

ESTIMATE FOR RENOVATION OF PICU UNIT						
Sno	SOR /I- no	Description	Qty	Rate	Unit	Amount
1	15.14	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
	15.14.1	15.14.1 Of area 3 sq. metres and below	13.00	85.00	Each	1105.00
2	15.6	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
	15.6.3	In cement mortar	10.464	487.00	Cum	5096.00
3	15.11	Dismantling tile/ Kota stone/ Marble / Granite work in floors/walls and roofs laid in cement mortar including stacking material within 50 metres lead.				
	15.11.1	For thickness of tiles 10 mm to 25 m	125.68	17.00	Sqm	2137.00
4	15.40	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
	15.40.1	15 mm to 40 mm nominal bore	12.00	40.00	Mtr	480.00
5	15.45	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	2.00	223.00	Each	446.00
6	6.6	Brick work with well brunt open bhatta, bricks, crushing strength not less than 25kg / cm ² and water absorption not more than 20% in superstructure above plinth level and up to floor two level i/c curing etc complete.				
	6.6.2	Cement Mortar 1:6(1 cement: 6 sand)	2.256	4350.00	Cum	9814.00
7	13.3	20 mm cement plaster of mix :				
	13.3.2	1:6 (1 cement : 6 sand)	18.12	156.00	Sqm	2827.00
8	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
	18.7.1	15 mm nominal outer dia .Pipes.	8.65	129.00	Mtr	1116.00
	18.7.2	20 mm nominal outer dia .Pipes.	8.65	153.00	Mtr	1323.00
9	4.1	Providing and laying in position cement concrete of specified - grade excluding the cost of centering and shuttering - All work up to plinth level:				
	4.1.1	With 20mm nominal size graded stone aggregate.				
	4.1.1.3	M 15—Grade concrete	0.881	4471.00	Cum	3939.00
10	11.47	Providing and laying Ceramic glazed floor tiles 300x300 mm or more - (having thickness 6 to 7mm) of 1st quality conforming to IS: 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown laid on 20mm thick bed of Cement Mortar 1:4 (1 Cement: 4 sand) including pointing the joints with white cement and matching pigments etc., complete.	11.520	620.00	Sqm	7142.00

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11	11.50	Providing and laying rectified Glazed Ceramic wall tiles 300x450 - mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in colours White, Ivory, Grey, Fume Red Brown, laid on 12 mm thick cement mortar 1:3 (1 Cement : 3 sand) including grouting the joints with white cement and matching pigments etc., complete.	35.700	698.00	Sqm	24919.00
12	11.22	Providing and fixing 18mm thick gang saw cut minor polish (premoulded and prepolished) machine cut for kitchen platform vanity counters, window sills , facias and similar locations required size of approved shade, colour and texture laid over 20n thick base cement mortar 1:4 (1 cement : 4 sand) with joints treat with white cement, mixed with matching pigment, epoxy touch ui including rubbing, curing moulding and polishing to edge to gi high gloss finish wherever required etc. complete at all leve samples approved by Engineer-in-charge.				
	11.22.2	Granite of any colour and shade	10.680	3322.00	Sqm	35479.00
13	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion.				
	21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	52.520	383.00	kg	20115.00
14	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item)				
	21.3.3	With glass panes of 8 mm thickness	7.790	1292.00	Sqm	10065.00
			4.875	1292.00	Sqm	6299.00
15	21.4	Add extra for providing and fixing froasted glass instead of float glass				
	21.4.3	With glass panes of 8 mm thickness	7.790	262.00	Sqm	2041.00
			4.875	262.00	Sqm	1277.00
16	13.41	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, Like birla white /JK white or equivalent, over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete.	271.00	74.00	Sqm	20054.00
17	13.38	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	271.00	77.00	Sqm	20867.00

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18	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top bottom pivot spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc.to be paid separately).	10.11	4958.00	Sqm	50125.00
19	25.7	Providing and fixing white vitreous china type Anti germ Fluoro-Polymer Coated Wash Basin size 160x580x450mm with C.I. Brackets, 15 mm C. P. wall mounted pressmatic pillar cock auto closing system (decol technology), 15mm quarter turn angular stop cock, 32 mm C.P. brass made waste coupling length 130mm and 32 mm C.P. Brass Made Bottle Trap size 200x300mm fittings and fixtures complete including Painting of fittings and cutting and making good the wall and floors wherever required :				
20	25.7.1	White Vetrious China Anti germ Fluoro-Polymer Coated Wash Basin Size 160x580x450 mm with basin mounted pressmatic pillar cock auto closing system (decol technology).	1.00	13520.00	No.	13520.00
21	25.19	Providing and fixing in position best indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn)Bib cock.	1.00	1680.00	No.	1680.00
22	25.21	Providing and fixing in position best indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn)Consealed stop cock.	1.00	1620.00	No.	1620.00
23	25.22	Providing and fixing in position best indian (bonut size 24mm, ceramic disc size 19mm and min. nickel plating 0.10 micron and chrome plating 0.3 micron, quarter turn)Wall Mixer with 115mm bend	1.00	5280.00	No.	5280.00
24	9.81	Providing and fixing bright finished brass handles with necessary screws etc. complete.				
	9.81.2	100 mm	2.00	181.00	No.	362.00

Sno	SOR /I- no	Description	Qty	Rate	Unit	Amount
		FALSE CEILING				
26	12.50	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38mm made from 0.33 mm thick (minimum) sheet, spaced 1200mm centre to centre, and cross "T" of size 24x28mm made out of 0.33mm (Minimum) sheet, 1200mm long spaced between main 'T' at 600mm centre to centre to form a grid of 1200x600mm and secondary cross 'T' of length 600mm and size 24 x28mm made of 0.33mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600mm panel to from grid of size 600x600mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size 24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450mm centre to centre with 25mm long dry wall screws @ 230mm interval and laying 15mm thick densified edges calicum silicate ceiling tiles of approved texture (Spintone /fine tissured and finhole/ Cosmos/hexa) in the grid including, cutting/ making opening for services like diffusers, grills,light fittings, fixtures, smoke detectors etc., wherever required, Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6mm fixed to ceiling with 12.5 mm dia and 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200mm centre to centre along main 'T' , bottom exposed with 24mm of all T-sections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by engineer-in- charge.				
	12.50.4					
		Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non - combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/m 0 KC.				
			105.000	1047.00	Sqm	109935.00
		ANTI BACTERIAL PAINT				
27	28.3	Providing and establishing anti-bacterial & anti fungicidal	205.50	1200.00	Sqm	246600.00

Sno	SOR /I- no	Description	Qty	Rate	Unit	Amount
		sterile coating of liquid plastic paint on GI Puff/SS panel of modular OT. The paint should be seamless, easy to clean, should have vapour permeability which allows substrate moisture to escape and protects against growth of bacteria, mould and yeasts, moisture resistance, freeze / thaw resistance. Anti-bacterial paint's anti-microbial quality should remain active throughout the life of the product. Vapors permeable structure should allow damp substrates to dry out without causing blistering. It should tolerate cleaning with hospital chemical agents. Filling of all joints and cavities should be with metallic epoxy filler and sand casted flush to provide a joint-less finish. This should include all fittings, accessories, hardware, support structures, etc. required for installation. Anti-bacterial and anti-fungus sterile coating shall be applied on the finished walls & ceiling with at least 2-3 coats to achieve a thickness of minimum 200 micron. Before application of sterile wall coating an appropriate primer shall be applied. The primer shall be supplied along with the paint and should be of the same make as that of paint. and shall be applied prior to coating of anti-bacterial & anti-fungus sterile paint on walls & ceiling 2-3 coats shall be applied to achieve a thickness of 200 microns. Sterile coating and primer shall be applied on the surface by air- less spray gun. Sterile coating shall withstand against application of commonly used cleaners in the operation rooms and shall withstand against application used cleaners in the operation room and shall with stand against regular steam cleaning . Product should have warrantee of at least 10 years. The work should be executed				
28	45.9	ANTI STATIC VINAYL FLOORING				
		Anti Static Vinyl Flooring (Roll Type) Imported :-Supply, installation, testing , commissioning of 2mm thick roll form antistatic conductiveseamless vinyl flooring with perfectly curved flash-coving resistant to mechanical stress anddynamic loads and having conductive backing to ensure optimal and consistent conductiveproperties $5 \times 10^4 \leq R_t \leq 10^6 \text{ Ohm (EN 1081)}$. It should comply with EN 649. All jointshould be washable. Residual Indentation app. 0.03mm, It should be castor wheel testqualified, Dimensional stability should be $\leq 0.40\%$. Static Electrical charge should be $< 2\text{Kv}$. Impact sound reduction should be $+4\text{Db}$, It should be good resistant to scratch & shallconfirm slip resistance class R9 as per DIN 51130 and Fire rating Bft-s1 as per EN 13501-1. Itshould not allow growth of fungi & bacteria. It should have wear resistance group P (K5rating) and should be PUR treated to get highest stain resistance to hospital chemicals as perDIN 423/DIN 51958. It confirms to the requirement standard for healthcare NFPA99.AEe application of sterile wall coating an appropriate primer shall be applied. The primer shall be supplied along with the paint and should be of the same make as that of paint. and shall be applied prior to coating of anti-bacterial & anti-fungus sterile paint on walls & ceiling 2-3				
		The work should be executed as per the direction of engineer in charge	105.00	2600.00	Sqm	273000.00
		Cu pipe				
29	45.16.2	Copper pipe solid drawn, seamless, deoxidised non-arsenic, half hard, tempered and degressed material conforming to new european standard EN 13348:2008. Fittings are made of Cu suitable for steam of working pressure 17 Bar.				
	45.16.2.2	(b) 15 mm (Thickness 0.9mm)	100	380	R	38000.00
	45.16.2.3	(c) 22 mm (Thickness 0.9mm)	75	450	R	33750.00
		Terminal/Gas outlets				
30	46.16.6	Supply Installation Testing and Commissioning of Terminal/Gas outlets with following specification (CE marked with 4 digit notified no./ UL listed):-				
		•Oxygen				
		•Vacuum				

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		•N2O •Air-4 bar				
		•DISS air 7 Bar				
		<p>The Outlets combines ease of installation and low cost maintenance. The outlet shall be Designed for economy, reliability, and durability, whilst offering, the features such as Compact and aesthetically designed, Quality robust materials of construction, Proven reliability to be kept as standard. The outlet shall be Non-interchangeable self-dealing quick connect gas outlet for Oxygen / N2O/ Vacuum / C.A. The outlet point shall be Available for head wall units / wall / pendant units and shall accept direct (front) probe . The gas outlet shall have Double locking (secondary) facility. Front fascia of gas outlets shall be non-interchangeable and gas colour coded. Secondary isolating valve allows the maintenance of the gas outlet without the need for a pipeline system shutdown and Having provision to braze pipeline from any direction / any angle as per requirements. The outlet shall have the second fix socket and valves assembly is removable in-situ, from the front of the terminal unit without removal of the fae application of sterile wall coating an appropriate primer shall be applied. The prim</p>				

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	46.16.6.1	oxygen	7	1350	Each	9450.00
	46.16.6.2	N2O	8	1350	Each	10800.00
						970663.00
		Deduct 10% as per PIU Circular on SOR Items			(-)	97066.30
		Sub Total				873596.70
		Isolation Valve				
31	Approved Rate	Supply installation testing and commissioning of Isolation Valve. The Valve shall be 3 piece ball-type designs with a bronze body and chrome plated brass ball for sizes ½” to 3” and seats shall be of Teflon (TFE) . A blow-out proof stem shall be used and the valve shall have a maximum rating of 600 psi.It shall be operated by a lever-type handle requiring only a quarter turn from a fully open position to a fully closed position.				
		15mm	15	750.00	no	11250.00
		22mm	5	1109.00	no	5545.00
		Oxygen Flowmeter				
32	Approved Rate	Supply installation testing and commissioning of Oxygen Flowmeter with Humidifire bottle As per HTM02 -01/ 2022 / NFPA99 & CE indian Certified The flow meter constructed with chromium plated brass body, range for oxygen is 0-15 LPM . Humidifier bottle is unbreakable, reusable to disinfectants and complements. It is autoclavable at 121 degree centigrade and made of polycarbonate material.	4	604.00	no	2416.00
		Ward Vacuum unit				
33	Approved Rate	Supply installation testing and commissioning of Ward Vacuum unite with Regulator, 600ml jar and As pe HTM02 -01/ 2022 / NFPA99 & CE indian Certified is designed for minimum servicing and high efficiency . Regulator body which houses an ON/OFF knob , regulator knob, vacume guage guaranteed in mbar.Consisting of one no. Suction Regulator connected with 600ml polycarbonate transperent Jar .The jar and the lid are autoclavable and unbreakable and is fitted with an overflow safety trap	4	1364.00	no	5456.00
		Sub Total				24667.00
		Grand Total				898264.00
		Add 12 % GST				107792.00
						1006056.00