



Project Name : RAPID DEPLOYMENT (RaD) COVID-19 HOSPITAL
BILL OF MATERIALS (FOR 1 CLUSTER)

1 CLUSTER = 6 NEGATIVE AIR PRESSURE ICU UNITS

ITEMS DESCRIPTION	QTY	UNIT
PRELIMINARIES		
TEMPORARY PERIMETER FENCE		
Bluesack 8'	150	lm
G.I. Pipe 1-1/2" dia. (S-20)	125	pcs
Swivel Clamp 1-1/2" diameter	250	pcs
G.I. wire #16	5	rolls
TEMPORARY FACILITIES		
G.I. Corrugated Gauge #24 Roofing 10'	12	sheets
Tekscrew	50	pcs
Ordinary Nail #2	3	kgs
Ordinary Nail #1	3	kgs
Lumber 2"x4"x12'	50	pcs
Ordinary Plywood 1/2"	20	pcs
Portalet	3	units
STRUCTURAL		
CARCASS		
20' Standard Height Shipping Container	6	pcs
STEEL WORKS FOR PEDESTAL		
W8X24 I-BEAM	2	pcs
W6X12 I-BEAM	1	pcs
12mm thk MS PLATE	9	sheets
16mm x 200mm dia. Ordinary bolt	112	pcs
STRUCTURAL FRAMING		
2"x6"x1/4" Channel Bar (6m length)	5	pcs
2"x4"x1/4"Channel Bar (6m length)	8	pcs
2"x3"x1/4"Channel Bar (6m length)	11	pcs
2"x3"x2.0mm Rectangular Tube (6m length)	16	pcs
2"x2"x1.5mm Square Tube (6m length)	21	pcs
2"x6"x1.5mm Rectangular Tube (6m length)	7	pcs
2" Flat Bar for support (6m length)	2	pcs
C-purlin 2"x3"x1.0mm thk (6m length)	25	pcs
ROOFING		
0.5mm thk x 4m Hi-Rib long span roofing	21	pcs
Tekscrew #2	350	pcs
WHEELCHAIR RAMP		



Project Name : RAPID DEPLOYMENT (RaD) COVID-19 HOSPITAL
BILL OF MATERIALS (FOR 1 CLUSTER)

1 CLUSTER = 6 NEGATIVE AIR PRESSURE ICU UNITS

Checkered Plate	16	sheets
2"x4"x1/4" Channel Bar (6m length)	5	pcs
2"x2"x2.0 Square Tube (6m length)	12	pcs
G.I. pipe S-20 1-1/4" diameter	22	pcs
ARCHITECTURAL		
CEILING		
Fiber cement board 4.5mm	46	pcs
Rockwool Blanket Insulation, 60kg 50mmx0.6mx5m	29	pcs
NFR 2 Aluminum foil insulation	1	roll
Wall Angle 3m	66	pcs
Carrying Channel 5m	38	pcs
Double metal furring 0.4mm x 16'	38	pcs
WALLS		
Ceramic Wall Tiles (T&B and Anteroom), 300x300mm	1332	pcs
Ceramic Adhesive, 20kg per bag	24	bags
Ceramic Tile Grout, 5 kg per bag	8	bags
Fiber cement board 6mm	148	pcs
Rockwool Blanket Insulation, 60kg 50mmx0.6mx5m	65	pcs
Metal Stud 8'	75	pcs
Metal Track 8'	75	pcs
FLOORING		
Ceramic Tiles Flooring (T&B and Anteroom), 300x300mm	432	pcs
Ceramic Adhesive, 20kg per bag	13	bags
Ceramic Tile Grout, 5 kg per bag	4	bags
Vinyl Sheet	3	roll/s
Vinyl Sheet Adhesive	14	pail/s
3/4" Marine Plywood	16	pcs
PAINTING		
Reinforcing Tape	600	lm
Primer (16L/Pail)	3	pails
Putty	200	kg
Odorless, Antibacterial Semi-gloss Paint	30	gals
Polituff	6	gals
Thinner	10	gals
Epoxy Primer	24	gals
Epoxy Reducer	12	gals
Automotive Paint	36	gals
SEALING		
Polyethelene Sheet Opaque 0.5mmx4'	145	lm
Waterproofing	3	pails



Project Name : RAPID DEPLOYMENT (RaD) COVID-19 HOSPITAL
BILL OF MATERIALS (FOR 1 CLUSTER)

1 CLUSTER = 6 NEGATIVE AIR PRESSURE ICU UNITS

DOORS and WINDOWS		
PVC Swing door w/ lever handle knob (1.2m x 2.1m)	12	sets
PVC Swing door w/ lever handle knob with glass (1.8m x 2.1m)	2	sets
PVC Swing door w/ lever handle knob (0.7m x 2.1m)	1	set
PVC Swing door w/ lever handle knob and louvers (0.7m x 2.1m)	6	sets
UPVC glass window 1.2m x 1.2m	7	sets
CABINETRIES, COUNTERTOPS AND FIXTURES		
600mmx600mm Ceramic Tiles	5	pcs
1/2" Marine Plywood	4	pcs
2"x4" Wooden Nailers	11	lm
Robe hooks	24	pcs
MISCELLANEOUS		
4" cutting discs	6	boxes
4" grinding discs	6	boxes
14" cut-off discs	10	pcs
Rust converter	2	gals
Clear sealant	10	tubes
Riveter	6	pcs
Black screw	12	boxes
Blind rivets 1/8"	8	boxes
Drill bit 1/8"	3	boxes
E6013 Welding rod, 3/32	30	kgs
Epoxy Primer	6	gals
Paint brush #4	4	pcs
Paint brush #2	4	pcs
Baby roller	4	pcs
7" roller brush	4	pcs
Acetylene + Oxygen Tank	2	sets
Industrial Vacuum cleaner	2	sets
1" Masking tape	20	pcs
Cleaning materials	1	lot
PLUMBING		
SEWER AND VENT LINES		
PVC Pipes, Series 1000, 3m length		
100mm diameter	36	pcs
75mm diameter	18	pcs
50mm diameter	64	pcs
DRAINS		



Project Name : RAPID DEPLOYMENT (RaD) COVID-19 HOSPITAL
BILL OF MATERIALS (FOR 1 CLUSTER)

1 CLUSTER = 6 NEGATIVE AIR PRESSURE ICU UNITS

Floor Drain (Brass), 50 mm diameter	18	pcs
Shower Drain (Brass), 50 mm diameter	6	pcs
CLEANOUTS		
Floor Cleanout (Brass), 100 mm dia.	9	pcs
Floor Cleanout (Brass), 75 mm dia.	6	pcs
Vent Stack, 50 mm dia.	6	pcs
Pipe Connectors, Fittings and Accessories		
100mm (wye, elbow, 1/8 bend, coupling)	1	box
75mm (wye, elbow, 1/8 bend, coupling)	1	box
50mm (wye, elbow, 1/8 bend, coupling)	1	box
25mm (wye, elbow, 1/8 bend, coupling)	1	box
Hanger / Brackets / Supports / Concrete Saddle		
100mm diameter	72	pcs
75mm diameter	36	pcs
50mm diameter	128	pcs
WATER SUPPLY SYSTEM		
PPR Pipes, PN-20, 4 mtr. Length		
Waterline		
50mm diameter	14	pcs
25mm diameter	27	pcs
Pipe Connectors, Fittings and Accessories		
Hanger / Brackets / Supports / Concrete Saddle		
50mm diameter	42	pcs
25mm diameter	81	pcs
VALVES AND WATER CONTROL		
Water Meter Assembly		
Gate Valve, 50 mm dia, (Threaded Type)	1	pc
Wye Strainer, 50 mm dia. (Threaded Type)	1	pc
Water Meter, 50 mm dia. (Threaded Type)	1	pc
Gate Valves		
25 mm diameter (Threaded Type)	6	pcs
Air Capped Chamber Set, 25 mm dia.	30	sets
PLUMBING FIXTURES AND OTHER ACCESSORIES		



Project Name : RAPID DEPLOYMENT (RaD) COVID-19 HOSPITAL
BILL OF MATERIALS (FOR 1 CLUSTER)

1 CLUSTER = 6 NEGATIVE AIR PRESSURE ICU UNITS

Water Closet w/ complete accessories (Flush Tank Type)	6 sets
Lavatory w/ Lever Handle Faucet, P-Trap & complete accessories (Wall Mounted)	12 sets
Stainless Steel Sink w/ Gooseneck Lever Handle Faucet, P-Trap & complete accessories (350mm width, 450mm length)	1 set
Shower Set, w/ Faucet, Valve & complete accessories	6 sets
Bidet, Handspray Type w/ complete accessories	6 sets
Polyethelene Septic Tank	1 set
IBC Tank	1 set
230V Submersible Water Pump 150L/min	1 set
230V Magnetic Coupling Water Pump, 80L/min	1 set
ELECTRICAL	
2-gang Universal Electrical Outlets	15 sets
3-gang Universal Electrical Outlets	18 sets
2-gang weatherproof electrical outlets	6 sets
Single Pole Light Switch	18 pcs
3-way switch	4 pcs
ACU Outlet	12 sets
22mm ² THHN wire	3 boxes
8mm ² THHN wire	1 box
5.5mm ² THHN wire	8 boxes
3.5mm ² THHN wire	10 boxes
2-40W surface mounted troffer lights 12"x48"	31 sets
Outdoor wall lights	4 pcs
PVC Pipes 1/2" diameter	20 pcs
PVC Flexible hose 1/2" diameter	2 rolls
PVC pipe adaptor 1/2" diameter	168 pcs
PVC Junction boxes	45 pcs
PVC Utility Boxes	78 pcs
2-pole miniature circuit breaker 100A	2 pcs
2-pole miniature circuit breaker 30A	9 pcs
2-pole miniature circuit breaker 20A	12 pcs
2-pole miniature circuit breaker 15A	7 pcs
19-ways Electra Distribution Box Metal Base w/ Busbar	1 set
16-ways Electra Distribution Box Metal Base w/ Busbar	1 set
Note:	
For all lighting fixtures, use LED	
MECHANICAL	
PVC DUCTWORKS	
PVC PIPES S100	
300 Ø	9 lm



Project Name : RAPID DEPLOYMENT (RaD) COVID-19 HOSPITAL
BILL OF MATERIALS (FOR 1 CLUSTER)

1 CLUSTER = 6 NEGATIVE AIR PRESSURE ICU UNITS

250 Ø	6 lm
200 Ø	24 lm
150 Ø	6 lm
100 Ø	3 lm
80 Ø	9 lm
50 Ø	21 lm
45° ELBOW	
250 Ø	2 pcs
200 Ø	12 pcs
80 Ø	4 pcs
50 Ø	24 pcs
90° ELBOW	
300 Ø	4 pcs
100 Ø	2 pcs
WYE	
200 Ø	6 pcs
WYE REDUCER	
300X250 Ø	2 pcs
250X200 Ø	2 pcs
200X50 Ø	6 pcs
150X80 Ø	2 pcs
BUSHING REDUCER	
300X250 Ø	2 pcs
250X200 Ø	2 pcs
150X100 Ø	1 pcs
150X80 Ø	1 pcs
100X80 Ø	1 pcs
AC UNITS, GRILLES, FANS AND OTHER EQUIPMENTS	
Equipment	
SPACE PRESSURIZATIO MONITOR WITH PROBE WALL MOUNTED (HONEYWELL)	1 set
CEILING CASSETTE EXHAUST FAN 450CFM, 1.5 IN. W.G. ESP. 230V, 1PH, 60HZ	6 unit/s
CENTRIFUGAL FAN EXHAUST SISW, 1650 CFM, 2 IN. WG	2 unit/s
CENTRIFUGAL FAN EXHAUST FAN SISW, 448 CFM, 1.5 IN. WG 230V, 1PH, 60HZ	1 unit/s
WALL AXIAL FAN 224 CFM , 1.5 IN. W.G. 1.5 ESP. 230V, 1PH, 60HZ (HEPA FILTER FANS MAY ALSO USED INSTEAD , IF AVAILABLE)	2 unit/s
WINDOW TYPE AIRCON 1.5 HP, 60HZ, 239V,339 CFM	12 unit/s
Exhaust Grilles	
50MM Ø OUTLET , 50 CFM AIR FLOW, FREE AREA 422.5CM ²	12 unit/s
150X150mm, OUTLET 80 Ø, 9 CFM AIR FLOW	4 unit/s



Project Name : RAPID DEPLOYMENT (RaD) COVID-19 HOSPITAL
BILL OF MATERIALS (FOR 1 CLUSTER)

1 CLUSTER = 6 NEGATIVE AIR PRESSURE ICU UNITS

MISCELLANEAOUS		
Structural Supports		
ANGLE BAR 25X25X5MM X 6M	6 lngth	
ANGLE BAR 40X40X5MMX 6M	4 LENGTH	
U-BOLT 6mm Ø		
300 Ø	8 pcs	
250 Ø	4 pcs	
200 Ø	48 pcs	
150 Ø	6 pcs	
100 Ø	2 pcs	
80 Ø	4 pcs	
50 Ø	6 pcs	
PVC Solvent 100cc		3 can
EPOXY(500ML) A&B		1 can
WELDING ROD 6013		5 kgs
RED OXIDE PRIMER PAINT		½ gal
HEPA Filters		
250X250MM 0.3 MICRONS MERV 8	2 set/s	
120X120MM 0.3 MICRONS MERV 8	1 set/s	
FOR FRESH AIR FAN REFER ACTUAL EQUIPMENT SIZE	2 set/s	