints Exterior Wall Primer or equivalent and Asian Paints Wall Putty or equivalent as per the manufacturer's application procedure, of approved color and shade to the entire external surface of the building after scrapping, brushing, cleaning, washing the surface, and including scaffolding, curing, filling the crevices and cracks with filler materials, leveling, etc., all complete.				
G.04	Providing and applying 250 micron approved Epoxy Paint / Lining to concrete / Plastered surface of approved shade/ colour to external surfaces of buildings as per manufacturer's printed instructions including surface preparation, staging, scaffolding, etc.	Sq.m.	505		
SECTION 'I' WATERPROOFING					
I.01.	Providing and laying Cement Based Water Proofing	Sq.m.	625		
	average 150 mm thick. waterproofing layer of India waterproofing or approved equal, over RC slab consisting of providing cement slurry mixed with waterproofing compound, at desired proportions including grouting the cracks and crevices with cement slurry mixed with waterproofing compound, laying brick bats over cement mortar bedding to the required slopes for roof drainage, filling and grouting the joints with cement mortar, covered with jointless waterproof plaster in CM 1:3 with waterproofing compound of M/s Pidilite, ROFF or approved equivalent as per manufacturer's specifications, finished smooth with trowel in cement colour with false markings of 300 mm continued to adjoining walls upto height of 300 mm with a round vata, well cured, complete, including ten years guarantee written on stamp paper. (Laid area in plan shall be payable. No extra payment shall be made for vata, rounding at wall)				
SECTION 'J' FALSE CEILING AND ALUMINIUM CLADDING ITEMS (Refer Technical Specifications Section)					
J.01	Providing and fixing False Ceiling made out of 15 mm Mineral Wool tiles L MAXX / Fissura Fine	Sq.m.	225		
	or approved equivalent at all levels, in line & slopes including providing and fixing Precoated GI Angle of size 25x25x0.35 mm thick fixed to the brickwall / partition at the perimeter of ceiling with cylon sleeves & screws at 610 mm centers including providing and fixing T sections to form a grid of size 600 mm x 600mm with necessary laps by stitching or lapping as directed as per manufacturers specifications including anchoring, locking at edges and as per drawing and as directed.				
SECTION 'K' PLUMBING & SANITARY (Refer Technical Specifications Section)					
K.01	Providing and fixing. in position European Type Water Closet	No.	10		
	comprising of : a) White/ Colour glazed European closet 380mm high water closet b) Hinged Single solid black plastic seat with cover, CP hinges and ruber buffers. c) 15 litres capacity low level ceramic cistern including syphon, valveless fittings, brass ball valve with polyethylene float, suitable connections for inlet, outlet, overflow etc. complete d) 15NB heavy screw down CP brass stop cock with brass union and wiped joints at inlet connection. e) 32 NB CP short bend flush pipe including all fittings and fixtures. f) 100mm dia CI soil pipe and bend with cleaning caps, extending max. 1.2M outside the wall including lead joints, bends etc. complete.				
K.02.	Providing and fixing in position Flat Back Lipped Front Urinal				
	White/ Colour glazed earthen ware of approved make of approximate size 465mm x 355mm x 265mm with automatic flushing cistern with lid and non-ferrous siphon, including connection by 15 NB heavy screw down CP brass stop cock with brass union and wiped joints, CP brass main flush pipe and suitable spreaders fixed to walls with CP clips, CP waste coupling with CP dome shaped grating, 32 NB CP brass bottle trap, 32 NB concealed lead pipe drain from bottle trap to floor drain jointing etc. complete.Urinal Model No. 60.001 automatic cistern with lid Model No. 61.002. Set of two urinals with 10 litre capacity cistern.				
K.03	Providing and fixing Partition	No.	10		
	of size 1200 x 600 between urinals including stainless steel shoe support and fixing in masonry in CM 1:2 including polishing on both sides machine cut edges and corners splayed for the following.				
	25 thick Granite Slab Partition.	Sq.m	5		
K.04	Providing and fixing in position Wash Basin Counter Sunk type	No.	5		
	comprising of :				

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	a.White/ Colour glazed earthenware wash basin 600 x 400 mm size with one side tap Hindustan sanitary ware or equivalent b. Antisplash rim with two side tap holes. c. 32 NB CP waste coupling with rubber plug, chain, stay etc. d. 32mm dia CP bottle trap with union. e. 12mm screw down CP brass easy clean heavy type stop cock of approved make with 12mm PVC feed pipe with all brass specials wiped solder joints. f. 12mm dia brass heavy duty pillar tap of approved make g. 30 NB GI outlet connection up to floor trap, including any lead pipe required for jointing.				
K.05	Providing & fixing Stainless Steel Sink of M/s Nirali	No	5		
	of size 600mmx450mm in position at all heights including 32 dia PVC waste water pipe with required accessories, connecting the same with floor trap etc. complete all as directed.				
K.06	Providing and fixing heavy duty screw down CP Brass Bib Cock, with capstan head and CP Brass wall cap as below:-				
	12mm dia	No.	15		
K.07	Providing and fixing heavy duty screw down CP Brass concealed Stop Cock				
	12mm dia	No.	15		
K.08	Providing and fixing heavy duty Brass Ball Valves including floats				
	of high pressure type to IS:1703 with body lever and parts in brass and float in polyethylene, etc. Complete.				
	25mm dia.	No.	15		
K.09	Providing, laying, jointing, fixing and testing "B" class GI pipes				
	and pipe fittings, bends, tee, elbows, couplings, reducers, unions, check nuts etc. including fixing them with necessary clamps, with an application of anti corrosive paint and including excavation, making chases of required size and making good the same including testing, rectification of any leakage, commissioning complete.				
a	12mm dia	RM	150		
b	25mm dia.	RM	225		
K.10	Providing and fixing HDPE Water Storage Tank of 'Sintex'				
	or approved make including nozzles for inlet, outlet, overflow, drains, vent, float valve for inlet and hinged type manhole cover with locking device, with all necessary flanges, fittings and fixtures and testing for leakages etc. complete as specified by the Engineer				
	2000 Litres capacity	No	5		
K.11	Providing and fixing in position Floor Trap				
	of self cleaning design fixed in (1:2:4) cement concrete with CI/ HDPE soil variety plug bend of equired arm jointed by lead caulking including cutting holes in slabs, walls and making good the same including CP gratings, 'P' or 'S' trap etc. complete as directed,				
	75mm Dia C I Floor Trap	No.	10		
K.12	Providing and fixing best quality salt glazed Stone Ware Gully Trap	No.	10		
	in position, size 150mm square/ round with C.I. grating at top including embedding in cement concrete 1:4:8, construction of brick chamber 300 x 300 clear size in 230mm thk brick masonry inside in CM 1:5 on a bed of CC 1:3:6 100 thk, 12mm thick plastering in CM 1:3 on all faces of chamber finished smooth with a floating cement, providing and fixing medium duty CI frame and cover on the top of chamber, painting the grating frame and cover with bitumastic paint including excavation and back filling complete.				
K.13	Providing and fixing in position uPVC Rain Water Downtake Pipes of M/s Finolex, M/s Prince with Stainer				
	or approved equivalent, of class 3 (6kg/sqm pressure rated) as per IS 4985, including jointing with seal ring/ rubber ring as per IS 5382, leaving 10mm gap for thermal expansion, including required specials, MS/ GI clamps, etc complete, all as directed. (Specials include all bends, offset shoes, junctions etc.)				
	110 mm dia (Overall diameter)	Meter	90		
	160 mm dia (Overall diameter)	Meter	150		
	SECTION "L MISCELLANEOUS WORKS.				
L.01	Providing and fixing G.I Chain Link barrier	Sq.m.	400		
	Providing and fixing G.I Chain Link Fencing above Dyke Wall & Receiver section wall, with 50x50x10 gauge GI chain link, 3 mm dia GI straining wires(3 rows), including all accessories clips, bolts, clamps, flats, GI nibs, screws, fixing to structural support etc. as specified complete. Structural supports will be Angle of 75 x 75 x 6 mm. Cost should include supply and fixing of structural post also				
L.02.	Providing and fixing GI Barbed Wire Fencing 2.0 m total height	Meter	475		

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	including 0.450 m with slant as anticlimbers, 9 rows on vertical and 3 rows on anticlimbers of G.I. barbed wires of 2 strands 12 gauge and 4 barbed points of 14 gauge including cross barbed wires, fixed to Steel post of size ISA 75x6 mm as per drawings spaced at maximum distances of 2.5 m centres and strainer posts at 20.0 m centres. The rate also includes inclined struts on each side of vertical posts at all corners and free ends including excavating and filling, embedding Steel posts in the PCC 1:3:6 block as shown on drawing and as specified. (PCC 1:3:6 block to be measured and paid under relevant item).				
L.02.	Providing & Fixing C I Rungs in concrete or masonry as directed and as shown in drawing	Kg	1,875		
L.03	Providing, Laying and fixing M.S. Gratings For Process Drains within the section (35 Kg/sqm)	Sqm	275		
L.04	Providing, Laying and fixing M.S. Chequered plate (6 mm thick) above Electrical Cable Trenches	M.T.	5		
L.05	Providing, fabrication and erection of Structural Steel for Inserts & Supports or any other structural works to be grouted or fixed in Concrete	M.T.	5		
	including all labour tools, tackles, machinery, cutting, welding, grinding, bending, drilling bolt holes, including all consumables as rivets, bolts , nuts, check nuts, plates / spring washers, washers approved electrodes etc. wastage, welding including testing of welds, and at all heights for columns, beams, trusses, Purlins, staircases, ladders, cage ladders, crane girder rails, struts, bracing, ties, sag rods etc. made out of rolled steel sections, cold formed sections, built up sections / hollow tubular sections etc. as specified in the drawings and as directed. (Weight of consumables, welds shall not be measured and shall not be paid separately)				
L.10	Providing and fabricating and fixing of M.S. Anchor / foundation Bolts				
	including, consumables like washers, nuts, check nuts, and fixing in position to line, plumb and level with / without templates & erection assembly but as per drawings including sleeves with bottom plates complete.				
	16 mm to 40 mm dia bolts	M.T.	10		
L.11	Providing and laying 250 Micron HDPE Sheet on finished and levelled surface etc. complete	Sqm	3,750		
L.12	Lab Platform	Sqm	50		
	Item includes providing Lab platform with white Acid Resistant tiles on Kadappa and stainless steel sink of approved make with supporting brick work of height 0.80 m. in C.M. (1:5) with neat sanla plaster to brick work with back side provided with white johnson glazed tiles of 0.45 m. ht with necessary arrangement of inlet & outlet fixtures to sink with connection to nearest supply/delivery point etc complete . Item to be carried out as per drawing and design				
M	SECTION "M" BOUNDARY WAL				
M.01	Excavation in Ordinary Soils				
	as defined in IS 1200, clay, black cotton, murrum, hard murrum, sand, sandy soil, filled up grit, small pebbles, gravel, rubble isolated boulders up to 0.05 cu.m. etc without blasting which can be removed manually by pickaxes, shovels, spades etc. or mechanically operated tackles, as pick shovels truck loader etc. as defined in IS 1200 for all types of foundations / footings, rafts, ramps, steps, trenches, ducts, plinth beams, pits or any other structure etc. (excluding excavation for site grading) including shoring, strutting, de-watering or diverting surface water and back filling in foundations and plinth with approved excavated material laid in layers of not more than 150 mm thick watered and compacted to 90% Proctor density manually or mechanically, complete including disposing off all surplus or unusable excavated material to selected site, within owner's premises upto a lead of 1.0km, carting, spreading and levelling as directed. (Measurement for this item shall be considered for PCC area).				
	Up to 2.00 m depth below existing ground level.	Cum	3,550		
M.02	Providing, mixing, laying Plain Cement Concrete				
	as specified below at all heights and depths as per IS 456 using 20 mm and down graded approved coarse aggregate, as levelling course under footings, foundations, rafts, ramps, pavements, plinth beams, walls and trenches, equipment foundations, coping, sills, and inclusive of shuttering (if any required) levelling ramming, curing etc. complete.				
	In grade M 10 1:3:6	Cum	125		
M.03	Providing, supplying and laying Reinforced Cement Concrete (RCC) grade M20 for Columns Footing and Ground Beams				
	including placing, vibrating, curing and roughening the surfaces wherever required at all heights and depths using 20 mm maximum to 6 mm size graded aggregates as per drawing and specifications but excluding reinforcement and shuttering as specified and directed to give leakproof structure including including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability				

**Dabra Alcobrew
CIVIL CONSTRUCTION WORK**

Dabra Alcobrew CIVIL CONSTRUCTION WORK					
Tentative Civil BOQ					
ITEM CODE	DESCRIPTION	UNIT	Quantity	Rate (INR)	Amount (INR)
	as per direction of Engineer-in-charge. Also repairing the leaks, achieving complete water tightness etc. complete as specified and directed.				
	M20 Grade RCC	Cum	300		
M.04	Providing, transporting, storing, and placing in position Reinforcement Steel,				
	in R. C. C. works as per drawings, specifications, Indian standards and as per ductility detailing conforming to local standards wherever required including preparation and getting approval of bar bending schedule, straightening, removal of mill scales and rust, cutting, bending to the required shape, placing and binding in position at all heights including the cost of approved type of binding wire etc. complete:				
	High strength deformed bars (FE500)	MT	25		
M.05	Providing, making, fixing and supporting Formwork				
	of steel plates or marine plywood for concrete elements in Beams, Columns, Portals & Brackets, slabs, walls, pedestals, liquid retaining structures. pits, trenches, lintels, chajjas etc. at required slopes, line and plumb at all levels including scaffolding, centering, maintaining after concreting, stripping the same after the specified period for following sub items:				
	Plain Surfaces	Sqm	2,100		
M.06	Providing and laying Brick Masonry				
	with best quality, locally available, approved bricks in foundations, sub-structures, super structure, walls, pillars, chambers, dyke walls, steps and platforms in cement mortar 1:5 including staging, scaffolding, and finishing the joints and curing etc. for the following sub items:				
	230 mm and above	Cum	375		
M.07	Providing and Laying at all heights, 15 mm thick Sand Faced Plaster	Sqm	4,000		
	to external surfaces of concrete or masonry in cement mortar 1:4 in one coat using sponge or sand facing machine including necessary scaffolding, hacking of concrete surfaces, raking of masonry joints, curing, including gooves if shown in drawing etc. complete				
M.08	Providing and applying 2 coats of approved Cement Based/ Texturised Paint	Sqm	4,000		
	of approved shade/ colour to external surfaces of buildings as per manufacturer's printed instructions including surface preparation, a coat of primer, staging, scaffolding, etc.				
M.09	Providing and fixing G.I Chain Link barrier	Sqm	800		
	at all levels, with 50x50x10 gauge GI chain link, 3 mm dia GI straining wires(3 rows), including all accessories clips, bolts, clamps, flats, GI nibs, screws, fixing to structural support, etc. shown on drawings and as specified complete. (Structural supports will be paidsepartely under relevant itemt)				
M.10	Providing and fixing in position GI gates				
	2.4m high with 50mm dia 'B' class GI pipe frame all round and one diagonal with GI chain link 50x50x8 gauge mesh welded to frames with locking arrangement, plunger bolts, CI wheels and fixtures, M5 angle rail embedded in concrete with anchors etc.including two coats of metal primer and two coats of enamel paint finish.				
a	Single Leaf Gate	MT	1		
b	Double Leaf Gate	MT	5		
SECTION "N" SITE GRADING WORKS					
N.01	Excavation for General Site Grading				
	in all types of soils other than rock to any depth including Clearing of all Vegetation stumps, bushes, logs and other perishable and objectionable organic materials including dewatering, separating and stacking boulders/stone materials including filling back selected earth available from excavation within the plot in layers not exceeding 150 mm, watered, rolled and consolidated to attain 90% standard proctor density at optimum moisture content, to required line and levels etc. as specified as under:				
a	Cutting	Cum	9,355		
b	filling back within owner's premises (Lead of 500m)	Cum	9,355		
SECTION 'M' : ROADWORKS					
Providing and laying Bitumen Roads as per following:					
M.01	Excavation in ordinary soil	Cum	3,750		
	or filled up material for forming the sub base, including clearing vegetation if any, watering and compacting the sub base to required slopes, cambers, grades with 10 to 12 ton roller including all labor, plant, equipments, and disposal of excavated material within plot boundaries as directed by Engineer		0		
M.02	Providing and laying Granular Sub Base (GSB) for roads, shoulders,	Cum	4,500		
	consisting of sand, murum, crushed stone and gravel mixed in proportions as specified below: for sub grade to a compacted specified thickness laid in double layer using good quality graded materials from approved source and mixed in the specified proportion including cost and conveyance of all materials, stacking and mixing in the specified proportion, spreading after mixing to required camber, levelling, watering with all leads to obtain moisture levels of mix between 1% above and 2% below the optimum moisture				

**Dabra Alcobrew
CIVIL CONSTRUCTION WORK**

Dabra Alcobrew CIVIL CONSTRUCTION WORK					
Tentative Civil BOQ					
ITEM CODE	DESCRIPTION	UNIT	Quantity	Rate (INR)	Amount (INR)
	content at the time of compaction and compacting each layer with compacting the sub base with 10 to 12 ton roller to obtain the required proctor density including all labour, charges for all tools and plants employed and all their incidental charges etc. complete as per IRC /and MORTH specifications and as directed				
	(NOTE :Granular sub base shall be extended on either side of road /paving minimum 300 mm or as directed by the consultant and Engineer In Charge and the extra width as authorised will be paid under the item as per the actual work carried out. CBR value shall not be less than 20 for sub base) (i) 150 mm or any thickness as specified and instructed by the consultant and Engineer-in-Charge.				
	Providing, laying, spreading and compacting WET MIX MACADAM (WMM) with graded stone aggregate	Cum	2,245		
	over the compacted sub base or GSB or soling for roads, shoulders, widening of roads, turnings using 53mm to 0.075mm including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers not exceeding 75mm compacted thickness with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge				
	Providing and applying Premix Carpet of 40mm compacted thickness including Tack Coat	Sqm	7,500		
	of hot bitumen of grade 30/40 over semi grouted road surface at the rate of 70 kg / 100 sqm. including cleaning the surface of dust and foreign matters, making it dry. Over the tack coat/ primer coat providing and laying Premix Carpet with 20 mm downgraded aggregates premix with hot maxphalt (80 / 100 grade) at the rate of 4 kg / Sqm of surface area, to a compacted thickness of 40 mm with 10 to 12 ton roller, to proper level, camber and grade etc. complete all as directed				
	Providing and laying 10mm thick Seal Coat	Sqm	7,500		
	with grit of size not more than 3 to 4mm, mixed with hot bitumen (80 / 100 grade) at the rate 3.0kg / sq.m by pressure distributor and blinding the surface rolling the surface smoothly with 10 t roller, to proper camber, superelevations and gradient etc. complete as specified and as directed				
	SECTION "P" : DRAINS AND CULVERTS				
P.01	Excavation in ordinary soils				
	as defined in IS 1200, clay, black cotton, murrum, hard murrum, sand, sandy soil, filled up grit, small pebbles, gravel, rubble isolated boulders up to 0.05 cu.m. etc without blasting which can be removed manually by pickaxes, shovels, spades etc. or mechanically operated tackles, as pick shovels truck loader etc. as defined in IS 1200 for all types of foundations / footings, pile caps, rafts, ramps, steps, trenches, ducts, plinth beams, pits, drains or any other structure etc. including shoring, strutting, de-watering or diverting surface water and back filling in foundations and plinth with approved excavated material laid in layers of not more than 150 mm thick watered and compacted to 90% Proctor density manually or mechanically including carting away the surplus excavated earth to a convenient place or to low lying areas and spreading, compacting the same within 500 m from the nearest edge of excavation etc. as directed and instructed.				
	Up to 1.50m depth below existing ground level.	Cum	1,750		
P.02	Disposing off, to selected site beyond 1km & upto a lead of 3km,				
	all surplus or unusable excavated material carting, spreading and levelling as directed. Payment of this item shall be based on the actual quantity of excavation which needs to be disposed off from volumetric calculations.				
P.03	Providing, mixing, laying Plain Cement Concrete				
	as specified below at all heights and depths as per IS 456 using 40 mm and down graded approved coarse aggregate, as levelling course under footings, pile caps, foundations, rafts, ramps, pavements, plinth beams, walls and trenches, equipment foundations, coping, sills, and inclusive of shuttering (if any required) levelling ramming, curing etc. complete.				
	In grade M 10 1:3:6.	Cum	200		
P.04	Providing and laying Reinforced Cement Concrete (RCC) M20				
	grade with 20mm and down graded aggregate as per IS 456 in all types of works in foundations and super structure (like footings, pedestals, rafts, beams, columns, slabs, walls, equipment foundations etc.) including placing, vibrating, levelling, finishing, curing etc. making openings, leaving sleeves, drip moulds etc. as per drawings excluding form work and reinforcement which will be paid separately				
P.05	Providing & laying M20 Grade concrete	Cum	75		

**Dabra Alcobrew
CIVIL CONSTRUCTION WORK**

Dabra Alcobrew CIVIL CONSTRUCTION WORK					
Tentative Civil BOQ					
ITEM CODE	DESCRIPTION	UNIT	Quantity	Rate (INR)	Amount (INR)
	using 20mm and downgraded metal as per specifications in slabs over hume pipes, in encasement of hume pipes, etc, including form works, curing and finishing to levels, slopes as required but excluding reinforcement steel which will be paid separately				
P.06	Providing and erecting Precast Concrete Covers of RCC M20 grade				
	using 20mm and down graded aggregates at all levels, in position, including all form work, (but excluding the cost of reinforcement which will be paid separately), vibrating, compacting, curing, lifting hook arrangement, storing, stacking, handling etc. complete.				
a	75mm thk.	Sqm	50		
b	100 mm thk.	Sqm	50		
P.07	Providing, transporting, storing, and placing in position Reinforcement Steel,				
	with 20mm and down graded aggregate as per IS 456 and as per ductility detailing conforming to IS 13920 wherever required including preparation and getting approval of bar bending schedule, with minimum cement content 325 Kg/Cu.m in all types of works in foundations and super structure (like footings, pedestals, rafts, beams, columns, lofts, slabs, walls, chajjas, facias, staircase, shelves, bands, equipment foundations etc.) including placing, vibrating, levelling, roughening, finishing, curing etc. making openings, leaving sleeves, drip moulds etc. as per drawings excluding form work and reinforcement which will be paid separately for the following sub-items. .				
	High strength deformed bars of grade Fe 415.	MT	5		
P.08	Providing and laying Brick Masonry				
	with best quality, locally available, approved bricks in foundations, sub-structures, super structure, walls, pillars, drains, chambers, dyke walls, steps and platforms etc. including staging, scaffolding, and finishing the joints and curing etc. for the following :				
	For 230 mm and above thick. masonry in CM 1:5 in drains, foundations and up to plinth level.	Cum	675		
P.09	Providing and laying 15mm thk Waterproof Plaster	Sqm	3,275		
	to concrete or masonry surfaces at all heights in cement mortar 1:4 with waterproofing admixture FOSROC or equivalent approved as per manufacturers specifications including all scaffolding, hacking of concrete surfaces, coving at corners and edges, curing etc. complete & as directed to provide a leak proof surface.				
P.10	Providing, fabricating and fixing in position Inserts	MT	1		
	consisting of MS plates, anchor strips, angles, channels and rod embeddings, with hold fasts etc. including fixing in position to line, level as per drawing.				
P.11	Providing and laying to slopes and proper gradient R.C. Hume Pipe				
	NP2 class conforming to IS 458 with collars including cutting out pockets for collars jointing with cement mortar(1:1), including cutting of pipes wherever required, curing and testing of joints as directed etc. complete but excluding end masonry/concrete walls, bedding/ encasement concrete if required, excavation and backfilling which will be paid separately in relevant items.				
a	150 mm dia	Meter	100		
b	200 mm dia.	Meter	100		
c	300 mm dia.	Meter	47		
d	450 mm dia	Meter	40		
e	600mm dia	Meter	40		
	Total Amount				
	Civil Cost				