

**GENERAL ABSTRACT FOR  
Infrastructure strengthening (renovation of IPD, OPD unit)**

**USE SOR:- CIVIL-1-8-14, ELECTRICAL-1-8-14 (With up to date Amendment)**

<b>Sl. No.</b>	<b>Discription of works</b>	<b>Amount</b>
<b>A</b>	<b>CIVIL WORKS</b>	<b>665544.00</b>
<b>B</b>	<b>ELECTRICAL WORKS</b>	<b>87547.00</b>
	<b>GRAND TOTAL</b>	<b>753091.00</b>
	<b>Add 12 % GST</b>	<b>90370.92</b>
	<b>GRAND TOTAL</b>	<b>843461.92</b>
	<b>SAY AMOUNT</b>	<b>8.00 Lakh</b>

**Sub Engineer  
NHM, Bhopal**

**Assistant Engineer  
Joint Director , Health  
Services, Bhopal**

**Executive Engineer  
NHM, Health  
Services, Bhopal**

**Detail Estimate for Infrastructure strengthening (renovation of IPD, OPD unit)**

Sl. No.	sor item no.	PARTICULARS	No.	L	B	H	Qty	Unit	Rate	Amount
1	14.27	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete								
		Room no. 9								
		Ceilling	1	4.20		3.70	15.54			
		Wall	2	4.20		2.10	17.64			
		Wall	2	3.70		2.10	15.54			
		Bathroom/toilet								
		Ceilling	1	2.90		1.30	3.77			
		Wall	2	2.90		2.10	12.18			
		Wall	2	1.30		2.10	5.46			
		Partition wall	1	1.30		0.90	1.17			
		Corridor								
		Ceilling	1	2.90		1.10	3.19			
		Wall	2	2.90		2.10	12.18			
		Wall	2	1.10		2.10	4.62			
		Kitchen								
		Ceilling	1	2.90		1.90	5.51			
		Wall	2	2.90		2.10	12.18			
		Wall	2	1.90		2.10	7.98			
		Almira- 2 No.								
		Bottom	2X8	0.30		0.90	4.32			
			2X5	0.90		0.10	0.90			
		Side	2X8	0.35		0.30	1.68			
		Back	2X4	0.90		0.35	2.52			
		<b>Total A</b>					<b>126.38</b>			
		<b>Total A ( 7 No Room)</b>					<b>884.66</b>			
		Room no. 14								
		Ceilling	1	3.80		4.30	16.34			
		Wall	2	3.80		1.90	14.44			
		Wall	2	4.30		1.90	16.34			
		Toilet								
		Ceilling	1	1.10		1.50	1.65			
		Wall	2	1.10		1.20	2.64			
		Wall	2	1.50		1.20	3.60			
		Bathroom								
		Ceilling	1	0.90		1.40	1.26			
		Wall	2	0.90		1.20	2.16			
		Wall	2	1.40		1.20	3.36			
		Corridor								
		Ceilling	1	2.30		0.80	1.84			
		Wall	2	2.30		1.90	8.74			
		Wall	2	0.80		1.20	1.92			
		Kitchen								
		Ceilling	1	1.90		2.20	4.18			
		Wall	2	2.20		1.90	8.36			
		Wall	2	1.90		1.90	7.22			
		Almira- 1								
		Side	8	0.50		0.30	1.20			
		Back	4	0.70		0.50	1.40			
		Front	2	2.00		0.20	0.80			
		Almira side	4	1.30		0.50	2.60			
			8	0.50		0.30	1.20			
		Bottom	2	1.30		0.30	0.78			
		<b>Total B</b>					<b>102.03</b>			
		<b>Total B ( 2 No Room)</b>					<b>204.06</b>			
		<b>Total A+B</b>					<b>1088.72</b>	sqm	4.59	4997.00
2	13.47	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade								
		13.47. New work (two or more coats) over and including water thinnable priming coat with cement primer.								
		Qty Same as Item no 1					1088.72			

Sl. No.	Item No.	PARTICULARS	No.	L	B	H	Qty	Unit	Rate	Amount
		Private ward corridor-								
		Ceiling	1	34.40		2.50	86.00			
		Wall	1	34.40		2.10	72.24			
		Wall	1	34.40		2.20	75.68			
		Coloum side	11	1.40		1.60	24.64			
		d/w side	14	1.20		0.10	1.68			
			28	1.00		0.10	2.80			
		W	7	1.20		1.00	-8.40			
		D	7	1.20		1.00	-8.40			
		Ceiling	1	16.30		2.00	32.60			
		Wall	1	14.50		2.10	30.45			
		Wall	1	7.30		2.10	15.33			
		Wall	1	7.00		2.10	14.70			
		Coloum side	3	1.40		1.60	6.72			
		Ceiling	1	14.90		1.80	26.82			
		Wall	1	13.00		2.10	27.30			
		Wall	1	14.90		2.10	31.29			
		Coloum side	4	1.40		1.60	8.96			
		Short Wall	2	1.80		2.10	7.56			
		Ceiling	1	14.30		2.00	28.60			
		Wall	1	14.30		1.60	22.88			
		Ceiling beam	4	0.40		2.00	3.20			
		Deduction								
		D	2	1.20		0.80	-1.92			
		W	2	1.20		0.80	-1.92			
		wall	1	8.20		1.60	13.12			
		<b>Total Qnty</b>					<b>1600.65</b>	sqm	54	86435.00
3	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.								
		Qnty Same as above item					<b>1600.65</b>	sqm	66.6	106603.00
4	13.57	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :								
		13.57. Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand or manufacture								
		Room No. 09								
		Door	2X4	1.20		1.60	15.36			
			5X2	0.90		2.00	18.00			
		W	2X4	1.50		0.90	10.80			
		Almira door	2X2	1.50		0.90	5.40			
							<b>49.56</b>			
		<b>Total A (Qnty for 7 Room)</b>					<b>346.92</b>			
		Room No. 14 & 15								
		D	2X2	1.20		2.60	12.48			
			3X2	0.90		2.00	10.80			
		Almira door	1X2	1.50		2.10	6.30			
		W	2X4	1.20		1.60	15.36			
							44.94			
		<b>Total B (Qnty for 2 Room)</b>					<b>89.88</b>			
		<b>Total Qnty A+B</b>					<b>436.80</b>			
		Corridor Gate	2X2	2.00		2.60	20.80			
		W	2X4	1.20		1.60	15.36			
		D	2X4	1.20		2.60	24.96			
		door window at back wall of private ward								
		W	10X2	0.90		1.60	28.80			
		d	5X2	0.90		2.60	23.40			
		d1	2X2	1.00		2.60	10.40			
		W1	2X2	1.20		1.60	7.68			

Sl. No.	Item no.	PARTICULARS	No.	L	B	H	Qty	Unit	Rate	Amount
							568.20	sqm	62.1	27125.00
5	18.65	Providing and fixing PTMT bib cock of approved quality and colour.								
		18.65. 15 mm nominal bore, 122mm long. Weighing not less than 99 gms.								
		Room no- 09 - 3 noX9 Rooms	27				27.00	each	187.2	5054.00
6	18.66	Providing and fixing PTMT stop cock of approved quality and colour.								
		18.66. 15 mm nominal bore, 86mm long. Weighing not less than 88 gms.								
		2 noX 9 Rooms	18				18.00	each	173	3114.00
7	11.46	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS : 15622 of approved make in all Colours shades, Except burgundy, Bottle green, Black, laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement : 3 sand) jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.								
		Private Ward Room no. 09								
		Wall	2	3.70		1.80	13.32			
			2	4.20		1.80	15.12			
		Corridor	2	2.90		1.80	10.44			
			2	1.10		1.80	3.96			
		Kitchen	1	2.90		1.00	2.90			
		Bathroom	2	1.10		2.00	4.40			
			2	1.50		2.00	6.00			
		toilet	2	0.90		1.60	2.88			
			2	1.50		1.60	4.80			
		Deduction								
		d	4	0.90		1.80	-6.48			
		d	2	0.90		1.60	-2.88			
		d	1	0.90		2.00	-1.80			
		Room No. 14								
		Wall	2	3.80		1.80	13.68			
		wall	2	4.30		1.80	15.48			
		Corridor	2	2.30		1.80	8.28			
			2	0.80		1.80	2.88			
		Kitchen	1	2.20		1.00	2.20			
		toilet	2	0.90		1.60	2.88			
			2	1.50		1.60	4.80			
		Bathroom	2	1.10		2.00	4.40			
			2	1.50		2.00	6.00			
		Deduction								
		d	4	0.90		1.80	-6.48			
		d	1	0.80		1.60	-1.28			
		d	1	0.90		2.00	-1.80			
		Room No. 7								
		wall	1	2.70		1.20	3.24			
		wall	1	1.40		0.90	1.26			
		wall	1	0.90		0.80	0.72			
		wall	1	1.20		1.20	1.44			
		toilet wall	1	0.90		1.10	0.99			
		Bathroom	1	0.80		0.80	0.64			
			1	0.80		0.80	0.64			
		Room No. 8								
		wall	1	4.20		0.90	3.78			
			1	1.00		0.80	0.80			
			1	1.10		1.20	1.32			
		toilet	1	0.90		0.90	0.81			
			1	0.90		0.60	0.54			
		Bathroom	1	0.80		1.10	0.88			
			1	0.80		0.80	0.64			
		Kitchen	1	1.20		0.90	1.08			

Sl. No.	Item no.	PARTICULARS	No.	L	B	H	Qty	Unit	Rate	Amount
		Room no. 10								
		wall	1	3.80		1.50	5.70			
			1	1.40		0.60	0.84			
			1	0.90		1.20	1.08			
		toilet	1	0.40		0.90	0.36			
			1	0.90		1.10	0.99			
		Bathroom	1	0.90		1.20	1.08			
			1	0.80		1.40	1.12			
		Room No. 11								
		wall	1	3.20		1.20	3.84			
			1	1.40		1.40	1.96			
			1	0.90		0.90	0.81			
		toilet	1	0.90		1.20	1.08			
			1	0.80		1.20	0.96			
		Bathroom	1	1.00		1.60	1.60			
			1	0.80		1.20	0.96			
		Kitchen	1	1.96		0.80	1.57			
		Room no. 12								
		wall	1	2.60		1.10	2.86			
			1	0.90		1.20	1.08			
			1	0.60		0.80	0.48			
		toilet	1	0.60		0.90	0.54			
			1	0.40		0.60	0.24			
		Bathroom	1	0.90		1.60	1.44			
			1	0.60		1.20	0.72			
		Room no. 13								
		wall	1	3.30		1.10	3.63			
			1	0.80		1.20	0.96			
			1	0.60		0.60	0.36			
			1	0.40		0.40	0.16			
		toilet	1	0.60		0.60	0.36			
			1	0.70		0.90	0.63			
		Room No. 15								
		wall	1	2.90		1.10	3.19			
			1	2.50		0.90	2.25			
			1	1.20		1.60	1.92			
			1	1.20		0.80	0.96			
		Bathroom	1	0.80		1.50	1.20			
			1	1.20		1.80	2.16			
			1	0.80		1.10	0.88			
		Wall at back side of private ward								
		Wall	1	13.10		1.80	23.58			
		Main Corridor								
		Wall	1	13.10		0.60	7.86			
		Wall	1	11.40		0.80	9.12			
			1	7.20		0.60	4.32			
							<b>217.33</b>	sqm	644.4	140046.00
8	11.49	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (having thickness 9 to 10mm) of 1st quality conforming to IS : 15622 of approved make in colours White, Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:4 (1 Cement : 4 sand) including grouting the joints with white cement and matching pigments etc., complete.								
		Room no. 7								
		Floor	1	3.50		4.10	14.35			
		Corridor	1	2.90		1.10	3.19			
		toilet	1	0.90		1.50	1.35			
		bathroom	1	1.10		1.50	1.65			
		kitchen	1	2.80		1.80	5.04			
		Room no. 8								
		Floor	1	2.80		2.40	6.72			
		Corridor	1	0.90		0.90	0.81			
		toilet	1	0.90		1.50	1.35			
		bathroom	1	1.10		1.50	1.65			

Sl. No.	Item No.	Particulars	No.	L	B	H	Qty	Unit	Rate	Amount
		Room no. 9								
		Floor	1	1.20		1.60	1.92			
			1	1.80		0.80	1.44			
		toilet	1	0.90		0.80	0.72			
		Room No. 10								
		Floor	1	1.60		1.70	2.72			
			1	1.20		1.10	1.32			
		Corridor	1	1.70		0.80	1.36			
		bathroom	1	0.80		1.10	0.88			
		Room No. 11								
		Floor	1	1.20		1.90	2.28			
		toilet	1	0.40		0.60	0.24			
		Room No. 12								
		Floor	1	0.60		1.10	0.66			
		toilet	1	0.30		0.80	0.24			
		bathroom	1	0.80		0.90	0.72			
		Room No. 13								
		Floor	1	1.60		0.90	1.44			
			1	1.10		0.60	0.66			
		Corridor	1	1.20		0.60	0.72			
		bathroom	1	0.70		1.10	0.77			
		Room No. 14								
		Floor	1	2.70		1.10	2.97			
		Corridor	1	0.90		1.20	1.08			
		toilet	1	0.70		0.80	0.56			
							<b>58.81</b>	sqm	579.6	34086.00
9	14.51	Finishing walls with Acrylic Smooth exterior paint of required shade :								
		14.51. Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface).								
		1 back wall at private ward	1	34.40		4.10	141.04			
		Chhajja	1	34.40		1.00	34.40			
		Wall	1	25.30		4.10	103.73			
		Chhajja	1	13.10		1.00	13.10			
		Wall	2	3.10		2.80	17.36			
		deduction d	4	0.80		2.60	-8.32			
		d	2	0.90		2.10	-3.78			
		w	7	0.60		1.20	-5.04			
							<b>292.49</b>	sqm	78.03	22823.00
10	18.41	Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 sand) for fire hydrants, with C.I. surface box 350x350 mm. top and 165 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :								
		18.41. With common burnt clay bricks of 25 kg /sqcm compressive strength.								
			18				<b>18.00</b>	each	4651.2	83722.00
11	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means)								
		2.10.1 All kinds of soil								

Sl. No.	Item no.	PARTICULARS	No.	L	B	H	Qty	Unit	Rate	Amount
		2.10.1 .2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.							
			59.30				59.30	meter	140.4	8326.00
12	19.4	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete. Excavation to be paid seperately.								
		19.4.3	200 mm diameter OD							
			59.30				59.30	RM	675.9	40081.00
13	19.5	Providing and laying cement concrete 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20 mm nominal size) all-round PVC. pipes including bed concrete as per standard design:								
		19.5.3	200 mm diameter PVC. pipe							
			59.30				59.30	RM	738.9	43817.00
14	18.8	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.								
		Concealed work including cutting chases and making good the walls etc.,								
		18.8.1	15 mm nominal outer dia .Pipes.	34.30			34.30	metre	186.3	6390.00
		18.8.2	20 mm nominal outer dia .Pipes.	35.70			35.70	metre	210.6	7518.00
15	17.58	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes for working pressure of 4 kg/sqcm.								
		17.58.2	110 mm diameter (minimum wall thickness 3.2mm)	74.10			74.10	Meter	214.2	15872.00
		17.58.1	75 mm diameter (minimum wall thickness 3.2mm)	38.10			38.10	Meter	122.4	4663.00
16	17.61	Providing and fixing uPVC trap of self cleaning design complet. Including cost of cutting and making good the wall and floors.								
		17.61.1	100 mm inlet and 75 mm outlet	18			18.00	each	465.3	8375.00
17	17.60	Providing and fixing Unplasticised -PVC pipe clips of approved design to Unplasticised - PVC soil and waste pipes by means of bombay nail of required length including and making good the wall etc. complete.								
		17.60.1	75 mm	20			20.00	each	29.7	594.00
		17.60.2	110 mm	36			36.00	each	45	1620.00
18	17.59	Providing and fixing unplasticised PVC moulded fittings/ accessories for unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.								
		17.59.3	Single tee with door							

Sl. No.	Item no.	PARTICULARS		No.	L	B	H	Qty	Unit	Rate	Amount
		17.59.3.2	110x110x110 mm	8				8.00	each	311.4	2491.00
		17.59.5	Bend 87.50								
		17.59.5.1	75 mm bend	10				10.00	each	105.3	1053.00
		17.59.5.2	110 mm bend	21				21.00	each	154.8	3251.00
20	9.162	Providing and fixing factory made UPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge:									
		9.162.2	Extruded section Profile size 42x50 mm.								
				40				40.00	metre	187.2	7488.00
			<b>Total Amount</b>								<b>665544.00</b>

Sub Engineer  
NHM, Bhopal

Assistant Engineer  
Joint Director , Health Services,  
Bhopal



ESTIMATE FOR ELECTRICAL WORKS.					
S.No.	Item	Unit	Rate	Quantity	Amount
	<b>P.W.D. S.O.R. BASED ITEMS</b>				
1	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Surface rigid P.V.C. conduit (MMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit including painting etc. as required as per specification for :-				
	<b>Light Point/Fan Points.</b>				
	a) Short point	Each	354.60	88	31205.00
	b) Medium point	Each	603.90	25	15098.00
	c) Long point	Each	974.70	15	14621.00
2	Supplying, Fixing and Testing of Compact Fluorescent Lamp (CFL) with inbuilt electronic ballast ISI marked BC / ES cap of approved make as required as per specification				
	15 Watt	Each	174.60	14	2444.00
3	Fixing of Fluorescent Tube fitting on wall /ceiling on wooden round block with anchor fastener /J hook & necessary material including connection with 3 core flexible wire etc. complete as required.	Each	60.30	9	543.00
4	Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/ Anchor hole fastners etc. complete finished of approved as required.				
	300mm sweep 900 RPM	Each	2626.20	9	23636.00
	<b>TOTAL AMOUNT</b>				<b>87547.00</b>