

STATE BANK OF INDIA					
RENOVATION OF HOSTEL BLOCK - LEFT WING AT SBILD TRAINING CENTRE, MASULIPATNAM					
BILL OF QUANTITIES - CIVIL WORKS - LEFT WING					
S.No.	Description	Qty	Unit	Rate	Amount
1	Buy Back - Removing Existing steel windows & ventilator without Grills (14 Rooms - Windows - 2nos and Ventilator - 3nos in each room) with Mosquitos Net, False ceiling, Curtain rod, Blinds, Doors with frame in Toilets and Room Entrance. Removing the debris clear away from the premises upto Municipal ground as directed by the client/ architect. Quantities are approximatly. Contractors are advised to visit the site before quote. Rate should not be less than 40,000 (Fourty Thousand)	-1.00	LS		
2	Dismantling Existing Toilet flooring, Brick jelly filling upto mother slab, chipping wall dado, pipe lines, sanitary fittings, vitrified tile floor (Rooms, Lobby, Staircase, Steps and Head Room) and removing the debris clear away from the premises upto municipal ground as directed by the Client / Architect.	14.00	Nos		
3	Dismantling 230mm Brick Work				
	Dismantling existing 230mm thick brick walls in CM including the plaster finish and lintels.and removing the debris clear away from the premises upto municipal ground as directed by the Client / Architect. Rate should be inclusive of necessary Scaffolding, etc, complete.	39.00	Cum		
4	Dismantling 115mm Brick Work				
	Dismantling existing 115mm thick brick walls in CM including the plaster finish and lintels and removing the debris clear away from the premises upto municipal ground as directed by the Client / Architect. Rate should be inclusive of necessary scaffolding etc., complete.	239.00	Sqm		
5	Chipping Existing Plasteriing and clear the debris away from the premises upto municipal ground as directed by the Client / Architect. Rate should be inclusive of necessary Scaffolding, etc., complete.	1,319.00	Sqm		
6	Dismantling RCC work				
	Dismantling existing RCC work including the weathering course removal, rod cutting and removing the debris clear away from the premises upto municipal ground as directed by the Client / Architect. Rate should be inclusive of necessary Scaffolding, etc., complete.	24.00	Cum		

S.No.	Description	Qty	Unit	Rate	Amount
7	Removal of Rainwater pipe				
	Removing existing Rainwater pipe and removing the debris clear away from the premises upto municipal ground as directed by the Client / Architect. Rate should be inclusive of necessary Scaffolding ,etc., complete.	44.00	Rmt		
8	Re-routing Existing terrace Pipe line as per the site condition. Rate inclusive of necessary new pipe lines, fixtures etc complete	1.00	Ls		
9	Anti-Termite treatment				
	Supplying the chemicals & carrying out pre-construction Anti-termite treatment with chlorpyrifos or Chlordane E.C 20% with 1% concentration at the various stages of construction as per IS 6313 (Part II 1981 and as recommended by the chemical manufacturer to safeguard the building against termite including execution and submission of guarantee for a period of 5 years against any subterranean pests infestation. This work is to be got executed through Pest Control (India) Ltd as per their specifications or an approved equivalent specialized agency. Drilling to the Executed along the external & Internal length of the wall at every 600mm (approx.) intervals in floor and upto window sill level (horizontal & Vertically) for external outer walls. Mode of Measurement consider for length of the wall one side only for all the walls.	308.00	Rmt		
10	Earthwork in Excavation				
	Earthwork in Excavation, manually or by mechanical means, for foundation in soft rock, old cement / lime mortar Brick/RCC/Stone masonry foundation including removing the excavated material from foundation, stacking serviceable material beyond building area as directed at site. The Rate to include dewatering subsoil/ rain water, preparing the bed for the foundation, shoring sides wherever required and back filling foundation trenches with available approved quality surplus excavated material in layers in exceeding 20 CM, ramming, watering complete. Rate should also include disposal of surplus excavated material/debris to approved munciple dumping yard with all lead and lift, including cost of transportation etc. complete as directed by Engineer-in-Charge.	86.00	Cum		
11	PCC 1:4:8				
	PCC 1:4:8 (1 part cement:4 parts Sand:8 parts stone aggregates of size 40 mm and down graded including centering and shuttering if required, laying spreading, ramming, consolidating as per requirement and curing etc. complete as directed.	20.00	Cum		

S.No.	Description	Qty	Unit	Rate	Amount
12	PCC 1:3:6				
	PCC 1:3:6 (1 part cement:3 parts of Sand:6 parts stone aggregates of size 6 mm and down graded including centering and shuttering if required, laying spreading, ramming, consolidating as per requirement and curing etc. complete as directed.	17.00	Cum		
13	RCC M25				
	Providing & laying in position Mannual Mix Concrete machine vibrated plain cement concrete of controlled grades for reinforced cement concrete structural elements, as per structural design and as directed in specified compressive strength compressed in N/mm2 at 28 days as per IS 456-2000 using 20 mm or as specified size of black granite aggregates including design of concrete mixes, weigh batched proportioning, necessary lift and lead as specified finishing concrete surfaces, curing etc. complete Including centering / shuttering and Excluding reinforcement. The conversion of weigh volumetric one, if desired by the contractor, should be got approved from Engineer before execution. For concrete grade M 25 for Columns at all levels below and up to highest plinth level. M25 reinforced cement concrete in with a minimum cement content of 340 kg/cum	68.00	Cum		
14	Steel Reinforcement				
	Providing, fabricating and fixing in position reinforcement steel confirming to IS 1786 , CTD bars of grade Fe 500 / TMT bars produced by original manufacturer like SAIL / TISCO / Vizag including binding with 16 gauge GI wires (to be supplied by the contractor at his own cost). Welding if necessary etc. complete as directed. Payment will be made on the length basis and converted into weight by using standard. IS Co-efficients (rolling margins and wastage will not be paid).	7,140.00	Kg		
15	Alteration in Extg. M.S.Grill				
	Removing and Refixing existing MS Grill with necessary alteration with MS Rod/Flat to maintain the existing design and pattern and grill to be fixed in the Granite cladding.Rate should be inclusive of 2 Coat of Enamel paint over a coat of Anti-Corrosive primer.	85.00	Sqm		
16	Plinth protection				
	100mm thick Cement concrete plinth protection around the building, using 12mm to 19mm gauge hard granite metal, laid over well consolidated river sand bed and top finished smoothly. Rate should be including necessary shuttring, etc., complete.	85.00	Sqm		

S.No.	Description	Qty	Unit	Rate	Amount
17	230mm thick Brick Work				
	Providing and constructing brick masonry in C.M1:6(1 Cement, 6 Sand) with First class country burnt bricks of 22.9x11.2x7 cm size and approved quality(average compressive strength not less than 50kg/cm2) including scaffolding,curing and conveyance of all materials,labour, lead, lift, etc. complete for all types of masonry works as directed by Engineer-in-charge . Super Structure	36.00	Cum		
18	115mm thick Brick Work				
	Half brick masonry 115mm thick partition walls in CM 1:4(1 Cement, 4 Sand) using bricks of strength 35 Kg/Sq.cm, reinforced with hoop iron 25mm by 15 gauge at every 4th course or 2 nos of 6 mm dia MS round rods at every 4th course embedded in CM including scaffolding, staging, curing, etc.,complete.	300.00	Sqm		
19	UPVC Framed 3Track Sliding Window With Mosquito Net Shutter and Louvered Ventilator with Exhaust Fan provision and S S Finish metal Mosquito Net covering with frame at outer wall				
	Providing & fixing in position factory made 3Track UPVC white colour sliding window up to 1.50 M to 2.4M in height dimension comprising of UPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 15. to 2.52 mm thick depending upon the window galvanised mild steel section made from roll forming process of required length (shape & size according to UPVC profile), appropriate dimensions of UPVC extruded glazing beads and UPVC extruded interlocks, EPDM gaskets, wool pile, touch locks with hooks, with single nylon rollers (weight bearing capacity to be 80/ 150 Kg), SS fasteners 100 x 8 mm size for fixing frame to finished wall and 5 degree gradient slope in track (drainage track) comes with threshold, low threshold without threshold option & necessary stainless steel screws etc 8 mm thick toughened glass panes (ST 136), fixed in shutters, flush handle, C handle, D handle with locking arrangements as per manufacturers specifications etc. complete.	11.00	Sqm		
20	Inner wall Plastering				
	Providing and applying 12 mm thick plain cement plaster at all heights and below plinth in C:M 1:4 (1 part cement: 4 parts Sand)cement mortar to the inner walls over surface as specified including scaffolding, curing and finishing smooth. The plaster surface shall be rubbed with Iron Plate, till the surface shows cement paste in line and level complete as directed	1,486.00	Sqm		

S.No.	Description	Qty	Unit	Rate	Amount
21	Outer wall Plastering				
	Providing and applying average 12 mm thick Sand faced cement plaster at all heights cement mortar 1:4 (1part cement : 4 parts of Sand) using sponge to give uniform finish, on outer wall surfaces as per detail, including scaffolding, curing etc., complete as directed.	200.00	Sqm		
22	Ceiling Plastering				
	Providing and applying sand faced cement plaster average 10mm thk in two coats at all level with cement mortar 1:3 (1part cement : 3 parts of Sand) and using sponge to give uniform finish in ceiling at all types of concrete block surfaces. Rate should be including scaffolding, curing etc., complete as directed.	68.00	Sqm		
23	Water Proofing Plastering				
	Providing and Applying Two part solvent free resin based Bonding Agent, Dr. Fixit Epoxy Bonding Agent or Equivalent over the entire surface at a coverage of 0.5 kg/ Sqm. When the surface is still tacky, Broadcasting of Zone 3 Graded fine sand to create a mechanical key for plaster. Rate should be inclusive of necessary scaffolding , etc., complete.	934.00	Sqm		
24	Primer Paint				
	Prepare surface and apply one coat of primer after thoroughly scrapping the Existing surface. Rate including scaffolding at all levels.	1,565.00	Sqm		
25	Inner Ceiling Primer Paint				
	Prepare surface and apply one coat of primer after thoroughly scrapping the existing surface.Rate including scaffolding at all levels	125.00	Sqm		
26	Exterior Weather-Proof Emulsion paint				
	Prepare surface and paint two coats of Exterior weatherproof emulsion paint of approved colour and shade over a coat of primer.Rate including scaffolding at all levels	1,930.00	Sqm		
27	Enamel Paint				
	Prepare surface and applying two coats of Synthetic Enamel paint of approved colour and shade over a coat of anti corrosive primer after thoroughly scrapping the Existing surface. Rate including scaffolding at all levels	250.00	Sqm		
28	Vitrified Tiles Flooring				
	Providing and fixing 1st quality Vitrified tiles (600 x 600mm) of approved make and shade, and finished neatly to the manufacturers specifications. (Basic cost of Tile should not be less than Rs.750/Sqm). Single Batch tile only accepted. If any other hallow sound, scratches found the same shall be replaced at own risk and cost.	424.00	Sqm		

S.No.	Description	Qty	Unit	Rate	Amount
29	Vitrified tile skirting				
	Providing and fixing 10mm thick vitrified tile for skirting of 100mm height with 12mm thick base mortar of CM 1:3 (1 cement : 3 sand) and filled neatly etc. complete.(Basic rate should not be less than - Rs.750 / Sq.m). Rate should be inclusive of cutting the existing wall and flush with existing wall. 100mm high	431.00	RM		
30	Granite Steps				
	Providing and Laying polished 18mm thick Large piece Granite of approved colour and shade for Riser and Thread in Staircase Steps with half round nosing, over a bed of cement mortar 20 mm thick 1:4 (1 Cement : 4 Sand), including cost of polishing, nosing. (Basic Material cost for granite not less than Rs.3000/Sqm) etc., complete. Rate should be including necessary Granite Skirting.				
a	For Riser	11.00	Sqm		
b	For Thread	77.00	Sqm		
31	Granite cladding				
	Providing and Fixing 18mm thick Granite Cladding for all around the windows jambs with edge nosing on both sides , of approved Colour, shade and size in facing of walls with base mortar 1:4 (1 Cement : 4 Sand) Basic Material cost for granite not less than Rs.3000 per sqm)	71.00	Sqm		
32	Ceramic tiles flooring				
	Providing and fixing approved make & shade of tile flooring of size 300mm x 300mm over and including a 20mm thick base of CM (1:3) (1 cement: 3 Sand) finished neatly to manufacturer's specifications. (Basic cost of Tile should not be less than Rs.550/sqm)	55.00	Sqm		
33	Wall Dado				
	Dado on walls with approved make and design of tile of size 300 x 450 / 300 x 600mm of minimum thickness 7mm set with paper thin joints, over and including a 12mm thick base of CM 1:3 (1 cement : 3 Sand) with white cement slurry, to specification in:(Basic cost of tile should not be less than Rs.600/sqm). The corners to be finished with Dural Nosing. Additional cost not paid for Highlighter tiles.Highlighter as per Architect Pattern.	298.00	Sqm		
34	Brick Jelly concrete filling				
	Providing and filling brick jelly concrete in Toilet sunken area with necessary chemical mixing plastering type water proofing treatment etc complete.	12.00	Cum		
35	Water Proofing				
	20/25 mm cement plaster 1:3 (1 cement : 3 sand) mixed with water proofing compound of approved brand in recommended proportion including rounding off junction of vertical and horizontal surface. Rate should be inclusive of water testing at adequate period, Three year warrenty letter to be submitted by the contractor	55.00	Sqm		

S.No.	Description	Qty	Unit	Rate	Amount
36	PVC rain water pipes				
	Providing and fixing in position PVC rain water pipes 6 kg/ sq. cm of approved quality with all necessary outlet bends, shoes, offset pieces, with standard GI clamp, TW fixing blocks, cutting and waste including painting two coats of synthetic enamel paint over an anticorrosive primer to GI clamps. Rate to include for providing and fixing suitable cast iron gratings at the entrances to rainwater pipes, each set at right angles to the other and fixed in CM (1:3)				
a	110 mm diameter	9.00	RM		
b	160 mm diameter	65.00	RM		
37	Terrace water proofing				
	Surface Preparation				
	Clean the Terrace surface thoroughly removing dust, debris, and any loose particulates.				
	Crack and Gap Repair				
	Identify and fill all cracks, gaps or damaged areas with Dr. Fixit URP Polymer chemical mixed paste. Seal all joints with a suitable sealant.				
	Priming				
	Apply First coat of Dr. Fixit Primeseal Primer diluted with water in the ratio of 2:1 coating.				
	Apply Second Coat of Dr. Fixit Roofseal select coating after 4 hours gaps.(0.7kg/Sqm)				
	Reinforcement				
	Providing 45GSM Glass Fiber Mesh pasting.				
	Waterproofing Solution				
	Apply Third coat of Dr. Fixit Roof seal select coating perpendicular direction to the second coat after 4 hours gaps.				
	Apply Fourth coat of Dr. Fixit Roof seal select coating after 4 hours gaps.				
	Water Testing for 24 hours with proper filling of water.				
	NOTE: Contractor should execute the work from the approved Manufacturers applicator and submit 5 (Five) year warrenty certificate from the Manufacturers. Make : Fosroc, Dr.Fixit, Sika. Rate should be inclusive of Removing the Existing Weathering Course upto mother slab and Bittumen water proof treatment layer etc, complete and removing the debris clear away from the premises upto municipal ground as directed by the Client / Architect.	879.00	Sqm		
38	Screed Concrete				
	Providing , Laying and finishing average 75mm thick 1:1:2 concrete protective screed (using 12 - 20 mm stone chips) with the required slope with necessary grid pattern grooves at top surface and top surface finished with Dr. Fixit PU coat on entire surface including wall surface as directed by Engineer-in-charge.	743.00	Sqm		

S.No.	Description	Qty	Unit	Rate	Amount
39	European Water Closet - Floor Mount				
	Supplying and fixing approved make Floor Mounted One Piece European Water Closet (EWC) Hindware - CEDAR - 670 x 350 x 750mm or equivalent make.	10.00	Nos		
40	European Water Closet - Wall hung				
	Supplying and fixing approved make Extended Wall Mounted European Water Closet (EWC) with flush tank Hindware - CONSTELLATION - 690 x 380 x 790mm / 20028 / Cist- 21059 or equivalent make.	4.00	Nos		
41	Half Pedestal Wash Basin				
	Supplying and fixing approved make Half Pedestal wash basin with 32mm CP waste fittings with extension piece fitted with a pair of CI brackets complete with all fixing materials such as brass screws and T.W. plugs etc. Hindware - VIKING -10008 - 550 x 400mm or equivalent make	14.00	Nos		
42	Oval Wash Basin - Under counter				
	Supplying and fixing lavatory suite comprising oval wash basin Under counter with 32mm CP waste fittings and CP bottle trap and with extension piece, complete with all fixing materials such as brass screws and T.W. plugs etc. Hindware - ZEN - 560 x 450mm or equivalent make	1.00	No		
43	Urinal				
	Supplying and fixing approved make & colour glazed large urinal with necessary 32mm CP waste coupling and bottle trap with extension piece 15mm CP tube and spreader for urinal. Hindware - OPUS - 96014 - 305 x 380 x 650 or equivalent make	1.00	No		
44	Wall Hung Granite Partition				
	Supplying and fixing both side polished 18mm thick, Jet Black Granite slab Partition of size 1500 x 600mm fixing to wall dado using 3 Nos. of suitable chromium plated brackets with C.P. bolts, nuts, washers, cutting to required shape, polishing to all the exposed surfaces and edge chamfering with approved pattern etc complete	1.00	No		
45	Mirror with SS Stud				
	Supplying and fixing 6mm thick approved make clear mirror made out of 12mm thick BWR plywood back and finished neatly with necessary SS Stud. Rate should be inclusive of all necessary fixtures and fittings.	12.00	Sqm		

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46	Towel Rack				
	Supplying and fixing S S Towel Rack of approved make 20mm dia, 600mm long with concealed brackets fixing to wall dado using suitable size non-corrosive screws, teak wood plugs etc. complete. Hindware - AMZ - EXL - 567 (600 x 240 x 220mm) or equivalent make	14.00	Nos		
47	Coat Hooks				
	Supplying and fixing approved make coat hooks with twin arms, heavy quality fixing to Toilet door shutter back side with CP screws etc, complete. Hindware - F880004 or equivalent make	14.00	Nos		
48	S S Grab Rail with Hinges				
	Suppling and fixing approved make Grab bar with Hinges Parryware - Heavy Duty Flip up Grab Bar - T6608A1 or Equivalent make.	2.00	Nos		
49	S S Grab Rail				
a	Supply and fixing approved make Grab Bar. Parryware - T6606A1 or equivalent make	2.00	Nos		
b	Supply and fixing approved make Grab Bar. Parryware - T6605A1 or equivalent make	2.00	Nos		
50	PVC Pipe for waste Lines				
	Supplying and fixing approved make PVC pipes and specials equivalent make including cutting pipes, fixing to walls or brackets using MS clamps, making joints using solvent cement solution, using ring seal couplers on size of pipes of fully sizes cutting walls or concrete surface, making grooves in masonry to conceal the pipes, restoring damaged portions with CM 1:4 and jelly, to their original condition, conducting leak test, fixing and removing temporary scaffolding, MS frame work & clamp for pipe laying, conveying dismantled debris and disposal of debris away from the size etc. complete.				
a	40mm dia. 6kg class pipes.	30.00	Rmt		
b.	63mm dia. 6kg class pipes.	25.00	Rmt		
c.	75mm dia. 6kg class pipes.	150.00	Rmt		
d.	110mm dia. 6kg class pipes.	225.00	Rmt		
51	Floor Traps				
	Supplying and laying custom built (prefabricated) CPVC floor sumps / floor traps fabricated out of 110mm dia 6kg Class CPVC pipes with inlet and outlets from 40mm upto 75mm, including providing water seal, fixing to a perfect level, laying cement concrete in 1:3:6 mix using 20mm size coarse graded aggregate, providing Approved brand 150x150mm size C.P grating with frame alround, at 4mm below finished floor level making holes in masonry or concrete cutting surfaces, conveying all dismantled portions and clearing the site, making leak proof joints and testing etc., complete and as directed.	25.00	Nos		

S.No.	Description	Qty	Unit	Rate	Amount
52	CPVC Pipe lines for Water Supply				
	Supplying and fixing approved make CPVC pipe with ISI brand fittings such as tees, elbows, unions, nipples, flanges, etc. including cutting, threading, cutting chassing in walls and concealing the pipes in wall wherever laid inside the toilet complete with making holes in walls, floors, slabs, etc. earthwork excavation, back filling to consolidation, redoing the distrubed portions,MS frame work & clamp for pipe laying, MS/brick in CM supports testing and commissioing complete as directed.				
a.	20mm dia CPVC pipe	450.00	Rmt		
b	25mm dia CPVC pipe	300.00	Rmt		
c	40mm dia CPVC pipe	100.00	Rmt		
d	50mm dia CPVC pipe	125.00	Rmt		
53	Pillar Cock				
	Supplying and fixing 15mm CP pillar cock for wash basin. Hindware - F280001GCP or equivalent make	14.00	Nos		
54	Angle Valve				
	Supplying and fixing 15mm CP inlet valve with CP connection Hindware - F280004 or equivalent make	36.00	Nos		
55	Wall Mixture				
	Providing & fixing 15 mm C.P. Brass Wall Mixer System of approved quality with 115mm long bend pipe on upper side of the mixer for overhead shower connection, aerator, wall flange, installation kit, fittings and fixtures as per the manufacturer's specification etc. complete as per the directions of Engineer-in-charge. Hindware - 280018GCP or equivalent make	14.00	Nos		
56	Shower				
	Providing and fixing Wall mounted 150mm dia. S S Ultra thin Over Head Rain shower with 225mm arm- Square and other accessories, installed as per manufacturer's instructions with necessary fittings etc. complete as per the directions of the Engineer-in-Charge. Hindware - F160142CP or equivalent make	14.00	Nos		
57	Stop cock				
	Providing & fixing C.P. Brass Stop Cock consisting of stop cock, including C.P. exposed part kit having sleeve, handle and wall flange with all fittings and fixtures,complete as per the manufacturer's specifications and as per the directions of the Engineer-in-Charge.	16.00	Nos		
58	Ball valve				
	Providing & fixing ISI marked Brass Ball valve of approved quality with all necessary fittings and hardware etc. complete as per the manufacturer's specifications and per the directions of the Engineer-in-Charge.				
a	20mm dia.	28.00	Nos		
b	25mm dia.	12.00	Nos		
c	40mm dia.	4.00	Nos		
59	Soap Dish				
	Providing and fixing Soap Dish of approved quality with all necessary accessories and hardware like screws, rawl plug including drilling holes in walls and making it good etc. Hindware - F580004 or equivalent make.	28.00	Nos		

S.No.	Description	Qty	Unit	Rate	Amount
60	Two Way Bib Cock				
	Supplying and fixing 15mm CP two way bib cock. Hindware - F520005GCP or equivalent make	14.00	Nos		
61	Health faucet				
	Supplying and fixing ABS Double dock Health faucet with 1.2m S S Flexible hose and wall hook (chrome) Hindware - F160195 or equivalent make	14.00	Nos		
62	Pantry Counter Slab with Granite top				
	Providing and fixing 18mm thick jet black granite for Pantry Table with necessary RCC slab (including steel), Sink area cutting including half round nosing on edges and bull nose edge on front side.	3.00	Sqm		
63	SS sink with drain board & tap				
	Nirali make or equivalent S. S. sink 1040 x 510mm with drain board, necessary CP brass waste fittings, 32mm CP brass , and bottle trap with extension piece etc. complete. Rate shall also include one C P SWAN NECK TAP with swinging casted spout including drain board. Hindware - F280012GCP or equivalent make	1.00	No		
64	Gully trap				
	Constuction of masonry gully trap on PCC 1:3:6 and constructing 115mm thick masonry wall around the gully, cement plastering to internal surfaces, top and outside with CM 1:4 and finished smooth and on top fitted with 300 mm x 300mm CI frame and cover painted with anticorrosive bitumastic paint in two coats complete as directed.	20.00	Nos		
65	Inspection chamber(Manhole)				
	Construction of masonry inspection chamber of following sizes in 230mm thick brick walls in CM 1:4 side walls on a PCC 1:3:6 base of 150mm thick, forming benching and channelling for branches and straight connection, plastering with CM 1:4 for internal surfaces and top finished smooth outside upto 300mm below ground level and the balance portion joints raked and well packed with CM 1:4 including earthwork excavation in all kinds of soil, refilling the sides to consolidation and on top fitted with 600x600mm x 50 kg weight (medium duty) CI frame and cover sets in CC 1:2:4, and painted with anticorrosive paint in two coats complete as direcited. 600x600mm up to 900mm depth	10.00	Nos		
66	Providing and breaking the existing inspection chambers and connecting the proposed lines with necessary jointing materials dismantling and redoing the same conditions etc. complete	1.00	No		
67	Sintex Tank - 5000 ltr Anti - Fungal				
	Supply & fixing Sintex Pure Tank with Active Silver Technology, Food Grade material, UV protection, Multi Layer, Multi Ribbed, FDA approved and ROHS Compliance 5000 liters capacity tank with necessary fixing arrangements.	3.00	Nos		
68	Repairing Existing Steel Storage				

S.No.	Description	Qty	Unit	Rate	Amount
	Removing the damaged locks from the existing steel storage cupboard and replacing with new locks including necessary welding and scrapping the existing enamel paint, applying one coat of metal primer with metal paste and finished with two or more coats of MRF metal coat. Rate should include necessary alteration/repair works in the existing cupboard and hand over the cupboard in usable condition , etc., complete.	72.00	Nos		
69	Concrete Repair				
	Remove cracked concrete till beyond the corroded rod by chipping and dressing including existing plastering and clear off the rubbish from the premises. Repeated jet washing of exposed concrete surface with clean water and testing of surfaces for alkalinity using phenolphthaline spray at the rate of 2 tests / 1 sqm of chipped area at random till PH value is shown to be in the range of 10.5 to 12.5. Coating of cleaned concrete surface with polymer modified cement slurry or other polymeric material for adhesion and including rust removal coating, rust protection coating of steel (Fosroc, Dr.Fixit) to prevent from corrosion.	112.00	Sqm		
70	Providing additional reinforcement as required in the form of smaller dia steel bars and fixing by nails / binding wire to old surface / old bars.	600.00	Kg		
71	_Do_ by welded mesh (8 SWG) of 50 X 50mm grid.	20.00	Sqm		
72	Repairing & rebuilding the structural members to its original size by hand packed Polymer modified mortar including cleaning the exposed damaged concrete surface & applying bonding coat of cement and acrylic polymer of approved make in approved ratio and there after applying polymer modified mortar made of acrylic polymer of approved make in C.M. 1:3 in the specified proportion as per manufacturer's recommendations in the layers of 10 mm thick each upto total built-up thickness of 30 mm, including applying bonding coat in between two layers etc complete as directed. Rate shall includes for embedding stone aggregates in between the layers of PMM in case the thickness of damaged portion is more. The measurement shall be in nearest regular shape of treatment done in slab.Average built-up thickness up to 30mm to 40mm	200.00	Sqm		
73	Providing and fixing injection port using 12mm dia aluminium pipe, injecting polymer modified cement grout using specially desifned grouting pump of the pressure of 2 to 3 kg/cm ² including necessary consumables, hire charges for pump etc, complete.	450.00	Nos		

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74	Providing & treating by micro concrete at an average thickness upto 50 mm using Rendroc RG manufactured by M/s. Fosroc Chemicals or equivalent, mixed with water in the ratio to get desired consistency and 12mm down grade chips wherever required including leak tight shuttering with provision of window to pour super fluid micro concrete, filling the gaps with masking tape, hacking the surface immediately on removal of shuttering to receive further finishing to the surface curing for minimum 3 days. Microconcreting should be done only after erection of shuttering and rate includes shuttering and scaffolding at all height and levels. (The micro concrete used for jacketing should have a minimum characteristic compressive strength of 45 MPa at 28 days. The area of microconcrete having minimum 25mm thickness shall be measured for payment)	35.00	Sqm		
75	FRP Manhole Cover with Frame				
	Providing and Fixing FRP Manhole Cover with Frame tested as per BS EN 124:1994 and AASHTO H-20 and H-25.	4.00	Nos		
76	Rungs				
	Providing & fixing PVC coated M.S. foot rests of 20mm ϕ at 300 mm spacing, benching and making channels with 1:2:4 cement concrete neatly finished.	10.00	Nos		
	Total (Excluding GST)				