

IMPULSE BRANDING SOLUTIONS

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Date: 24/03/2024

Project : Adani CIP Lounge T3 Lok

W/O No : SKPL/23-24/001793

Name of the Work : CVL INT CIP Lounge T3 Lok

RA-1 MEASUREMENT SHEET OF PLUMBING

S. No.	Item Code	Specification	Unit	Description	Qty	WOQ	Rate	Amount
	a)	All Sanitary fixtures including bottle traps (from approved make list), shall be issued free of cost by the "Employer". The contractor rates to include for supply all fixing/supporting accessories like nuts, bolts, screws, hangers, rubber buffers, CI or MS brackets, anchor fasteners, sealants, washers, adhesives, Flanges, plumber's tape, white cement, masking tape (if required for protection), which are required for the successful installation of the fixtures/fitting in a neat workman like manner.						
	b)	Rates are inclusive of fixing/ work at all the heights, depths and locations within the project premises.						
	c)	Rates are inclusive of fixing/work for underslung plumbing system or embedded piping. Mostly, all the toilets in the residential units have been designed for under slung piping.						
	d)	Provision of extension piece for final connection of CP fitting shall be supplied and installed by the contractor accordingly (as required)						
	e)	All pressure pipe will be tested on 1.5 times of their working pressure						
1		Providing, Supply, installation, testing and commissioning of white vitreous china Wall mounted type "European" water closet pan with seat cover, closed coupled dual flush cistern (with all internal moving parts) with PVC heavy duty connectors, bolts, nuts, supporting arrangements, bakelite seat & cover with CP hinges & rubber buffers, P or S trap, connection to main pipe on shaft complete with all accessories including cutting & making good masonry holes/chasing in the walls & floors wherever required & health faucet with regulator with flexible pipe 1.5 m long, wall hooked complete as required, with all required accessories that includes Flush Plate, bilb cock made of CP brass complete as required	Nos	Male Restroom=2 Femal Restroom=2	4	4	29000	116000 ✓
2		Providing, Supply, installation, testing and commissioning of white vitreous china "Floor mounted" type Composite Water closet (European type W.C. pan) with seat and lid, including with white Vitreous Chinaware matching Cistern complete with all accessories, also including with matching W.C. Pan with ISI marked white/Black solid plastic seat and Lid. Details of COST of one Pan composite with Cistern, Flush Pipe, EWC & Cistern complete with Fittings & Seat Cover and one no. of Faucet for WB, with all required accessories that includes bilb cock made of CP brass complete as required	Nos	Disable Restroom=1	1	1	26000	26000 ✓
3		Providing and fixing white vitreous china rectangular Half pedestal Wash Basin & its accessories etc, also with all fittings and fixtures complete including cutting and making good the walls and floors wherever required. (for Handicapped person's Toilets) (colour- Star White) painted white, 32mm C.P. waste coupling, 32mm dia C.P. bottle trap and connection pipe upto wall with wall flange and rubber adaptor for waste connection, complete including cutting and making good the walls, wherever required.	Nos	Disable Restroom=1	1	1	22000	22000 ✓
4		Providing, Supply, installation, testing and commissioning of 15 mm dia C.P. brass basin mixer top mounted with C.P. wall flange of approved quality	Nos	SPA=1	1	1	2500	2500 ✓
5		Providing, Supply, installation, testing and commissioning of CP Grab Bar swing type (in horizontal & vertical grabbing) & Grab rails 60 cm, complete including cutting and making good the walls, wherever required.	Nos	BAR Basin=1	1	1	3200	3200 ✓
6		Providing, Supply, installation, testing and commissioning of CP Grab rails 60 cm, complete including cutting and making good the walls, wherever required.	Nos	Kitchen=1	1	1	3200	3200 ✓
7		Providing, Supply, installation, testing and commissioning of C.P. toilet paper holder with roller, with C.P. brass screws, complete including cutting and making good the walls wherever required.	Nos	Male Restroom=2 Femal Restroom=2 Disable Restroom=1	5	5	2500	12500 ✓
9		Providing, Supply, installation, testing and commissioning of C.P. twin Bolt hook, fixed to wooden cleats with C.P. brass screws including cutting and making good the walls wherever required.	Nos	SPA=1 Male Restroom=1 Femal Restroom=1 Disable Restroom=1	4	4	650	2600 ✓
11		Providing, Supply, installation, testing and commissioning of Automatic liquid soap dispenser with simple push lever fitted with liquid soap (one time), C.P. brass screws including cutting and making good the walls wherever required.	Nos	Male Restroom=2 Femal Restroom=2 Disable Restroom=1	5	5	6500	32500 ✓
13		Providing, Supply, installation, testing and commissioning of SS 204 Grade Bin	Nos	Male Restroom=1 Femal Restroom=1 Disable Restroom=1 Kitchen=2	5	5	3500	17500 ✓

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14	Providing, Supply, installation, testing and commissioning of C.P. Paper Towel Dispenser, with C.P. brass screws, complete including cutting and making good the walls wherever required.	Nos	Male Restroom=1 Femal Restroom=1	2	2	9500	19000 ✓
15	Providing and fixing white vitreous china rectangular wash basin under / over counter mounting, specially fabricated brackets to support the wash basin as per standard practice, painted white, 32mm C.P. waste coupling, 32mm dia C.P. bottle trap and connection pipe upto wall with wall flange and rubber adaptor for waste connection, complete including cutting and making good the walls, wherever required.	Nos	SPA Counter=1 BAR Counter=1 Kitchen=2	4	4	6500	26000 ✗
18	Providing, fixing, testing and commissioning of white vitreous china large flat back / half stall urinal supported by CI / MS bracket (duly painted with 2 coats of paints over a coat of primer), including CP brass waste with dome type grating, CP cast brass bottle trap with extension piece, wall flanges complete with all accessories & urinal partition with concealed CI bracket, cutting and making good, including battery operated sensor based automatic flushing system for urinals, including sensor and required electrical and water connections etc, complete in all respect to make it fully functional including cutting and making good the walls etc.	Nos	Male Restroom=3	3	2	26000	78000 ✗
19	Providing, Supply, installation, testing and commissioning of C.P. brass angle valve with C.P. wall flange, Nut and Washer etc. complete as required for 15 mm & 20 mm dia	Nos	SPA Counter=2 BAR Counter=4 Kitchen=5 Janitor Room=1 Male Restroom=8 Female Restroom=5 Disable Restroom=3	28	28	3200	89600 ✗
20	Providing, Supply, installation, testing and commissioning of 15 mm dia C.P. brass bib cock with C.P. wall flange of approved quality	Nos	SPA Counter=1 BAR Counter=1 Kitchen=2 Janitor=1	5	5	3000	15000 ✗
21	Providing, Supply, installation, testing and commissioning of Stainless steel sink (Single bowl with drainboard sink) 304 Grade SS, Matt Finish medium size 1000 X 500MM supported by CI / MS Brackets duly painted, CP cast brass bottle trap with extension piece, rubber adaptor, CP copper connecting pipes, wall flange, union, CP brass chain, rubber plug, nuts, washers, waste connection complete & making good the walls, floor wherever required.	Nos	Kitchen=1	1	1	31000	31000 ✗
22	Providing, Supply, installation, testing and commissioning of 15 mm dia C.P. brass sink mixer (wall mounted) with 150 MM swivel spout, with C.P. wall flange of approved quality	Nos	Kitchen=1	1	1	3000	3000 ✗
23	Providing, Supply, installation, testing and commissioning of High Speed hand dryer suitable to be operated with 230 volts, single phase, with fully hygienic operations with all accessories including cutting and making good the walls, wherever required.	Nos	Male Restroom=1 Femal Restroom=1 Disable Restroom=1	3	3	15600	46800 ✗
24	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Nos	Male Restroom=3 Femal Restroom=3 Disable Restroom=2	8	6	3000	24000 ✗
B WATER SUPPLY							
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge							
Internal work - Exposed on wall							
a)	15mm dia	Mtrs	Male, Female, Disable Restroom	57.3	60	170	9741 ✓
b)	20mm dia	Mtrs	Male, Female, Disable Restroom, Kitchen, SPA	29.8	30	190	5662 ✓
c)	25mm dia	Mtrs	Male, Female, Disable Restroom, Kitchen, BAR	13.23	15	220	2910.6 ✓
d)	32mm dia	Mtrs	Male, Female, Disable Restroom, Kitchen, BAR	14.76	15	275	4059 ✓
e)	40mm dia	Mtrs	Male, Female Restroom	8.8	10	300	2640 ✓
f)	50mm dia	Mtrs	Male, Female Restroom	14.12	15	320	4518.4 ✓
26	Providing and fixing CPVC (Chlorinated Poly Vinyl Chloride) water supply pipes with pipe as per CTS SDR 11 (operating pressure - 7 Bar @ 82 Deg C and 28 Bar @ 23 Deg C) for pipes from 1/2 Inch to 2 Inch. Schedule 40 Pipe to be used from 2-1/2 inch to 6 inch. Pipes shall be joined using solvent welded CPVC fittings i.e. Tees, Elbows, Couplers, Unions, Reducers, brushings etc. including transition fittings (connection between CPVC & metal pipe/GI) i.e. Brass Adaptors (both Male & Female threaded) conforming to ASTM D-2846. ASTM F441 with only CPVC solvent cement conforming to ASTM F-493.						

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	Cost shall be inclusive of (a) Making maximum of 7.5 x 7.5 cm chasing in wall and floors for the pipe, making good the same by using 1:1 cement mortar over the wire mesh and providing protection to embedded pipes and fittings (in wall chase) by wrapping two layers of 400 micron polythene sheet including proper overlaps on joints complete as required or (b) Fixing/supporting the pipes (& fittings) at wall/ceiling level supported by galvanized clamps, hangers etc, as per specification. Exposed pipes to be painted of legends with direction arrow. GI pipe sleeves suitable higher size shall be provided wherever the pipes are crossing the fire rated walls / floors slab and sealing the sleeves with glass wool in between and fire sealant compound at either end all as per Project Manager's / Consultant requirement. All termination points for installation of faucets shall have brass termination fittings. Installation shall be to as per Technical Manual of manufacturer of pipes & fittings.						
a)	15 mm dia	Mtrs	Male,Female,Disable Restroom	96.76	100	145	140302 ✓
b)	20mm dia	Mtrs	Male,Female,Disable Restroom	13.87	15	160	2219.2 ✓
27	Providing & fixing full way lever operated forged brass ball valve of brass body with forged brass hard chrome plated steel ball tested to a pressure not less than 15 Kg / sqcm with threaded / flanged joints complete with nuts, bolts, gaskets, washers etc.						
	15mm	Nos	Restroom	2	2	650	1300 ✓
	20mm	Nos	Restroom	10	10	700	7000 ✓
	25mm	Nos	Restroom	1	1	700	700 ✓
	32mm	Nos	Restroom	1	1	750	750 ✓
28	Providing & fixing of butterfly valve (PN 16) with flanges, nut bolts, gaskets and necessary pad locking arrangement complete required.						
	50 mm dia	Nos	Fire pipe	1	1	1500	1500 ✓
29	Supplying, laying/ fixing, testing and commissioning of following thickness resin bonded fiber glass pipe section insulation having density 80 kg/cum or mineral wool (non combustible) having density of 144 Kg/ cu m duly covered with a layer of 120 gm/sqm polythene sheet (vapour barrier) on existing pipe and finally applying 0.63mm aluminium sheet cladding complete with type 3, grade 1 roofing feltstrip (as per IS:1322 as amended up to date) at joints etc. as per specifications and as required.						
a)	25 mm thick mineral wool insulation (15 mm dia)	Mtrs	Restroom, BAR Area	52.8	55	350	18480 ✓
b)	25 mm thick mineral wool insulation (20 mm dia)	Mtrs	Restroom, BAR Area	13.5	15	400	5400 ✓
c)	25 mm thick mineral wool insulation (25 mm dia)	Mtrs	Restroom, BAR Area	12.8	15	430	5504 ✓
d)	25 mm thick mineral wool insulation (32mm dia)	Mtrs	Restroom, BAR Area	14.01	15	450	6304.5 ✓
C	DRAINAGE						
30	Providing, Supply, installation, testing and commissioning of UPVC Soil, Waste & Vent system conforming to IS : 13592 - Type B and UPVC fittings (moulded as well as fabricated) like bends, tees, Y-tees, crosses, boss connections, access pieces, saddle pieces, cleanouts, adaptors for connections to other materials, plugs, reducers, cowls, offset and other specials. Jointing shall be done with pushfit EPDM ring jointing technique in general. Solvent cement joints may be provided for fittings and specials which are not manufactured with pushfit rubber joints. Pipes may be laid / fixed in sunken floors, under slung from ceiling. The pipes laid in sunken floor shall be encased with 75 mm thick cement concrete (1:2:4) all around. The installation shall be complete in all respects including cutting chases / holes in walls, slabs and making good the same as per specifications						
	Providing GI pipe sleeves of suitable higher size wherever pipes crossing a fire rated wall / floor slab and sealing of space around pipe and pipe sleeve with glass wool in between and fire proof sealant at either end to the satisfaction of the Project Manager / Consultants and making good the same after pipes have been duly laid and testing complete.						
a)	110mm dia	Mtrs	Male,Female,Disable Restroom, Kitchen, Janet or Room, SPA	52.87	53	500	26435 ✓
b)	75mm dia	Mtrs	Male,Female,Disable Restroom	28.02	30	450	12609 ✓
c)	50mm dia	Mtrs	Restroom, Kitchen	49.25 ✓	50	380	18715 ✓
d)	40mm dia	Mtrs	Restroom, Kitchen, BAR	8.88	10	350	3108 ✓
31	Providing and fixing of UPVC Floor Traps formed out of bore 'Ø' trap with 50 mm water seal, setting in 1:2:4 mix cement concrete block or clamping to the wall or suspending with the ceiling including cutting and making good the walls and floors wherever required. With Heavy class SS grating with Cockroach proof SS strainer of approved design including setting in floor with cement mortar to match with floor finish as per architect requirement suitable for water F.D. & F.T.						

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	a)	110 mm inlet and 110 mm outlet	Nos	BAR Area=2 Kitchen=3 Male Restroom=2 Female Restroom=2 Disable Restroom=1 Janitor=1 SPA=1	10	10	1500	15000
	32	Providing and fixing of UPVC Nani Traps with 50 mm water seal, setting in 1:2:4 mix cement concrete block or clamping to the wall or suspending with the ceiling including cutting and making good the walls and floors wherever required, With Heavy class SS grating with Cockroach proof SS strainer of approved design including setting in floor with cement mortar to match with floor finish as per architect requirement suitable for waster trap						
	a)	110 mm inlet and 110 mm outlet	Nos	Janitor=1 Kitchen=3 SPA=1 Male Restroom=1 Female Restroom=1 Disable Restroom=1	8	8	1500	12000 ✓
	33	Providing and fixing Floor drain made out of 110x75 mm OD uPVC. elbow connected to uPVC pipe complete as per direction of Project Manager	Nos	Disable Restroom=4	4	4	600	2400 ✓
	34	Providing and fixing clean out/floor clean out plug consist of CI bend & GI socket heavy class with cap & key for opening male threaded cap etc. including lead caulked to CI pipes complete in all respects as per drawing/ sample approved by Engineer -In -Charge FCO (floor clean out plug shall be flushed with floor finish). 100 mm dia. and Matching with Item no 31 or as per Architure approvals.	Nos	Male Restroom=1 Female Restroom=1 Disable Restroom=1	3	3	860	2580 ✓
							Total Amount	755965.9

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