

UNITED INDIA INSURANCE CO. LTD.,
HEAD OFFICE
24, WHITES ROAD,
ROYAPETTAH, CHENNAI

TENDER

FOR THE MAINTENANCE WORKS INVOLVING CIVIL, PLUMBING AND
MISCELLANEOUS WORKS TO THE EXISTING FLATS FOR
UNITED INDIA INSURANCE CO. LTD., AT FLAT NO. C6,
SAF GAMES VILLAGE, KOYAMBEDU, CHENNAI.

Consultants:



No. 258, Tambaram - Velachery Road,
Selaiyur, Chennai 600 073.
Mobile - 98412 81968

**PROPOSED MAINTENANCE WORKS OF APARTMENTS FOR UNITED INDIA INSURANCE CO.
LTD., AT FLAT NO. C-6, SAF GAMES VILLAGE, KOYAMBEDU, CHENNAI.**

SUMMARY OF WORKS

S.No	Description	Amount
A	Civil Maintenance Works	RS.
B	Water Supply & Drainage Works	
	Sub Total	
	Total Amount	RS.

In words Rupees

CONTRACTOR

**PROPOSED MAINTENANCE WORKS OF APARTMENTS FOR UNITED INDIA
INSURANCE CO. LTD., AT FLAT NO. C-6, SAF GAMES VILLAGE, KOYAMBEDU,
CHENNAI.**

LIST OF APPROVED CONSTRUCTION MATERIALS

SL NO	DESCRIPTION	MAKE
	CONSTRUCTION MATERIALS	
	Sand and aggregates	Govt. approved quarries
	Grey cement	L & T/ Coromandel/, Ramco
	White cement	L & T/ Coromandel/, Ramco
	Steel	I steel/ ARS/ TATA Tiscon/ Kanishk/ Agni
	Ready mix concrete	L & T,
	Aerated concrete blocks	Aerocon, Siporex
	Strong room door/ ventilator	Godrej/ Chubb
	JOINERIES	
	Rolling shutters	Vinayaga/ Oms/ Daina
	Collapsible gates	Vinayaga/ Oms/ Daina
	Flush shutters	Kutty's/ Archid/
	UPVC windows	Fenesta, Sintex
	Glass	Saint Gobain/ Modi
	aluminium	Hindalco, Jindal
	Hardwares	Kich or equivalent
	TILES	
	Cement based interlocking blocks	Best quality available
	Cement based coloured paver tiles	Eurocon/ Ultra/ dazzle/ Beton
	Cement based coloured step tiles	Eurocon/ Ultra/ dazzle/ Beton
	Vitrified tiles	Asian/ Johnson/
	Ceramic glazed tiles	Johnson/
	Ceramic anti skid flooring tiles	Johnson/
	Adhesives, sealants & grouts	Laticrete
	PAINTS	
	Anti-corrosive treatment paints	Shalimar/
	Red-oxide/ Zinc chromate primer	
	Cement paints	
	Wall putty	Asian/ Shalimar/ JK
	Oilbound distemper	Asian/ Berger/ ICI
	Interior & exterior arylc emulsion	Asian/ Berger/ ICI
	Enamel paint	Asian/ Berger/ ICI
	Polishes	
	Glass	Saint gobain/ AIS
	PVC tanks	Sintex,
	alco panel	Euro Bond of equivalent
	Textur paint	Spectrum

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LIST OF APPROVED WATERSUPPLY & DRAINAGE MATERIALS

SL NO	DESCRIPTION	MAKE
	<u>WATER SUPPLY ITEMS</u>	
	BOREWELL PUMPS	AQUA TEX/ TEXMO/ KIRLOSKAR
	SUBMERSIBLE/ CENTRIFUGAL PUMPS	"
	WATER METER	AQUAMET/ TOSHNIWAL
	INTERNAL WATER SUPPLY PIPES	
	CPVC - SDR - 11, 13.5 GRADE	ASTRAL/ AQUARIS/ ASHIRWAD
	CPVC SCH - 40, 80	"
	BRASS & GUN METAL VALVES	
	BALL VALVES	LEADER/ NORMAX/ TBS/ CIM
	NON RETURN VALVE/ CHECK VALVE	NORMAX
	AIR RELEASE VALVE	OR/ VB
	BUTTERFLY VALVE	NORMAX/ AUDCO/ LEADER
	Y' STRAINER	RB
	HOT WATER PIPE INSULATION	VIDOFLEX
	CHROMIUM PLATED ITEMS	
	CHROMIUM PLATED FITTINGS	JAQUAR/ PARRYWARE/ ESS
	CHROMIUM PLATED ACCESSORIES	JAQUAR/ PARRYWARE/ ESS
	<u>SANITARY & DRAINAGE ITEMS</u>	
	STAINLESS STEEL SINK	PARRYWARE/ NIRALI
	PORCELAIN ITEMS	PARRYWARE/ HINDWARE
	FLUSHING CISTERN	SLIM LINE
	CLOSET SEAT COVER	PARRYWARE
	ELECTRIC WATER HEATER	RACOLD/ VENUS
	GRATINGS & COVERS	
	CI GRATINGS	NECO
	PVC GRATINGS	PRAYOG - SYMET
	CP GRATINGS/ ANTI COCKROACH GRATINGS	CHILLY/ NEER
	SFRC COVER	K K PRECAST CONCRETE FABRICATORS
	CI/DI COVER	NECO
	DRAINAGE PIPES	
	PVC PIPES - 6kg/sq cm & SPECIALS	FINOLEX / PRINCE
	PVC SWR 'B' CLASS/ 'A' CLASS PIPES & FITTINGS	FINOLEX / PRINCE
	PIPE SUPPORTS & "U" CLAMPS	HI-TECH PIPE SUPPORTS
	FABRICATED FLOOR TRAPS, PIPE INSERTS (UPVC)	FREEDOM ENTERPRISES

PROPOSED MAINTENANCE WORKS OF APARTMENTS FOR UNITED INDIA INSURANCE CO. LTD., AT FLAT NO. C-6, SAF GAMES VILLAGE, KOYAMBEDU, CHENNAI.

BILL OF QUANTITIES FOR CIVIL WORKS

S.No	Description	Quantity	Rate	Unit	Amount
1	<u>DISMANTLING WORKS</u>				
1.1	Demolishing the existing flooring/ dadoing including skirting, base mortar etc., cleaning the existing floor/ wall surface fit for providing new flooring, carting away the debris out of the site and disposing it off to a place unobjectionable by the corporation authorities including all leads and lifts upto fourth floor and as directed by the engineer-in-charge.				
1.1.1	Mosaic tiles laid in CM 1:4 in all floor areas except toilets etc.,	85.00 Sq. M		Sq. M	
1.1.2	Ceramic tiles laid in CM 1:4 in all toilets etc.,	8.00 Sq. M		Sq. M	
1.1.3	Glazed wall tiles laid in C.M 1:4 in toilets/ kitchen etc.,	40.00 Sq. M		Sq. M	
1.1.4	Demolishing the loose materials in concrete beams, spalling from floor/roof slab, sunshades etc., and preparing surface for treatment.	10.00 Sq. M		Sq. M	
1.1.5	Demolishing the loose materials in walls and preparing surface for treatment.	10.00 Sq.M		Sq.M	
1.1.6	Supply & filling of sunken floors of toilets with integrated cement based waterproofing cement brick bat coba concrete after waterproof treatment in toilets, all as per the chemical manufacturers specification	3.00 Cu.M		Cu.M	
1.1.7	Repairs to plaster of 12 to 20mm thickness in patches not exceeding 2.5 Sq.M including cutting the patches to proper shape, raking, preparing and plastering to desired finish, fit for painting in ceiling and walls	20.00 Sq.M		Sq.M	

S.No	Description	Quantity	Rate	Unit	Amount
2	TOILET SUNKEN AREAS WATERPROOFING Supplying and application of water proofing treatment with SUPER CRYL - Acrylic based elastomeric cementious waterproofing lining after preparation of surface by removing loose mortars, dust etc., and applying super cryl polymer mixed with cement and water, 1:1:1 proportion over clean & green surface and dried for 4 hours, applying SUPER SHIELD acrylic based elastomeric waterproofing lining with cement 1:1 proportion and fixing up the double reinforcement GFM mesh over the SUPER CRYL slurry coat when it is green and application of top coat with SUPER SHIELD Acrylic based elastomeric waterproofing lining with cement in 1: 1 proportion and allowing to dry for 24 hours a top plastered with CM 1:3 - 20mm thick.	10.00 Sq. M		Sq. M	
3	<u>JOINERY</u>				
3.1	Charges for maintenance & re-fixing in position of doors after finishing the new vitrified flooring including replacement of worn out fittings such as hinges, tower bolts, handles etc., excluding ortise locks, complete.	5.00 Each		Each	
4	<u>FLOORING</u>				
4.1	LIVING/ DINING/BED/ BED AREA: Providing & laying polished vitrified floor tiles with basic tile price Rs. 85/- per sft, in different sizes (thickness as per the manufacturer's specification) with water absorption less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, laid over 20mm thick cement mortar 1: 4, including grouting the joints with white cement and matching pigments and cleaning etc., complete.	55.00 Sq. M		Sq. M	
4.2	LIVING/ DINING/BED/ BED AREA: Providing & fixing skirting 100mm high using polished vitrified floor tiles with basic tile price Rs. 85/- per sft, in different sizes (thickness as per the manufacturer's specification) with water absorption less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, laid over 12mm thick cement mortar 1: 4, including grouting the joints with white cement and matching pigments and cleaning etc., complete.	45.00 R. M		R. M	

S.No	Description	Quantity	Rate	Unit	Amount
4.3	KITCHEN/ SERVICE/ SITOUT AREA: Providing & laying MATT FINISH vitrified floor tiles with basic tile price Rs. 85/- per sft, in different sizes (thickness as per the manufacturer's specification) with water absorption less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, laid over 20mm thick cement mortar 1: 4, including grouting the joints with white cement and matching pigments and cleaning etc., complete.	10.00 Sq. M		Sq. M	
4.4	KITCHEN/ SERVICE/ SITOUT AREA: Providing & fixing skirting 100mm high using MATT FINISH vitrified floor tiles with basic tile price Rs. 85/- per sft, in different sizes (thickness as per the manufacturer's specification) with water absorption less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, laid over 12mm thick cement mortar 1: 4, including grouting the joints with white cement and matching pigments and cleaning etc., complete.	15.00 R. M		R. M	
4.5	TOILET FLOORS: Providing & fixing 1st quality ceramic anti skid floor tiles with basic tile price Rs. 55/- per sft, in different sizes confirming to IS: 15622 (thickness as per the manufacturer's specification) of approved make in all colours and shades except deep dark colours as approved, over a base 12 mm thick cement mortar 1: 3 and jointing with grey cement slurry @ 3.3 kg/sq m including pointing with white cement mixed with matching pigments etc., complete.	7.50 Sq. M		Sq. M	
4.6	TOILET WALLS & DADO IN KITCHEN Providing & fixing 1st quality VITRIFIED TILES for walls in different sizes to a minimum of 600 x 600 mm and with basic tile price Rs. 85/- per sft, confirming to IS: 15622 (thickness as per the manufacturer's specification) of approved make in all colours and shades except deep dark colours as approved in wall dado's skirting, etc., over a base 12 mm thick cement mortar 1: 3 and jointing with grey cement slurry @ 3.3 kg/sq m including pointing with white cement mixed with matching pigments etc., complete.	40.00 Sq. M		Sq. M	

S.No	Description	Quantity	Rate	Unit	Amount
5	<u>PAINING</u>				
5.1	Providing and applying two or more coats of acrylic washable distemper of approved manufacture and to desired shade to the ceiling and walls over a coat of primer as per the manufacturers specification for all internal surfaces of walls including scaffolding etc., complete.	90.00 Sq. M		Sq. M	
5.2	Providing and applying two or more coats of acrylic emulsion paint interior grade of approved manufacture and to desired shade over a coat of primer and two coats of putty as per the manufacturers specification for all internal plasterd surfaces of walls including scaffolding etc., complete.	145.00 Sq. M		Sq. M	
5.3	Providing and applying two or more coats of french polish for main door and other door shutters and pelmets over one coat of sealer as per manufacturer's specification for all wood works including scaffolding etc complete.	20.00 Sq.M		Sq.M	
5.5	Providing and applying 2 coats of synthetic enamel paint over one coat of primer as per manufacturer's specification for all wood and steel works including scaffolding etc complete.	45.00 Sq. M		Sq. M	
5.6	Providing and applying two or more coats of enamel paint for the inner surfaces of all cupboards and as per manufacturer's specification for all wood works.	25.00 Sq.M		Sq.M	

S.No	Description	Quantity	Rate	Unit	Amount
6	OTHER WORKS				
6.1	Supplying and fixing in position best available jet black granite slab 2'0" wide for kitchen table top over a base RCC of 3" tk supported by 3" tk brick walls duely plastered and finished. The granite shall have full nosing at the free edge. The rate shall include providing opening for stainless steel sink at one end including all incidental materials etc., complete.	6.00	R.M	R.M	
7	Checking of electrical points and replacemet of broken switches/ sockets as available in the particular flat and not involving providing any extra circuits but limited to basic model Anchor brand 10 Switches, 6 sockets and 4 fan regulators.	1.00	Job	Job	
8	Providing 0.8mm laminate finish for the cupboard shutters in overhead cabinets and low level cabinets in kitchen as per the site requirement and along with replacement of hardware fittings as required	12.00	Sq.M	Sq.M	
9	Complete cleaning of the flat with chemicals and water for handing over in spik and span condition fit for occupation	1.00	Job	Job	

TOTAL Rs.

In words Rupees

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BILL OF QUANTITIES FOR WATER SUPPLY & DRAINAGE WORKS

S.No	Description	Quantity	Rate	Unit	Amount
A	<u>WATER SUPPLY</u>				
1	SFTC of hot forged and sand blasted Brass ball valve with full port, Silicon free, double viton 'O' -ring stem seal, Dacrotized carbon steel handle and nickel plated stem, teflon ball seat on both sides, forged brass hard chrome plated steel ball tested to a pressure not less than 15kg/sqcm with threaded / flanged joints complete with nuts, bolts, gaskets, washers, mta and union etc complete.				
1.1	25mm dia	2.00	Each	Each	
1.2	32mm dia	2.00	Each	Each	
1.3	40mm dia	-	Each	Each	QRO
2	<u>PIPELINES INTERNAL</u>				
	SFTC of CPVC - SDR-13.5 grade pipe of with specials and necessary brass specials such as tee, elbow, union, nipple etc., for Domestic water supply & flushing with in toilets, works including cutting and making the joints by pasting, chasing in the wall with proper supports (nails etc...), pipes laying in a straight line. and testing to withstand the hydraulic pressure etc. complete. Making of water supply pipes connected with the fittings by CPVC solvent cement as per the internal plumbing drawing routing, pipes chasing in the wall, running in sunken floors with in the toilets, kitchen, pantry and service areas. Works including cutting in the wall, floors and necessary areas and refilling the same with the water proofing components etc complete.				
2.1	3/4" dia (ID)/20mm	15.00	RM	RM	
2.2	1" dia (ID)/25mm	10.00	RM	RM	
2.3	1 1/4" dia (ID)/32mm	5.00	RM	RM	

S.No	Description	Quantity	Rate	Unit	Amount
3	Supplying,fixing and testing of PVC SCH-40 of approved make with same specials such as tee,elbow,union,nipple etc.,for Drinking water supply pipes stacked in shaft in straight line, works including cutting and making the joints by pasting, and testing to withstand the hydraulic pressure etc.complete.Laying of water supply pipes vertically and connected with the fittings by PVC solvent cement confirming to ASTM D-2564, as per the plumbing drawing stacked in shafts with proper Hitech Pipe supports. (Cost included for 'U' Bolts with necessary nuts and washer but excluded for Hi-tech Brackets.Identification mark and direction of flow mark to be marked by stickers or paint on the pipes.Identification mark and direction of flow mark to be marked by stickers or paint on the pipes.				
3.1	3/4"dia (ID)	5.00	RM	RM	QRO
3.2	1"dia (ID)	10.00	RM	RM	QRO
3.3	1 1/4"dia (ID)	5.00	RM	RM	QRO
4.1	SFTC of CPVC pipe - SDR 11 GRADE and CPVC Fittings for Hot water supply within the toilets - Concealing in walls, with necessary fittings such as tee,elbow,union,nipple. including brass moulded fittings, brass male/female adapters etc., .confirming to ASTM D-2846,including cutting and jointing using CPVC solvent cement imported (IPS USA) ,chasing the wall and fixing the pipe with proper supports (nails etc...), redoing the same and testing to withstand the hydraulic pressure etc.complete 3/4"dia (ID)	15.00	RM	RM	
4.2	Supplying and wrapping of Vidoflex insulation with 9/10mm thickness for hot water line in inside toilet etc., complete 20mm dia	5.00	RM	RM	

S.No	Description	Quantity	Rate	Unit	Amount
5	<u>CHROMIUM PLATED ITEMS</u>				
5.1	SFTC 2 in 1 wall mixer with long bend connecting pipe, shower arm, shower rose and CP flange etc., complete, including cutting and making good the walls /floor wherever required, including cost and conveyance of all materials to the site, all labour charges, all taxes etc., complete. Wall mixer-Jaquar-Continental-model No:273 Shower arm-Jaquar_model No: 477 Over head shower-Jaquar-model No: 491	2.00	Each	Each	
5.2	SFTC OF 15mm CP brass Sink cock with regular swinging spout(wall mounted) etc., complete. Sink cock-Jaquar-Continental-model no:347cp	2.00	Each	Each	
5.3	SFTC of 20mm CP concealed stop cock with flange for toilet areas including necessary hardwares etc.,complete. CSC valve-Jaquar-Continental-model no:089cp	3.00	Each	Each	
5.4	SFTC 15mm CP angle valve with flange for water purifier in pantry area including necessary hardwares etc., complete. Angle valve-Jaquar-Continental-model No:053cp	3.00	Each	Each	
5.5	SFTC of 15mm CP short body bib tap with flange, teflon tape etc., for IWC areas etc. complete. Jaquar-continental-model no:037	5.00	Each	Each	
5.6	SFTC of 15mm CP long body bib tap including flange, teflon tape etc., complete. Jaquar-Continental-model No: 037	2.00	Each	Each	
B	<u>DRAINAGE</u>				
1	<u>STAINLESS STEEL ITEMS</u>				
1.1	SFTC of Stainless steel sink with waste coupling - Single bowl and single drain board, manufactured from premium SS304 stainless steel including necessary hardware like supporting brackets or masonry with RCC slab etc., The works shall include cutting and finishing good the walls /floor wherever required etc., complete. Stainless steel sink: Parryware-model no:8528 with edges folded single drain board - 36"X18" Bowl size -16"X14"X8"-	1.00	Each	Each	

S.No	Description	Quantity	Rate	Unit	Amount	
2	PORCELAIN ITEMS					
2.1	<p>SFTC of White Colour Standard Floor mounted European Water Closet with 'S' trap including providing the following accessories; Slim line Dual flush Pvc flushing cistern, 32mm flush pipe connecting the cistern and EWC, solid seat cover, 15mm CP brass angle valve, connection tube, CP Wall flange, CP extension nipple, Pan connector and necessary hardware like brass screws, washers etc., complete. The side gap between closet mouth and pan connector is to be filled with silicon sealant. Works shall include necessary cutting and finishing good the walls and floors wherever required etc., complete.</p> <p>EWC-Parryware-Elite-model No: C0297 CISTERN-Parryware- Slim line pvc model No: C8109 SEAT COVER-Parryware-seat cover - C8094 ANGLE VALVE-Jaguar-continental-model No:053cp</p>	1.00	Each	5750.00	Each	5750.00
2.2	<p>Supplying, Storing, Leading, Installing, Testing and Commissioning of White Colour Orissa pan Rim type Indian Water closet with ceramic 'P' trap. Works including for providing the following accessories: slim line pvc dual flushing cistern, 32mm dia flush pipe connecting the cistern upto the IWC, 15mm CP brass angle valve with connection tube, CP wall flange etc. Works including necessary civil works etc. complete. Works including cutting and making good the walls / floor wherever required etc., complete.</p> <p>Indian water closet-500X400mm-Parryware model no-0117 Slim line economy dual flush pvc cistern model no: C8109 Angle valve-Jaquar-Continental-model no:053cp</p>	1.00	Each		Each	

S.No	Description	Quantity	Rate	Unit	Amount	
2.3	SFTC of white colour medium rectangular wash basin including the following accessories; 32mm dia CP brass waste coupling, 32mm dia CP brass bottle trap with extension pipe, 15mm dia CP brass Angle valve, CP brass pillar cock, connection tube, CP extention nipple, CP wall flange, Fisher bolt, and necessary all hardware materials like brass screws, washer etc. complete. Works including necessary cutting and making finishing the wall and floors wherever required etc. complete. Wash basin-Parryware-model No: 0430 Rewa(450 x 300mm) Pillar cock--Jaquar-Continental-long neck with aerator-model No:021cp CP waste coupling - Jaquar - Allied-Model No:705/709cp CP bottle trap - Jaquar - Allied-Model No:769cp Angle valve-Jaquar-Continental-model No:053	2.00	Each	4200.00	Each	8400.00
3	<u>TOILET ACCESSORIES</u>					
3.1	Supplying and fixing CP double coat hook with necessary hardwares etc., complete. Jaquar-Continental-model No:1161cp	2.00	Each		Each	
3.2	Supplying and fixing CP towel ring with necessary hardwares etc., complete. Jaquar-Continental-model No:1121cp	2.00	Each		Each	
3.3	Supplying and fixing CP towel rod with necessary hardwares etc., complete. Jaquar-Continental-model No:1111cp	3.00	Each		Each	

S.No	Description	Quantity	Rate	Unit	Amount
3.4	Supplying and fixing to the wall, Recessed type SP & SG dish including necessary hardwares etc., Complete. Parryware-Recess SP & SG dish-model No: C9935	2.00	Each	Each	
3.5	Supplying and fixing of approved make 5mm thick mirror for wash basins (600X450mm) with Teak wood/ Aluminium frame and water proofed plywood backing, including polishing and necessary hardwares etc., complete.	3.00	Each	Each	
4	<u>PVCTRAPS & CP GRATINGS</u>				
4.1	SFTC of fabricated PVC floor trap with 40/50/63/75 dia inlet and 75dia outlet with the extension boss tee connections, fixed on to a bed of cement concrete in sunken floors etc., complete.	5.00	Each	Each	
4.2	Supplying and fixing of CP Anti-cockroach floor trap gratings of approved shape, fixing on floor trap etc., complete.	5.00	Each	Each	
5	<u>PIPE LINES (INTERNAL WORK)</u>				
5.1	SFTC of 6kg/sq cm PVC pipes confirming to IS 4985. and fittings (available fittings in the market and fabricated fittings) such as tee, elbow, 'y' , coupler, etc., and joining the specials with solvent cement for soil and waste pipe line works in toilets, pipes running in sunken floors for EWC, IWC, wash basins, urinals floor traps etc., including making holes as required, chasing in walls, floors as necessary and finishing the same with proper water proofing compound etc., complete.				
5.1.1	40mm dia	10.00	RM	RM	
5.1.2	50mm dia	5.00	RM	RM	
5.1.3	63mm dia	5.00	RM	RM	
5.1.4	100mm dia	5.00	RM	RM	

TOTAL Rs.

In words Rupees

CONTRACTOR

Signature with seal