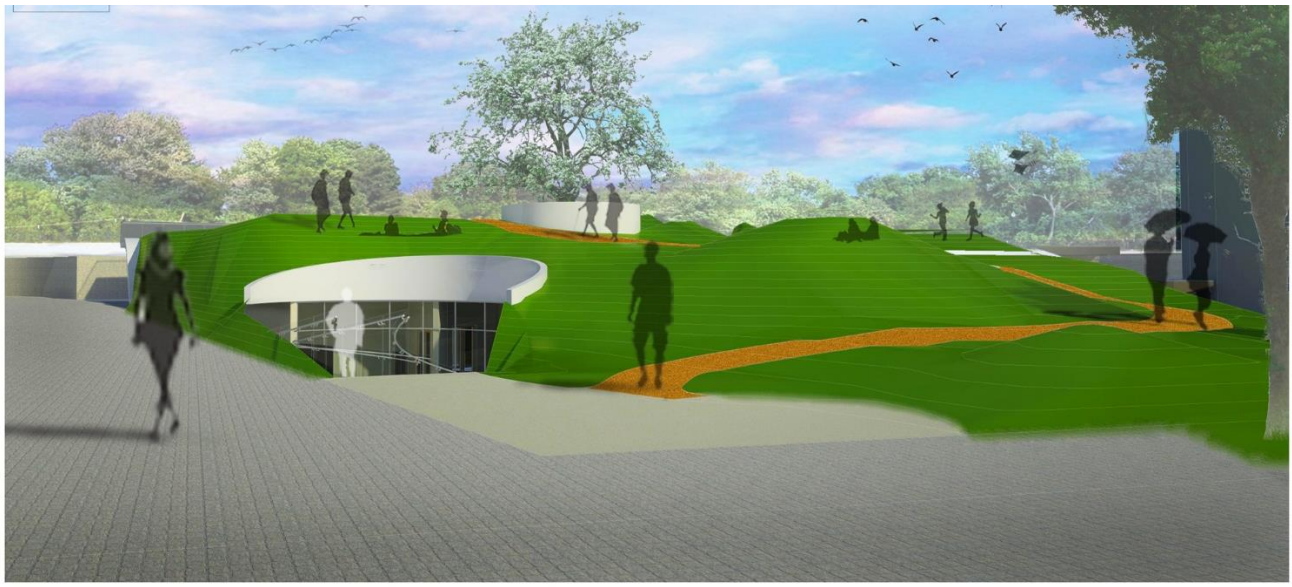

CONSTRUCTION OF INTIMATE THEATRE AND O.A.T. AT BHAWARTAL PARK, JABALPUR, M.P.

AGENCY:

JABALPUR SMART CITY LIMITED

BILL OF QUANTITIES

COST:

RS 14.11 CR.

FORMAT - B

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR

PROMOTER: JABALPUR SMART CITY LIMITED

All Amount in Rs.

S.No.	Name Of Project Sub Head	Built Up Area in Sq.m.	Amount SOR	Amount NON SOR	Amount TOTAL	Unit Area Rate (Rs./Sq. m.)	Reference Format
1	2	3	4	5	6	7	8
1	Cost of construction of Intimate theatre	2019.65	102,178,677	9,657,269	111,835,946	55,374	Format C
2	Amenities - Intimate theatre	2019.65	-	23,310,649	23,310,649	11,542	Format C
SUB TOTAL		**2019.65**	**102,178,677**	**32,967,918**	**135,146,595**	**66,916**	**Format C**
D	SITE DEVELOPMENT	2019.65	5,185,078	766,147	5,951,225	2,567	Format D
TOTAL			**107,363,755**	**33,734,065**	**141,097,820**	**69,483**	
				PROJECT TOTAL	141,097,820	14.11 CRORE	

Sub Engineer
J.S.C.L., Jabalpur

Executive Engineer
J.S.C.L., Jabalpur

M/S A. WALLABH AND WALLABH ASSOCIATES
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PH 9555577554, 9718306399

FORMAT - C

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR

Name of Project Sub Head :-			Cost of construction of AUDITORIUM BUILDING				
Built up Area (in Sqm.) :-			2,020		SQM		

GENERAL ABSTRACT

All Amount in Rs.

Type Of Work	Component NO.	Name of Component	Amount SOR	Amount NON SOR	Amount TOTAL	Unit Area Rate (Rs./Sq.m.)	Reference Format
1	2	3	4	5	6	7	8
BUILDING WORKS	1	Civil Work	72,185,801	-	72,185,801	35,742	Format1A
	2	Interior Work	21,975,190	9,657,269	31,632,459	15,662	Format1B
	3	Internal Water supply ,Plumbing and Sanitary	978,654	-	978,654	485	Format 1 C
	4	Internal Electrification	7,039,033	-	7,039,033	3,485	Format 1D
	Sub Total - BUILDING WORKS		**102,178,677**	**9,657,269**	**111,835,946**	**55,374**	
BUILDING AMENITIES	5	Fire suppression system		1,732,274	1,732,274	858	Format 1E
	6	fire Alarm System		604,326	604,326	299	Format 1F
	7	HVAC		5,577,939	5,577,939	2,762	Format N
	8	Lifts		3,777,000	3,777,000	1,870	Format L
	9	Sound System		4,652,452	4,652,452	2,304	Format M
	10	Furniture		6,470,027	6,470,027	3,204	Format P
	11	CCTV		496,631	496,631	246	Format Q
	Sub Total - AMENITIES		**-**	**23,310,649**	**23,310,649**	**11,542**	
	(BUILDING WORKS + AMENITIES)		**102,178,677**	**32,967,918**	**135,146,595**	**66,916**	

Sub Engineer
J.S.C.L., Jabalpur

Executive Engineer
J.S.C.L., Jabalpur

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FORMAT - D

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR

Name of Project Sub Head :-	SITE DEVELOPMENT	
Building Area in Sq.m. :-	2,019.65	sqm

General Abstract- Site Development

All Amount in Rs.

Type Of Work	Component NO.	Name of Component	Amount SOR	Amount NON SOR	Amount TOTAL	Unit Area Rate (Rs/Sqm.)	Reference Format
1	2	3	4	5	6		8
SITE DEVELOPMENT	1	External Water Supply	513,390.00	-	513,390.00	254	Format T
	2	External electrification	3,219,506	-	3,219,506	1,594	Format U
	3	External Drainage	601,238.50	-	601,238.50	298	Format V
	4	Landscaping	850,943.50	766,147.43	1,617,091	801	Format W
		Total SITE SERVICES	**5,185,078**	**766,147**	**5,951,225**	**2,947**	

Sub Engineer
J.S.C.L., Jabalpur

Executive Engineer
J.S.C.L., Jabalpur

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			FORMAT - E	1	a

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-	1			
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDIN			
S.No. of Component :-	a			
Name of Component :-	Civil Work			

Abstract Of Cost

				All Amount in Rs.		
SNO	**SOR Item NO.**	**Description Of Item**	**Unit**	**Quantity**	**RATE**	**Amount**
1	2	3	4	5	6	7.00
SOR ITEMS						
		EARTHWORK				
1	2.28 UADD	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
	2.28.1	All kinds of soil	100 Sqm	4200.00	663.00	27846.00
2	2.33 UADD	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material.				
	2.33.3	Beyond 1200 cm girth upto and including 240 cm girth	each	7.00	2177.00	15239.00
	2.33.4	Above 240 cm girth	each	3.00	4311.00	12933.00
3	2.6 UADD	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	2.6.1	All kinds of soil	cum.	6590.92	127.00	837046.72
4	2.26 UADD PG-24	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)				

Name of Component :-			Civil Work			
	2.26.1	All kinds of soil.	cum.	2516.47	24.00	60395.19
5.00	2.24 UADD	Extra rates for quantities of works, executed: (The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions).				
	2.24.1	In or under water and/or liquid mud, including pumping out water as required.(All water that may accumulate in excavations during the progress of the work from seepage, (not due to the negligence of the contractor), shall be bailed, pumped out or otherwise removed. The contractor shall take adequate measures for bailing and/or pumping out water from excavations and/or pumping out water from excavations and construct diversion channels, bunds, sumps, etc)				
		(20% of the rate of the item. The extra percentage in rate is applicable in respect of each item but limited, to quantities of, work excuted,in difficult condition.)	cum.	2516.47	25.40	63918.24
		P.C.C.				
6	4.1 UADD	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.2	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	Cum	469.64	4154.00	1950880.94
7	4.3 UADD	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.				
	4.3.1	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	cum	21.79	4154	90505.28

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Name of Component :-			Civil Work			
8.00	4.2 UADD	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. up to floor two level, excluding the cost of centering, shuttering and finishing :				
	4.2.2	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	CUM	5.61	5998	33673.97
		R.C.C.				
9.00	16.2 UADD	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap M 35 in cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap)				
	16.2.3	450 mm dia piles	MT	282.00	1919.00	541158.00

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Name of Component :-			Civil Work			
10	5.31 PWD SOR	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Note : Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately)				
	5.31.1	All works upto plinth level.	Cum	1418.12	6280.00	8905782.64
	5.32.2	All works above plinth level and upto floor V level.	cum	1306.82	6434.00	8408073.99
11	5.28 PWD SOR	Extra for providing richer mixes at all floor levels. Note : If Excess/ less cement over the specified cement content used is payable/ recoverable separately)				
	5.28.1	Providing M-30 grade concrete instead of M-25 grade BMC/RMC. Note : Cement content considered in M-30 is @ 340 kg/cum)	Cum	3006.94	70.00	210485.61
12	5.29	Add/deduct for using extra/ less cement in the items of design mix over and above the specified cement content therein.	QT	751.73	669.00	502910.27

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Name of Component :-			Civil Work			
13	5.25 PWD SOR	Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. Note For Item No. 5.25:- The quantity will be calculated by multiplying the depth measured from the subsoil water level up to the centre of gravity of the R.C.C. under ubsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reckoned correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under sub - soil water conditions.				
			CUM	1381.98	297.00	410448.71
		STEEL				
14	5.20 UADD	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
	5.20.6	Thermo-Mechanically Treated bars.(TMT)	kg	454047.5	60.00	27242852.30
15	5.20.7	Add extra for providing reinforcement above Floor two level for every additional floor or part there of.			1% of the respecti ve item	
			Kg	60138.7	0.6	36083.25
		FORMWORK				
16	20.1 UADD P.No. 215	Centering and shuttering including strutting, propping etc. and removal of form for :				
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.	sqm	481.07	138.00	66387.66
17	20.1.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc	sqm	4620.64	216.00	998058.24
18.00	20.1.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	sqm	1055.03	282	297517.90
19.00	20.1.5	Lintels, beams, girders, bressumers and cantilevers.	sqm	2558.83	203	519442.41
20.00	20.1.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	1544.07	227	350504.21

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Name of Component :-			Civil Work			
21.00	20.1.7	Stairs, (excluding landings) except spira staircases.	sqm	211.64	278	58836.62
22.00	20.1.21	Weather shades, Chajjas Corbels etc incl edges	sqm	43.13	352	15181.76
		EARTH REFILL				
23	2.25 UADD P.No-24	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	1631.81	59.00	96276.86
24	1 .1 UADD	Loading and unloading of stone boulder / stone aggregates / sand / kanker / moorum. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip)				
	1.20	Transportation rate of different other material in comparison with 20 mm metal. (i.e. @ Rs. 48.81 Per Cum)			Rate as % ofmetal	
	e	Excavated Earth (25% ABOVE)				
	f	Excavated ordinary rock measured (100% ABOVE)				
	1 .1	Transportation of metal 20 mm	Cum	10073.19	207.00	2085149.87
25	2 .27 UADD	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.				
	2.27.3	Moorum/Hard copra	cum	90.52	570	51595.46
26	2 .27.1 UADD	Crusher Stone Dust	cum	315.94	628	198408.49
27	2.28.2 PWD SOR	Supplying and filling in plinth with soil (other than B.C. soil) having MDD not less than 1.85 t/M3 under floors including watering, ramming, compacting (minimum compaction 95% of MDD), in layers not exceeding 15 cms in depth and dressing complete		11.31	250	2828.70

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Name of Component :-			Civil Work			
28	2 .32 PWD SOR	Pre construction antitermite treatment to the building underconstruction by providing 1: Treating the bottom and the sides (up to 30cm hight of the excavated trench ©litter per sqm of the surface area. Staa=e 2: After masonry/RCC work, the backfill in the immdiate contact with the foundation structure treatment .5 litter per sqm. of the vertical surface of the substructure for each side. Staa=e 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors ©.0 litres/Sqm. Staa=e 4: Pumping the emulsion in plinth masonry on filling side at floor junction 5 litres/Sqm.				
		Stage 5: Pumping the emulsion from outer side of the plinth below ground alround the masonry <©.0 litres/Sqm as per I.S. 8944 Emulsion. (Ichlo-rpyrifos: 19 water with five years serv-ice guarantee (Measurements to be taken for plinth area)	Sqm	4849.32	136	659507.90
		BRICK WORK				
29	6.31 UADD	Providing and laying autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in super structure above plinth level up to floor II level in cement mortar 1:4 (1 cement : 4 coarse sand) The rate includes providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of masonry work.scaffolding	CUM	822.76	5910.00	4862482.05
30	6.32 UADD	Extra for AAC block masonry in superstructure above floor II level for every floor or part there of.	cum	1175.88	136.00	159919.27
		PLASTER				
31	13.3 UADD	20 mm cement plaster of mix				
	13.3.3	1:6 (1 cement : 6 sand)	Sqm	3568.17	137.00	486839.07

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Name of Component :-			Civil Work			
32	13.1 UADD	12 mm cement plaster of mix :				
	13.1.3	1:6 (1 cement: 6 fine sand)	Sqm	4807.16	112.00	538401.36
33	13.2.1	1:4 (1 cement: 4 fine sand)	sqm	2138.21	127.00	271552.67
34	13.17 UADD	6 mm cement plaster 1:3 (1 cement: 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	Sqm	2019.65	112.00	226200.29
35	5.27 UADD	Providing for plaster drip course/ groove in plastered surfuce or moulding to R.C.C. projections.	RM	50.90	15.00	763.50
		WATER PROOFING				
	18.14 UADD	Grading roof for water proofing treatment with (upto two floor level)				
	18.14.2	Cement mortar 1:3 (1 cement: 3 sand)	CUM	157.97	6535	1032324.43
	18.17 UADD	Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat which shall be paid for separately.		5159.51	466	2373.14

Name of Component :-			Civil Work			
	18.5 UADD	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying a) First layer of slurry of cement @ 0.488 kglsqm mixed with water proofing cement compound @ 0.253 kglsqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kglsqm mixed with water proofing cement compound @ 0.126 kglsqm This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonary with polymer mixes slurry.	Sqm	88.41	193.00	17063.13
	22.22 CPWD	Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc. at the time of transporting of concrete into the drum of the ready-mix truck, using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.	KG	12027.75	376.40	4527244.86

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Name of Component :-			Civil Work			
	22.23 CPW D	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage				
	22.23.2	For horizontal surface one coat @1.10 kg per sqm.	SQM	1269.50	362.35	460003.83
	22.23 A CPW D	Providing & Applying polymer modified, flexible cementatious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35 kg /10 sqm. one coat of self priming of cementatious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementatious waterproofing polymer (dilution with water in the ratio of 3:1) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge	SQM	5159.51	368.20	1899730.41

Name of Component :-			Civil Work			
	22.26 CPWD	Providing and applying of swellable type water stop tape, 19mm x 25mm thick in linear meter (expansive nature) for construction joints treatment of RCC structure, such as raft slab, retaining walls, water storage tank and at the junctions of raft slab with the retaining walls etc.. After cleaning the surface, one coat of required primer for swellable water stop tape shall be applied throughout the length of the joint @3.78 litre per 240 running meter. Over the primed surface swellable type water stop tape shall be placed. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage.	MT	1074.30	538.00	577973.40
		SUB TOTAL SOR ITEMS				**72185800.60**
		Sub Engineer J.S.C.L., Jabalpur		Executive Engineer J.S.C.L., Jabalpur		

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				FORMAT - E		1.00	b

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-			1.00			
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDING					
S.No. of Component :-			b			
Name of Component :-			Civil Work			

Quantity Sheet

S.No	SOR ITEM NO.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity
1	2	3	4	5.00	6.00	7.00	8.00	9.00
				SOR ITEMS				
		BASEMENT						
		AREA UNDER PLINTH BEAMS						
			H	1.00	6.00	0.30		1.80
				1.00	11.00	0.30		3.30
				1.00	4.50	0.30		1.35
				1.00	12.20	0.30		3.66
			V	1.00	27.80	0.30		8.34
				1.00	28.00	0.30		8.40
								26.85
		AREA INSIDE ROOMS						
		GREEN ROOM		1.00	6.50	5.60		36.40
		STORE		1.00	4.00	2.20		8.80
		PORCH BOTT		1.00	5.30	2.20		11.66
		STAIRS		1.00	6.20	3.60		22.32
		GREEN ROOM 2		1.00	7.80	4.00		31.20
		VIP		1.00	3.00	3.00		9.00
		CORRIDOOR		1.00	2.60	18.50		48.10
				2.00	3.80	3.20		24.32
		POARCH		1.00	2.00	1.50		3.00
		SPILL OUT		1.00	5.10	4.00		20.40
				1.00	6.00	3.00		18.00
		STAGE		1.00	7.40	14.40		106.56
		LIFT		1.00	1.90	2.40		4.56
		HALL		1.00	4.30	16.20		69.66
				1.00	1.20	17.20		20.64
				1.00	1.20	18.20		21.84
				1.00	1.20	18.80		22.56
				1.00	1.20	19.60		23.52
				1.00	1.20	20.80		24.96
				1.00	1.20	21.40		25.68
				1.00	1.20	22.20		26.64
				1.00	2.80	25.40		71.12
				(1.00)	1.40	7.40		10.36
		FIRE EXIT		1.00	2.20	16.80		36.96

Name of Component :-					Civil Work			
				1.00	2.00	0.60		1.20
		PREFUNCTION		1.00	7.40	27.00		199.80
				1.00	3.50	6.00		21.00
				1.00	2.40	2.40		5.76
		OFFICE		1.00	4.80	13.20		63.36
		TKT		1.00	3.00	4.50		13.50
		AHU		1.00	4.80	3.80		18.24
		PLAZA		1.00	5.10	CIRCLE		81.67
		RAMP		1.00	3.20	16.70		53.44
		OAT STAIRS		1.00	3.20	8.80		28.16
		OAT RAMP DN		1.00	1.50	14.60		21.90
		TOTAL INSIDE AREA EXCLUDING TOILETS ON BASEMENT FLOOR						**1185.57**
		TOILET AREAS ON BASEMENT FLOOR						
		TOI M		1.0	3.0	5.6		16.80
		TOI F		1.0	3.0	5.2		15.60
		TOI S		1.0	2.0	1.8		3.60
		TOI PHD		1.0	1.8	2.6		4.68
		TOI F		0.5	5.6	4.8		13.44
				1.0	3.6	1.6		5.76
		TOI M		1.0	3.7	4.7		17.39
				1.0	1.8	3.7		6.66
		TOI AREAS ON BASEMENT						**83.93**
		TOTAL INSIDE AREA INCLUDING TOILETS ON BASEMENT FLOOR						**1269.50**
		AREA UNDER O.A.T						
		OAT STEPS		0.5	5.50	CIRCLE	5.00	8.24
				0.5	5.00	CIRCLE	4.50	7.46
				0.5	4.50	CIRCLE	4.00	6.67
				0.5	4.00	CIRCLE	3.50	5.89
				0.5	3.50	CIRCLE	3.00	5.10
				0.5	3.00	CIRCLE	2.25	6.18
				1.00	2.25	CIRCLE		15.90
				0.50	3.25	CIRCLE	2.25	8.64
				0.50	4.25	CIRCLE	3.25	11.78
				0.50	5.25	CIRCLE	4.25	14.92
				0.50	6.25	CIRCLE	5.25	18.06
				0.50	7.25	CIRCLE	6.25	21.20
				0.50	8.25	CIRCLE	7.25	24.34
				0.50	9.25	CIRCLE	8.25	27.48
				0.30	10.25	CIRCLE	9.25	18.37
				0.25	11.25	CIRCLE	10.25	16.88
				0.13	12.25	CIRCLE	2[illegible]	9.22
								226.30

Name of Component :-					Civil Work			
		BUILTUP AREA IN BASEMENT FLOOR		0.50	2.80	9.10		12.74
				0.50	19.80	6.80		67.32
				1.00	41.40	23.60		977.04
				(0.50)	2.00	5.40		-5.40
				(0.50)	4.60	4.20		-9.66
				0.50	2.50	5.00		6.25
				0.50	35.40	20.40		361.08
				0.50	24.70	6.80		83.98
				0.40	5.10	CIRCLE		32.90
				1.00	3.20	16.70		53.44
								1579.69
		GROUND FLOOR						
		AREA UNDER BEAMS						
		BACK STAGE	H	1.0	8.5	0.3		2.55
				1.0	9.6	0.3		2.88
				1.0	2.0	0.3		0.60
				1.0	10.2	0.3		3.06
				1.0	5.0	0.3		1.50
				1.0	8.6	0.3		2.58
				1.0	10.0	0.3		3.00
				1.0	4.0	0.3		1.20
				1.0	7.6	0.3		2.28
				1.0	3.2	0.3		0.96
				1.0	12.2	0.3		3.66
				1.0	6.0	0.3		1.80
			V	1.0	23.2	0.3		6.96
				1.0	2.8	0.3		0.84
				1.0	11.2	0.3		3.36
				1.0	3.8	0.3		1.14
				1.0	1.7	0.3		0.51
				1.0	2.6	0.3		0.78
				1.0	24.7	0.3		7.41
				1.0	25.1	0.3		7.53
				1.0	3.2	0.3		0.96
				1.0	1.6	0.3		0.48
				1.0	8.5	0.3		2.55
		AUDI	H	1.0	21.0	0.3		6.30
				1.0	25.5	0.3		7.65
				2.0	3.5	0.3		2.10
				1.0	3.2	0.3		0.96
				1.0	3.6	0.3		1.08
				1.0	3.1	0.3		0.93
				2.0	5.2	0.3		3.12
				2.0	13.7	0.3		8.22
				1.0	17.4	0.3		5.22
			V	1.0	3.2	0.3		0.96
				5.0	3.1	0.3		4.65

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Name of Component :-					Civil Work			
				1.0	6.1	0.3		1.83
				1.0	4.7	0.3		1.41
				1.0	3.6	0.3		1.08
				1.0	4.2	0.3		1.26
				1.0	4.0	0.3		1.20
				1.0	4.5	0.3		1.35
				1.0	3.2	0.3		0.96
				6.0	1.6	0.3		2.88
			OAT	1.0	16.0	0.3		4.80
				1.0	35.0	0.3		10.50
				1.0	39.0	0.3		11.70
		AREA UNDER BEAMS ON GF						**138.75**
		AREA UNDER ROOF BEAMS						
		BACK STAGE	H	1.0	8.5	0.3		2.55
				2.0	9.6	0.3		5.76
				1.0	2.0	0.3		0.60
				1.0	10.2	0.3		3.06
				1.0	5.0	0.3		1.50
				1.0	8.6	0.3		2.58
				1.0	10.0	0.3		3.00
				1.0	4.0	0.3		1.20
				1.0	7.6	0.3		2.28
				1.0	3.2	0.3		0.96
				1.0	12.2	0.3		3.66
				1.0	6.0	0.3		1.80
			V	1.0	23.2	0.3		6.96
				1.0	2.8	0.3		0.84
				1.0	11.2	0.3		3.36
				1.0	3.8	0.3		1.14
				1.0	1.7	0.3		0.51
				1.0	2.6	0.3		0.78
				1.0	24.7	0.3		7.41
				1.0	25.1	0.3		7.53
				1.0	3.2	0.3		0.96
				1.0	1.6	0.3		0.48
				1.0	8.5	0.3		2.55
		AUDI	H	1.0	21.0	0.6		12.60
				1.0	25.5	0.6		15.30
				2.0	3.5	0.6		4.20
				1.0	3.2	0.6		1.92
				1.0	3.6	0.6		2.16
				1.0	3.1	0.6		1.86
				2.0	5.2	0.6		6.24
				2.0	13.7	0.6		16.44
				1.0	17.4	0.6		10.44
				1.0	37.4	0.6		22.44
			V	1	12.2	0.6		7.32

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Name of Component :-					Civil Work			
				1	22	0.6		13.20
				1	21.7	0.6		13.02
				1	23.7	0.6		14.22
				1.0	26.5	0.6		15.90
				1.0	30.9	0.6		18.54
				1.0	23.2	0.6		13.92
				1.0	37.8	0.6		22.68
		PREFUNCTION	H	1.0	3.8	0.3		1.14
				1.0	20.5	0.3		6.15
				1.0	5.8	0.3		1.74
				1.0	7.2	0.3		2.16
				1.0	11.0	0.6		6.60
				1.0	16.2	0.6		9.72
				1.0	17.0	0.6		10.20
				2.0	12.5	0.3		7.50
				1.0	13.0	0.3		3.90
			V	1.0	27.2	0.3		8.16
				1.0	4.5	0.3		1.35
				1.0	25.5	0.3		7.65
				1.0	28.6	0.3		8.58
								348.72
		INSIDE AREAS ON GF						
		ENTRANCE		1.00	2.50	7.00		17.50
		WAITING		1.00	7.40	3.90		28.86
		VIP ROOM		1.00	5.40	5.80		31.32
		LOBBY		1.00	3.80	3.10		11.78
		CORRIDOOR		1.00	2.60	6.10		15.86
				1.00	3.80	3.20		12.16
		CONTROL ROOMS		1.00	3.00	6.80		20.40
		SHOP 1		0.50	5.30	6.60		17.49
		SHOP 2		1.00	4.60	5.20		23.92
		STAIRS		1.00	4.50	3.20		14.40
		entry 2		1.00	4.50	2.20		9.90
		SERVICES		1.00	7.00	9.50		66.50
		INSIDE AREAS ON GF						**270.09**
		TOI AREAS ON GF		1.00	1.60	2.80		**4.48**
		INSIDE AREAS WITH TOI ON GF						**274.57**
		BUILTUP AREA ON GF		0.50	2.80	9.10		12.74
				0.50	19.80	6.80		67.32
				1.00	9.10	19.80		180.18
				1.00	4.40	17.20		75.68
				1.00	3.00	7.20		21.60
				0.50	10.20	5.40		27.54
				0.50	13.50	7.20		48.60
				0.50	3.50	3.60		6.30
					BUILTUP AREA ON GF			**439.96**

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Name of Component :-					Civil Work			
		TOTAL BUILTUP AREA OF BUILDING BASEMENT +GROUND FLOR						**2019.65**
1	2.28 UADD	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.	sqm.					
		SITE AREA		1.0	60.0	70.0		4200.00
					TOTAL QUANTITY			**4200.00**
2	2.33 UADD	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable material and disposal of unserviceable material.						
	2.33.3	Beyond 1200 cm girth upto and including 240 cm girth	each					7.00
	2.33.4	Above 240 cm girth	each					3.00
3	2.6 UADD	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.	CUM					
		BUILDING		0.50	3.50	10.50	3.35	61.56
				0.50	21.20	7.50	3.35	266.33
				1.00	8.80	24.30	3.35	716.56
				1.00	12.80	24.30	4.25	1321.92

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Name of Component :-					Civil Work			
				(0.50)	1.30	4.70	3.35	-10.23
				1.00	22.30	13.30	4.25	1260.51
				1.00	4.20	10.20	4.25	182.07
				1.00	6.30	29.70	4.25	795.22
				1.00	15.20	24.30	2.25	831.06
				0.50	10.30	7.00	2.25	81.11
				(0.50)	3.90	3.50	2.25	-15.36
				0.40	5.80	CIRCLE	2.25	95.73
				1.00	3.90	17.00	2.25	149.18
				0.50	21.00	12.50	2.25	295.31
				0.50	3.50	59.00	2.25	232.31
		UGT + SUMPS		4.00	1.50	2.50	3.75	56.25
				2.00	3.00	4.00	7.20	172.80
				1.00	4.00	4.75	5.20	98.80
						TOTAL QUANTITY		**6590.92**
4	2.26 UADD PG-24	Extra for every additional lift of 1.5 m or part thereof in excavation. (No extra lift is payable if work is done by mechanical means)						
			2.0	0.5	3.5	10.5	0.9	33.99
			2.0	0.5	21.2	7.5	0.9	147.08
			2.0	1.0	8.8	24.3	0.9	395.60
			2.0	-0.5	1.3	4.7	1.4	-8.40
			2.0	1.0	22.3	13.3	0.9	548.69
			2.0	1.0	4.2	10.2	1.4	117.81
			2.0	1.0	6.3	29.7	1.4	514.55
				1.0	15.2	24.3	0.8	277.02
				0.5	10.3	7.0	0.8	27.04
				-0.5	3.9	3.5	0.8	-5.12
				0.4	5.8	CIRCLE	0.8	1.75
				1.0	3.9	17.0	0.8	49.73
				0.5	21.0	12.5	0.8	98.44
				0.5	3.5	59.0	0.8	77.44
		UGT + SUMPS	2.0	4.0	1.5	2.5	1.1	33.75
			4.0	2.0	3.0	4.0	1.4	136.80
			3.0	1.0	4.0	4.8	1.2	70.30
						TOTAL QUANTITY		**2516.47**

Name of Component :-					Civil Work			
5	2.24 UADD	Extra rates for quantities of works, executed: (The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions).						
	2.24.1	In or under water	WATER TABLE AT 1.5 MTS BELOW NGL					
			HENCE QTY SAME AS EXTRA LIFT					**2516.47**
		P.C.C.						
6	4.1 P.No.45	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
	4.1.2	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	**CUM**	**NOS**	**L**	**B**	**D**	**TOTAL**
		AREA UNDER EXCAVATION		0.5	3.5	10.5	0.15	2.76
				0.5	21.2	7.5	0.15	11.93
				1.0	8.8	24.3	0.15	32.08
				-0.5	1.3	4.7	0.15	-0.46
				1.0	22.3	13.3	0.15	44.49
				1.0	4.2	10.2	0.15	6.43
				1.0	6.3	29.7	0.15	28.07
				1.0	15.2	24.3	0.15	55.40
				0.5	10.3	7.0	0.15	5.41
				-0.5	3.9	3.5	0.15	-1.02
				0.4	5.8	CIRCLE	0.15	6.38
				1.0	3.9	17.0	0.15	9.95
				0.5	21.0	12.5	0.15	19.69
				0.5	3.5	59.0	0.15	15.49
		UGT + SUMPS		4.0	1.5	2.5	0.15	2.25
				2.0	3.0	4.0	0.15	3.60
				1.0	4.0	4.8	0.15	2.85
						TOTAL QUANTITY		**245.27**
		PCC UNDER FLOOR with 20mm graded conc	AREA INSIDE ROOMS	SQM		1269.5	0.15	190.43
		PCC UNDER OAT				226.3	0.15	33.94
						TOTAL QUANTITY		**224.37**

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Name of Component :-					Civil Work			
					TOTAL QUANTITY OF P.C.C.			**469.64**
7	4.4.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.						
		KERB STONE	**CUM**	**L**	**B**	**W**	**H**	**TOT**
				2.00	41.00	0.15	0.25	3.08
				2.00	108.00	0.15	0.25	8.10
				1.00	70.00	0.15	0.25	2.63
				1.00	141.00	0.15	0.25	5.29
				1.00	72.00	0.15	0.25	2.70
						TOTAL QUANTITY		**21.79**
8	4.2 UADD	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. up to floor two level, excluding the cost of centering, shuttering and finishing :						
	4.2.2	Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	CUM	NOS	L	B	H	TOTAL VOL = NOS X L X B X H X 0.5
		STEPS		6	2.50	0.30	0.15	0.34
				8	1.70	0.30	0.17	0.34
				8	2.20	0.30	0.17	0.44
				8	1.50	0.30	0.15	0.27
				6.00	1.20	0.20	0.20	0.14
				14.00	2.70	0.15	0.30	0.85
				6.00	2.00	0.15	0.30	0.27
		STAIRS	ST1	24.00	1.50	0.15	0.30	0.81
		RAMPUP		64.00	1.50	0.15	0.30	0.16
						TOTAL QUANTITY		**5.61**

Name of Component :-					Civil Work			
		R.C.C.						
9	16.2 UADD	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap M 35 in cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap)		NOS	DEPTH			TOTAL
	16.2.3	450 mm dia piles	MT	47.00	06.00			**282.00**

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Name of Component :-					Civil Work			
10	5.31 PWD SOR	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures						
	5 .1 .1	M 20 Nomial mix - BELOW PLINTH						
		FOR RAFT	B.U.A. IN BASEMENT			1579.7	0.60	**947.81**
		FOR PL BEAM	AREA UNDER PLINTH BEAMS			26.9	0.30	**8.06**
		FOR RETAINING WALLS		1.00	8.30	0.30	3.50	8.72
				1.00	23.30	0.30	3.50	24.47
				1.00	12.20	0.30	3.50	12.81
				1.00	6.80	0.30	3.50	7.14
				1.00	17.50	0.30	4.40	23.10
				2.00	22.40	0.30	2.40	32.26
				1.00	3.20	0.30	2.40	2.30
				1.00	8.20	0.30	2.40	5.90
				1.00	7.50	0.30	2.40	5.40
				1.00	20.20	0.30	2.40	14.54
				1.00	5.70	0.30	2.40	4.10
				1.00	39.20	0.30	4.40	51.74
				1.00	17.10	0.30	4.40	22.57
				1.00	17.20	0.30	4.40	22.70
				1.00	10.50	0.30	2.40	7.56
			OAT	1.00	16.00	0.30	2.00	9.60
				1.00	35.00	0.30	2.00	21.00

Name of Component :-					Civil Work			
				1.00	39.00	0.30	3.20	37.44
						TOTAL QUANTITY		**313.36**
		COLUMN HEADS	C1	7.0	0.3	0.5	3.50	3.31
			C2	24.0	0.3	0.6	3.50	15.12
			C3	7.0	0.5	0.6	4.40	8.32
			C4	1.0	0.3	0.9	3.50	0.89
			C5	6.0	0.5	CIR	4.40	20.72
			C6	5.0	0.3	0.3	3.50	1.58
			C7	2	0.5	1.2	2.4	2.88
			C8	12	0.6	0.75	2.4	12.96
								65.78
		UGT + SUMPS		4.00	1.50	0.3	4.70	17.16
				4.00	2.50	0.30	4.70	20.28
				2.00	3.00	0.30	3.00	10.50
				2.00	4.00	0.30	3.00	12.60
				1.00	4.00	0.30	3.00	10.50
				1.00	4.75	0.30	3.00	12.08
								83.12
		TOTAL CONCRETE BELOW PLINTH	M25 GRADE			**TOTAL QUANTITY**		**1418.12**
	5.32.2	All works above plinth level and upto floor V level.						
		M 20 Nomial mix (with 20mm nominal size graded stone aggregate)						
		R.C.C.COLUMNS						
		BASEMENT FLOOR	C1	22	0.3	0.45	3.80	11.29
			C2	5	0.3	0.6	3.80	3.42
			C2	14	0.3	0.6	3.80	9.58
			C3	14	0.45	0.6	3.80	14.36
			C4	1	0.3	0.85	3.80	0.97
			C5	6	0.5	CIR	3.80	17.90
			C7	2	0.5	1.2	3.80	4.56
			C8	12	0.6	0.75	3.80	20.52
		TOTAL RCC COLUMN				**TOTAL QUANTITY**		**82.59**
		BEAMS			AREA UNDER BEAM		HT	**TOT**
		AT -1200 LVL				138.75	0.60	**83.25**
		AT 4900 LVL						
		BACK STAGE	H	1.00	8.50	0.30	0.60	1.53
				2.00	9.60	0.30	0.60	3.46
				1.00	2.00	0.30	0.60	0.36

Name of Component :-					Civil Work			
				1.00	10.20	0.30	0.60	1.84
				1.00	5.00	0.30	0.60	0.90
				1.00	8.60	0.30	0.60	1.55
				1.00	10.00	0.30	0.60	1.80
				1.00	4.00	0.30	0.60	0.72
				1.00	7.60	0.30	0.60	1.37
				1.00	3.20	0.30	0.60	0.58
				1.00	12.20	0.30	0.60	2.20
				1.00	6.00	0.30	0.60	1.08
			V	1.00	23.20	0.30	0.60	4.18
				1.00	2.80	0.30	0.60	0.50
				1.00	11.20	0.30	0.60	2.02
				1.00	3.80	0.30	0.60	0.68
				1.00	1.70	0.30	0.60	0.31
				1.00	2.60	0.30	0.60	0.47
				1.00	24.70	0.30	0.60	4.45
				1.00	25.10	0.30	0.60	4.52
				1.00	3.20	0.30	0.60	0.58
				1.00	1.60	0.30	0.60	0.29
				1.00	8.50	0.30	0.60	1.53
		AUDI	H	1.00	21.00	0.60	1.20	15.12
				1.00	25.50	0.60	1.20	18.36
				2.00	3.50	0.60	1.20	5.04
				1.00	3.20	0.60	1.20	2.30
				1.00	3.60	0.60	1.20	2.59
				1.00	3.10	0.60	1.20	2.23
				2.00	5.20	0.60	1.20	7.49
				2.00	13.70	0.60	1.20	19.73
				1.00	17.40	0.60	1.20	12.53
				1.00	37.40	0.60	1.20	26.93
			V	1.00	12.20	0.60	1.20	8.78
				1.00	22.00	0.60	1.20	15.84
				1.00	21.70	0.60	1.20	15.62
				1.00	23.70	0.60	1.20	17.06
				1.00	26.50	0.60	1.20	19.08
				1.00	30.90	0.60	1.20	22.25
				1.00	23.20	0.60	1.20	16.70
				1.00	37.80	0.60	1.20	27.22
		PREFUNCTION	H	1.00	3.80	0.30	0.60	0.68
				1.00	20.50	0.30	0.60	3.69
				1.00	5.80	0.30	0.60	1.04
				1.00	7.20	0.30	0.60	1.30
				1.00	11.00	0.60	1.20	7.92
				1.00	16.20	0.60	1.20	11.66
				1.00	17.00	0.60	1.20	12.24
				2.00	12.50	0.30	0.60	4.50
				1.00	13.00	0.30	0.60	2.34
			V	1.00	27.20	0.30	0.60	4.90
				1.00	4.50	0.30	0.60	0.81
				1.00	25.50	0.30	0.60	4.59
				1.00	28.60	0.30	0.60	5.15

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Name of Component :-					Civil Work			
						TOTAL QUANTITY		**352.58**
		RETAINING WALLS		1.00	8.30	0.30	3.70	9.21
				1.00	23.30	0.30	3.70	25.86
				1.00	12.20	0.30	3.70	13.54
				1.00	6.80	0.30	3.70	7.55
				1.00	17.50	0.30	3.70	19.43
				2.00	22.40	0.30	3.70	49.73
				1.00	3.20	0.30	3.70	3.55
				1.00	8.20	0.30	3.70	9.10
				1.00	7.50	0.30	3.70	8.33
				1.00	20.20	0.30	3.70	22.42
				1.00	5.70	0.30	3.70	6.33
				1.00	39.20	0.30	3.70	43.51
				1.00	17.10	0.30	3.70	18.98
				1.00	17.20	0.30	3.70	19.09
				1.00	10.50	0.30	3.70	11.66
				1.00	16.00	0.30	3.70	17.76
				1.00	35.00	0.30	3.70	38.85
				1.00	39.00	0.30	3.70	43.29
						TOTAL QUANTITY		**368.19**
		GF SLAB					HT	TOTAL
		BUILTUP AREA OF BF	CUM		AREA =	1,580	0.20	315.94
		BUILTUP AREA OF GF	CUM		AREA =	440.0	0.15	65.99
						TOTAL SLAB		**381.93**
		LINTELS ALL FLOORS	D1	1.00	3.20	0.20	0.20	0.13
			D2	1.00	2.20	0.20	0.20	0.09
			D3	6.00	2.00	0.20	0.20	0.48
			D4	10.00	1.70	0.20	0.20	0.68
			D5	7.00	1.40	0.20	0.20	0.39
			D6	10.00	1.10	0.20	0.20	0.44
			D7	13.00	0.95	0.20	0.20	0.49
			W1	1.00	2.20	0.20	0.20	0.09
			W2	12.00	1.40	0.20	0.20	0.67
			W3	2.00	1.10	0.20	0.20	0.09
			V1	2.00	1.40	0.20	0.20	0.11
			V2	6.00	1.10	0.20	0.20	0.26
			V3	4.00	0.80	0.20	0.20	0.13
			O	5.00	1.10	0.20	0.20	0.22
						TOTAL LINTELS		**4.27**
		CHAJJA BASEMENT	W1	1	2.2	0.60	0.10	3.90
			W2	12	1.4	0.60	0.10	14.10
			W3	2	1.1	0.60	0.10	3.80
			ENTRY	1.00	10.50	0.60	0.10	12.20
						TOTAL CHAJJA		**34.00**

Name of Component :-					Civil Work			
		TOTAL M25 CONCRETE ABOVE PLINTH	**TOTAL QUANTITY OF COLUMNS, BEAMS, SLABS, LINTEL AND CHAJJA**					**1306.82**
11	5.28.1	Providing M-30 grade concrete instead of M-25 grade BMC/RMC. Note : Cement content considered in M-30 is @ 340 kg/cum)		1,307	1,418.12	282.00		**3006.94**
12	5.29	Add/deduct for using extra/ less cement in the items of design mix over and above the specified cement content therein.		ADD 25 KG PER CUM OF CONCRETE				**TOTAL**
			QT	0.25	3006.9			751.73
13	5.25 PWD SOR	Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. Note For Item No. 5.25:- The quantity will be calculated by multiplying the depth measured from the subsoil water level up to the centre of gravity of the R.C.C. under ubsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reckoned correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under sub - soil water conditions.						
		PILES CONCRETE						**282.00**
		RAFT CONCRETE						**947.81**

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Name of Component :-					Civil Work			
		R.C.C.COLUMNS						
		BASEMENT FLOOR	C1	7.00	0.30	0.45	0.80	0.76
			C2	24.00	0.30	0.60	0.80	3.46
			C3	7.00	0.45	0.60	1.70	3.21
			C4	1.00	0.30	0.85	0.80	0.20
			C5	6.00	0.50	CIR	1.70	8.01
			C6	5.00	0.30	0.30	0.80	1.13
			C7	2.00	0.50	1.20	2.40	3.77
			C8	12.00	0.60	0.75	2.40	32.56
						TOTAL QUANTITY		**53.09**
		RETAINING WALLS		1.00	8.30	0.30	0.80	1.99
				1.00	23.30	0.30	0.80	5.59
				1.00	12.20	0.30	0.80	2.93
				1.00	6.80	0.30	0.80	1.63
				1.00	17.50	0.30	1.70	8.93
				2.00	22.40	0.30	0.90	12.10
				1.00	3.20	0.30	0.90	0.86
				1.00	8.20	0.30	0.90	2.21
				1.00	7.50	0.30	0.90	2.03
				1.00	20.20	0.30	0.90	5.45
				1.00	5.70	0.30	0.90	1.54
				1.00	39.20	0.30	1.70	19.99
				1.00	17.10	0.30	1.70	8.72
				1.00	17.20	0.30	1.70	8.77
				1.00	10.50	0.30	0.90	2.84
				1.00	16.00	0.30	0.50	2.40
				1.00	35.00	0.30	0.50	5.25
				1.00	39.00	0.30	0.50	5.85
								99.08
		TOTAL QUANTITY OF CONCRETE LAID UNDER WATER LEVEL						**1381.98**
		STEEL						
14	5.16 / page no. 68	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire up to floor two level including all wastage etc. complete.						
	5.16.6	Thermo-Mechanically Treated bars.(TMT)						

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Name of Component :-					Civil Work			
		TOTAL VOLUME OF CONCRETE		282.0	1418.1	1306.8		**3006.94**
		Qty as per I 4, 150Kg/m3	kg	1.0		150.0	3006.94	451040.60
						TOTAL QUANTITY		**454047.54**
15	5.20.7	Add extra for providing reinforcement above Floor two level for every additional floor or part there of.						
		EXTRA FOR BASEMENT (HT ABOVE 3.6)		282.00	1,418.12	1,307		3006.94
		Qty of steel =(8.2ht -3.6 floor ht x2) / 8.2 = 12% of 150 = 20kg/m3	KG		3,006.9	20.00		**60138.75**
		FORMWORK						
16	20.1 UADD P.No.215	Centering and shuttering including strutting, propping etc. and removal of form for :						
	20.1.1	Foundations, footings, bases of columns, etc. For mass concrete.						
		RAFT SIDES		1	8.3		0.6	4.98
				1	23.3		0.6	13.98
				1	12.2		0.6	7.32
				1	6.8		0.6	4.08
				1	17.5		0.6	10.50
				2	22.4		0.6	26.88
				1	3.2		0.6	1.92
				1	8.2		0.6	4.92
				1	7.5		0.6	4.50
				1	20.2		0.6	12.12
				1	5.7		0.6	3.42
				1	39.2		0.6	23.52
				1	17.1		0.6	10.26
				1	17.2		0.6	10.32
				1	10.5		0.6	6.30
				1	16		0.6	9.60
				1	35		0.6	21.00
				1	39		0.6	23.40
								199.02
		UGT + SUMPS			4	1.5	4.7	57.70
					4	2.5	4.7	71.10

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Name of Component :-					Civil Work			
					2	3	3.0	36.00
					2	4	3.0	44.00
					1	4	3.0	34.00
					1	4.75	3.0	39.25
								282.05
						TOTAL QUANTITY		**481.07**
17	20.1.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc						
		RET WALL BASEMENT	UNITS	NOS	L	B	H	**TOTAL = NOS X (L+B) X 2 X H**
		FOR RETAINING WALLS		1	8.3	0.3	3.5	60.20
				1	23.3	0.3	3.5	165.20
				1	12.2	0.3	3.5	87.50
				1	6.8	0.3	3.5	49.70
				1	17.5	0.3	4.4	156.64
				2	22.4	0.3	2.4	217.92
				1	3.2	0.3	2.4	16.80
				1	8.2	0.3	2.4	40.80
				1	7.5	0.3	2.4	37.44
				1	20.2	0.3	2.4	98.40
				1	5.7	0.3	2.4	28.80
				1	39.2	0.3	4.4	347.60
				1	17.1	0.3	4.4	153.12
				1	17.2	0.3	4.4	154.00
				1	10.5	0.3	2.4	51.84
			OAT	1	16	0.3	2	65.20
				1	35	0.3	2	141.20
				1	39	0.3	3.2	251.52
								2123.88
		GF		NOS	L	B	H	TOTAL = NOS X (L+B) X 2 X H
		RETAINING WALLS		1.0	8.3	0.3	3.7	63.64
				1.0	23.3	0.3	3.7	174.64
				1.0	12.2	0.3	3.7	92.50
				1.0	6.8	0.3	3.7	52.54
				1.0	17.5	0.3	3.7	131.72
				2.0	22.4	0.3	3.7	335.96
				1.0	3.2	0.3	3.7	23.90
				1.0	8.2	0.3	3.7	62.90

Name of Component :-					Civil Work			
				1.0	7.5	0.3	3.7	57.72
				1.0	20.2	0.3	3.7	151.70
				1.0	5.7	0.3	3.7	44.40
				1.0	39.2	0.3	3.7	292.30
				1.0	17.1	0.3	3.7	128.76
				1.0	17.2	0.3	3.7	129.50
				1.0	10.5	0.3	3.7	79.92
				1.0	16.0	0.3	3.7	120.62
				1.0	35.0	0.3	3.7	261.22
				1.0	39.0	0.3	3.7	290.82
								2496.76
						TOTAL QUANTITY		**4620.64**
18	20.1.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	TYPE	NOS	L	B	H	TOTAL = NOS X 2 X (L + B) X H
		BASEMENT COLUMN HEADS	C1	7	0.3	0.45	3.5	36.75
			C2	24	0.3	0.6	3.5	151.20
			C3	7	0.45	0.6	4.4	64.68
			C4	1	0.3	0.85	3.5	8.05
			C5	6	0.5	CIR	4.4	82.90
			C6	5	0.3	0.3	3.5	21.00
			C7	2	0.5	1.2	2.4	16.32
			C8	12	0.6	0.75	2.4	77.76
								458.66
		GROUND FLOOR	C1	22	0.3	0.45	3.8	125.40
			C2	5	0.3	0.6	3.8	34.20
			C2	14	0.3	0.6	3.8	95.76
			C3	14	0.45	0.6	3.8	111.72
			C4	1	0.3	0.85	3.8	8.74
			C5	6	0.5	CIR	3.8	71.59
			C7	2	0.5	1.2	3.8	25.84
			C8	12	0.6	0.75	3.8	123.12
								596.37
						TOTAL QUANTITY		**1055.03**
19	20.1.5	Lintels, beams, girders, bressumers and cantilevers.						
		FOR PL BEAM		BEAM BASE AREA				26.85
		BEAM SIDES	H	1.00	6.00		0.30	1.80

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Name of Component :-					Civil Work			
				1.00	11.00		0.30	3.30
				1.00	4.50		0.30	1.35
				1.00	12.20		0.30	3.66
			V	1.00	27.80		0.30	8.34
				1.00	28.00		0.30	8.40
								53.70
		BASEMENT BEAM BASE AREA						138.75
		BASEMENT BEAM SIDES	SQM	NOS	L	SIDES	H	TOTAL AREA = NOS X L X SIDES X HT
		BACK STAGE	H	1.00	8.50	2.00	0.60	10.20
				1.00	9.60	2.00	0.60	11.52
				1.00	2.00	2.00	0.60	2.40
				1.00	10.20	2.00	0.60	12.24
				1.00	5.00	2.00	0.60	6.00
				1.00	8.60	2.00	0.60	10.32
				1.00	10.00	2.00	0.60	12.00
				1.00	4.00	2.00	0.60	4.80
				1.00	7.60	2.00	0.60	9.12
				1.00	3.20	2.00	0.60	3.84
				1.00	12.20	2.00	0.60	14.64
				1.00	6.00	2.00	0.60	7.20
			V	1.00	23.20	2.00	0.60	27.84
				1.00	2.80	2.00	0.60	3.36
				1.00	11.20	2.00	0.60	13.44
				1.00	3.80	2.00	0.60	4.56
				1.00	1.70	2.00	0.60	2.04
				1.00	2.60	2.00	0.60	3.12
				1.00	24.70	2.00	0.60	29.64
				1.00	25.10	2.00	0.60	30.12
				1.00	3.20	2.00	0.60	3.84
				1.00	1.60	2.00	0.60	1.92
				1.00	8.50	2.00	0.60	10.20
		AUDI	H	1.00	21.00	2.00	0.60	25.20
				1.00	25.50	2.00	0.60	30.60
				2.00	3.50	2.00	0.60	8.40
				1.00	3.20	2.00	0.60	3.84
				1.00	3.60	2.00	0.60	4.32
				1.00	3.10	2.00	0.60	3.72
				2.00	5.20	2.00	0.60	12.48
				2.00	13.70	2.00	0.60	32.88
				1.00	17.40	2.00	0.60	20.88
			V	1.00	3.20	2.00	0.60	3.84
				5.00	3.10	2.00	0.60	18.60
				1.00	6.10	2.00	0.60	7.32
				1.00	4.70	2.00	0.60	5.64
				1.00	3.60	2.00	0.60	4.32
				1.00	4.20	2.00	0.60	5.04
				1.00	4.00	2.00	0.60	4.80

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Name of Component :-					Civil Work			
				1.00	4.50	2.00	0.60	5.40
				1.00	3.20	2.00	0.60	3.84
				6.00	1.60	2.00	0.60	11.52
			OAT	1.00	16.00	2.00	0.60	19.20
				1.00	35.00	2.00	0.60	42.00
				1.00	39.00	2.00	0.60	46.80
								693.75
		AREA UNDER ROOF BEAMS						348.72
		BEAM SIDES						
		BACK STAGE	H	1.00	8.50	2.00	0.60	10.20
				2.00	9.60	2.00	0.60	23.04
				1.00	2.00	2.00	0.60	2.40
				1.00	10.20	2.00	0.60	12.24
				1.00	5.00	2.00	0.60	6.00
				1.00	8.60	2.00	0.60	10.32
				1.00	10.00	2.00	0.60	12.00
				1.00	4.00	2.00	0.60	4.80
				1.00	7.60	2.00	0.60	9.12
				1.00	3.20	2.00	0.60	3.84
				1.00	12.20	2.00	0.60	14.64
				1.00	6.00	2.00	0.60	7.20
			V	1.00	23.20	2.00	0.60	27.84
				1.00	2.80	2.00	0.60	3.36
				1.00	11.20	2.00	0.60	13.44
				1.00	3.80	2.00	0.60	4.56
				1.00	1.70	2.00	0.60	2.04
				1.00	2.60	2.00	0.60	3.12
				1.00	24.70	2.00	0.60	29.64
				1.00	25.10	2.00	0.60	30.12
				1.00	3.20	2.00	0.60	3.84
				1.00	1.60	2.00	0.60	1.92
				1.00	8.50	2.00	0.60	10.20
		AUDI	H	1.00	21.00	2.00	1.20	50.40
				1.00	25.50	2.00	1.20	61.20
				2.00	3.50	2.00	1.20	16.80
				1.00	3.20	2.00	1.20	7.68
				1.00	3.60	2.00	1.20	8.64
				1.00	3.10	2.00	1.20	7.44
				2.00	5.20	2.00	1.20	24.96
				2.00	13.70	2.00	1.20	65.76
				1.00	17.40	2.00	1.20	41.76
				1.00	37.40	2.00	1.20	89.76
			V	1.00	12.20	2.00	1.20	29.28
				1.00	22.00	2.00	1.20	52.80
				1.00	21.70	2.00	1.20	52.08
				1.00	23.70	2.00	1.20	56.88
				1.00	26.50	2.00	1.20	63.60
				1.00	30.90	2.00	1.20	74.16
				1.00	23.20	2.00	1.20	55.68

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Name of Component :-					Civil Work			
				1.00	37.80	2.00	1.20	90.72
		PREFUNCTION	H	1.00	3.80	2.00	0.60	4.56
				1.00	20.50	2.00	0.60	24.60
				1.00	5.80	2.00	0.60	6.96
				1.00	7.20	2.00	0.60	8.64
				1.00	11.00	2.00	1.20	26.40
				1.00	16.20	2.00	1.20	38.88
				1.00	17.00	2.00	1.20	40.80
				2.00	12.50	2.00	0.60	30.00
				1.00	13.00	2.00	0.60	15.60
			V	1.00	27.20	2.00	0.60	32.64
				1.00	4.50	2.00	0.60	5.40
				1.00	25.50	2.00	0.60	30.60
				1.00	28.60	2.00	0.60	34.32
								1743.60
		LINTELS	SQM	NOS	L	W	HT	TOTAL AREA = NOS * L * (W + 2*H)
			D1	1.00	3.20	0.20	0.20	1.92
			D2	1.00	2.20	0.20	0.20	8.29
			D3	6.00	2.00	0.20	0.20	7.20
			D4	10.00	1.70	0.20	0.20	10.20
			D5	7.00	1.40	0.20	0.20	5.88
			D6	10.00	1.10	0.20	0.20	6.60
			D7	13.00	0.95	0.20	0.20	7.41
			W1	1.00	2.20	0.20	0.20	1.32
			W2	12.00	1.40	0.20	0.20	10.08
			W3	2.00	1.10	0.20	0.20	1.32
			V1	2.00	1.40	0.20	0.20	1.68
			V2	6.00	1.10	0.20	0.20	3.96
			V3	4.00	0.80	0.20	0.20	1.92
								67.78
		TOTAL SHUTTERING BEAMS AND LINTELS						**2558.83**
20	20.1.3	Suspended floors, roofs, landings, balconies and access platform.						
		GF INSIDE ROOMS AREA WITH TOI						1269.50
		FF INSIDE ROOMS AREA WITH TOI						274.57
		TOTAL SLAB SHUTTERING				**G. TOTAL**		**1544.07**

Name of Component :-					Civil Work			
21	20.1.7	Stairs, (excluding landings) except spira staircases.						
		KERB STONE	CUM	CUM	L	W	H	TOTAL
				2.0	41.0	0.2	0.3	24.68
				2.0	108.0	0.2	0.3	64.88
				1.0	70.0	0.2	0.3	21.04
				1.0	141.0	0.2	0.3	42.34
				1.0	72.0	0.2	0.3	21.64
		STEPS		6.0	2.5	0.2		2.25
				8.0	1.7	0.2		2.04
				8.0	2.2	0.2		2.64
				8.0	1.5	0.2		1.80
				6.0	1.2	0.2		1.08
				14.0	2.7	0.2		5.67
				6.0	2.0	0.2		1.80
		STAIRS	ST1	24.0	1.5	0.2		5.40
		RAMPUP		64.0	1.5	0.2		14.40
						G. TOTAL		**211.64**
22	20.1.21	Weather shades, Chajjas Corbels etc incl edges	TYPE	NOS	L	**W**	**H**	**AREA = (NOS*L*(B+H)) + (NOS*W*(L+2*HT))**
		CHAJJA BASEMENT	W1	1.00	2.20	0.60	0.10	2.98
			W2	12.00	1.40	0.60	0.10	23.28
			W3	2.00	1.10	0.60	0.10	3.10
			ENTRY	1.00	10.50	0.60	0.10	13.77
		TOTAL CHAJJA SHUTTERING				**G. TOTAL**		**43.13**
23	2.25 UADD P.No-24	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum					
		2.25.1 All kinds of soil.						
		SOIL FILLED ON ROOF				1579.7	0.60	947.81
		MOUND	0.5	1.0	10.0	29.0	3.60	522.00
			0.5	0.5	18.0	9.0	4.00	162.00
						TOTAL QUANTITY		**1631.81**

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Name of Component :-					Civil Work			
24	1 .1 UADD	Loading and unloading of stone boulder / stone aggregates / sand / kanker / moorum. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip)						
	1 .1	Transportation of metal 20 mm						
		TOTAL SOIL						6590.92
		DEDUCT SOIL USED FOR FILLING						-1631.81
		REMAINING SOIL						4959.11
		ADDING 25% FOR VOIDS						1239.78
								6198.88
		taking 50% as SOIL						**3099.44**
		TAKING 50% AS ROCK						**3099.44**
	1.2	Transportation rate of different other material in comparison with 20 mm metal. (i.e. @ Rs. 48.81 Per Cum)				Rate as % of metal		
	e	Excavated Earth			3099.4	25% EXTRA		3874.30
	f	Excavated ordinary rock measured			3099.4	100% EXTRA		6198.88
			CUM					**10073.19**
25	2.27.3	Moorum/Hard copra						
		BUILTUP AREA OF OAT				226.3	0.40	**90.52**
26	2 .27.1 UADD	Crusher Stone Dust						
		BUILTUP AREA OF BASEMENT				1579.7	0.20	315.94
								315.94

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Name of Component :-					Civil Work			
27	2.28.2 PWD SOR	Supplying and filling in plinth with soil (other than B.C. soil) having MDD not less than 1.85 t/M3 under floors including watering, ramming, compacting (minimum compaction 95% of MDD), in layers not exceeding 15 cms in depth and dressing complete	BUILTUP AREA OF OAT			226.3	0.05	**11.31**
28	2 .32 PWD SOR	Pre construction antitermite treatment to the building underconstruction by providing 1: Treating the bottom and the sides (up to 30cm hight of the excavated trench ©litter per sqm of the surface area. Staa=e 2: After masonry/RCC work, the backfill in the immdiate contact with the foundation structure treatment .5 litter per sqm. of the vertical surface of the substructure for each side. Staa=e 3: surface treatment by spreading emulsion over the plinth area before laying the base concrete under floors ©.0 litres/Sqm. Staa=e 4: Pumping the emulsion in plinth masonry on filling side at floor junction 5litres/Sqm.						

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Name of Component :-					Civil Work			
		Stage 5: Pumping the emulsion from outer side of the plinth below ground alround the masonry <©.0 litres/Sqm as per I.S. 8944 Emulsion. (Ichlo-rpyrifos: 19 water with five years serv-ice guarantee (Measurements to be taken for plinth area)	SQM					
		BUILTUP AREA OF GROUND FLOOR	FLOOR + ROOF		2.0	1269.5		2539.00
		RETAINING WALL SHUTTERING	ONE SIDE		0.5	4620.6		2310.32
								4849.32
		BRICK WORK						
29	6.31 UADD	Providing and laying autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in super structure above plinth level up to floor II level in cement mortar 1:4 (1 cement : 4 coarse sand) The rate includes providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of masonry work.scaffolding						
		BASEMENT 1 BRICK THK		**NOS**	**L**	**W**	**H**	**TOTAL**
			BACK	1.00	8.50	0.30	5.30	13.52
				1.00	6.00	0.20	5.30	6.36
				1.00	3.00	0.20	5.30	3.18
				1.00	2.80	0.20	5.30	2.97
				1.00	1.80	0.20	5.30	1.91
				1.00	10.10	0.30	5.30	16.06
				1.00	4.40	0.20	5.30	4.66
				1.00	13.20	0.30	5.30	20.99
				1.00	3.80	0.30	5.30	6.04
				1.00	2.10	0.20	5.30	2.23
				2.00	3.40	0.20	5.30	7.21
				1.00	5.20	0.20	5.30	5.51
				1.00	6.40	0.30	5.30	10.18
				1.00	17.40	0.20	5.30	18.44

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Name of Component :-					Civil Work			
				2.00	3.40	0.20	5.30	7.21
				1.00	5.20	0.20	5.30	5.51
				1.00	6.30	0.30	5.30	10.02
				1.00	7.60	0.20	5.30	8.06
				1.00	5.70	0.20	5.30	6.04
				1.00	3.20	0.30	5.30	5.09
				1.00	1.90	0.20	5.30	2.01
			STG	2.00	4.00	0.20	5.90	9.44
				1.00	13.80	0.30	5.90	24.43
				1.00	3.40	0.30	5.90	6.02
				1.00	2.10	0.20	5.90	2.48
				2.00	5.60	0.30	5.90	19.82
				2.00	15.40	0.30	5.90	54.52
				2.00	3.60	0.30	5.90	12.74
				1.00	38.50	0.30	5.90	68.15
			FR	1.00	4.20	0.20	3.70	3.11
				1.00	7.80	0.20	3.70	5.77
				1.00	2.80	0.20	3.70	2.07
				1.00	28.00	0.30	3.70	31.08
				1.00	7.90	0.20	3.70	5.85
				2.00	1.80	0.20	3.70	2.66
				3.00	5.40	0.20	3.70	11.99
				1.00	21.00	0.20	3.70	15.54
								438.85
		FIRST FLOOR 1 BRK THK						
			BACK	2.00	8.00	0.20	4.50	14.40
				1.00	5.10	0.20	4.50	4.59
				1.00	2.50	0.20	4.50	2.25
				1.00	11.00	0.20	4.50	9.90
				1.00	4.50	0.20	4.50	4.05
				1.00	3.30	0.30	4.50	4.46
				1.00	2.10	0.20	4.50	1.89
				1.00	3.40	0.20	4.50	3.06
				1.00	5.30	0.20	4.50	4.77
				1.00	6.40	0.30	4.50	8.64
				1.00	7.60	0.30	4.50	10.26
				1.00	7.70	0.20	4.50	6.93
				1.00	1.80	0.20	4.50	1.62
				1.00	2.80	0.30	4.50	3.78
				1.00	3.30	0.20	4.50	2.97
			STG	1.00	21.00	0.30	4.50	28.35
				2.00	5.50	0.30	4.50	14.85
				2.00	1.20	0.30	4.50	3.24
				2.00	6.10	0.20	4.50	10.98
				1.00	16.80	0.20	4.50	15.12
				1.00	13.70	0.30	4.50	18.50
				1.00	4.60	0.20	4.50	4.14
				1.00	14.20	0.20	4.50	12.78
				1.00	10.80	0.20	4.50	9.72
				1.00	2.00	0.20	4.50	1.80

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Name of Component :-					Civil Work			
				1.00	9.40	0.20	4.50	8.46
				1.00	3.00	0.20	4.50	2.70
				1.00	10.30	0.20	4.50	9.27
				1.00	1.50	0.20	4.50	1.35
				1.00	2.30	0.20	4.50	2.07
				1.00	6.50	0.20	4.50	5.85
				2.00	3.30	0.20	4.50	5.94
				1.00	6.30	0.20	4.50	5.67
				2.00	8.40	0.30	4.50	22.68
				1.00	21.00	0.20	1.40	5.88
			FR	1.00	5.20	0.20	4.50	4.68
				1.00	15.00	0.20	4.50	13.50
				1.00	3.00	0.20	4.50	2.70
				1.00	2.00	0.20	4.50	1.80
				2.00	3.50	0.20	4.50	6.30
				1.00	5.40	0.20	4.50	4.86
				2.00	3.60	0.20	4.50	6.48
								313.23
		DEDUCT OPENINGS	D1	1.00	3.00	0.20	2.50	-1.50
			D2	1.00	2.00	0.20	2.50	-1.00
			D3	6.00	1.80	0.20	2.50	-5.40
			D4	10.00	1.50	0.20	2.50	-7.50
			D5	7.00	1.20	0.20	2.50	-4.20
			D6	10.00	0.90	0.20	2.50	-4.50
			D7	13.00	0.75	0.20	2.10	-4.10
			W1	1.00	2.00	0.20	1.60	-0.64
			W2	12.00	1.20	0.20	1.60	-4.61
			W3	2.00	0.90	0.20	1.60	-0.58
			V1	2.00	1.20	0.20	0.45	-0.22
			V2	6.00	0.90	0.20	0.45	-0.49
			V3	4.00	0.60	0.20	0.45	-0.22
			O	5.00	1.10	0.20	2.50	-2.75
						TOTAL QUANTITY		**-37.69**
		Half brick masonry						
		BASEMENT		1.00	8.40	0.10	5.30	4.45
				1.00	23.00	0.10	5.30	12.19
				1.00	12.20	0.10	5.30	6.47
				1.00	6.80	0.10	5.30	3.60
				1.00	1.40	0.10	5.30	0.74
				1.00	3.00	0.10	5.30	1.59
				1.00	1.80	0.10	5.30	0.95
				1.00	6.00	0.10	5.30	3.18
				1.00	51.00	0.10	5.30	27.03
				1.00	5.30	0.10	5.30	2.81
				1.00	21.00	0.10	5.30	11.13
				1.00	3.80	0.10	5.30	2.01
				6.00	5.20	0.10	5.30	16.54
				2.00	4.80	0.10	5.30	5.09
				1.00	3.40	0.10	5.30	1.80

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Name of Component :-					Civil Work			
				1.00	2.00	0.10	5.30	1.06
				1.00	5.80	0.10	5.30	3.07
				1.00	2.80	0.10	5.30	1.48
				1.00	1.80	0.10	5.30	0.95
								106.16
		GF		1.00	1.50	0.10	4.50	0.68
				1.00	3.40	0.10	4.50	1.53
								2.21
		TOTAL BRICKWORK				**G. TOTAL**		**822.76**
30	6.32 UADD	Extra for AAC block masonry in superstructure above floor II level for every floor or part there of.		1 BRK THK	1/2 BRK THK			
				438.85	106.16	1.00		545.01
				313.23	2.21	2.00		630.87
								1175.88
31	13.3 UADD	20 mm cement plaster of mix						
	13.3.3	1:6 (1 cement : 6 sand)	**SQM**	**NOS**	**L**	**SIDES**	**H**	**TOTAL**
		RET WALLS		HALF OF RET WALL SHUTTERING		4,620.64	0.5	**2310.32**
		WALLS ONE SIDE						
		BASEMENT		1.00	21.00	1.00	3.70	77.70
				1.00	9.60	1.00	6.10	58.56
				1.00	15.40	1.00	6.10	93.94
				1.00	5.60	1.00	6.10	34.16
				1.00	7.60	1.00	6.10	46.36
				2.00	1.60	1.00	6.10	19.52
				1.00	1.20	1.00	6.10	7.32
				1.00	1.60	1.00	6.10	9.76
				1.00	4.00	1.00	6.10	24.40
				2.00	2.00	1.00	6.10	24.40
				2.00	2.20	1.00	6.10	26.84
				2.00	3.60	1.00	3.70	26.64
				2.00	1.50	1.00	3.70	11.10
								460.70
		WALLS		1.00	6.80	1.00	4.50	30.60
				2.00	8.10	1.00	4.50	72.90
				1.00	2.20	2.00	1.20	5.28

Name of Component :-					Civil Work			
				1.00	13.50	1.00	4.50	60.75
				1.00	21.00	1.00	4.50	94.50
				1.00	15.00	1.00	4.50	67.50
				1.00	1.50	1.00	4.50	6.75
				1.00	6.10	1.00	4.50	27.45
				1.00	14.40	1.00	4.50	64.80
								430.53
		WALLS		1.00	10.20	1.00	3.20	32.64
				1.00	15.40	1.00	3.20	49.28
				1.00	4.20	1.00	3.20	13.44
				1.00	6.80	1.00	3.20	21.76
				1.00	8.40	1.00	3.20	26.88
				1.00	23.00	1.00	3.20	73.60
				1.00	12.00	1.00	3.20	38.40
								256.00
.		ADD EXPOSED COLS AND FINS PLASTER	CIR	7.00	0.20		10.20	**89.68**
		ADD CHAJJA TOP	TYPE	NOS	L	B	HT	TOTAL = NOS * (L X B + B*H*2SIDES)
		CHAJJA BASEMENT	W1	1.00	2.20	0.60	0.10	1.44
			W2	12.00	1.40	0.60	0.10	11.52
			W3	2.00	1.10	0.60	0.10	1.56
			ENTRY	1.00	10.50	0.60	0.10	6.42
								20.94
				TOTAL 20 MM PLASTER				**3568.17**
32	13.1 UADD	12 mm cement plaster of mix :						
	13.1.3	1:6 (1 cement: 6 fine sand)	SQM	NOS	L	SIDES	HT	TOTAL
		BASEMENT ALL WALLS BOTH SIDES		1.00	8.50	2.00	5.30	90.10
				1.00	6.00	2.00	5.30	63.60
				1.00	3.00	2.00	5.30	31.80
				1.00	2.80	2.00	5.30	29.68
				1.00	1.80	2.00	5.30	19.08
				1.00	10.10	2.00	5.30	107.06
				1.00	4.40	2.00	5.30	46.64
				1.00	13.20	2.00	5.30	139.92
				1.00	3.80	2.00	5.30	40.28
				1.00	2.10	2.00	5.30	22.26
				2.00	3.40	2.00	5.30	72.08

Name of Component :-					Civil Work			
				1.00	5.20	2.00	5.30	55.12
				1.00	6.40	2.00	5.30	67.84
				1.00	17.40	2.00	5.30	184.44
				2.00	3.40	2.00	5.30	72.08
				1.00	5.20	2.00	5.30	55.12
				1.00	6.30	2.00	5.30	66.78
				1.00	7.60	2.00	5.30	80.56
				1.00	5.70	2.00	5.30	60.42
				1.00	3.20	2.00	5.30	33.92
				1.00	1.90	2.00	5.30	20.14
			STG	2.00	4.00	2.00	5.90	94.40
				1.00	13.80	2.00	5.90	162.84
				1.00	3.40	2.00	5.90	40.12
				1.00	2.10	2.00	5.90	24.78
				2.00	5.60	2.00	5.90	132.16
				2.00	15.40	2.00	5.90	363.44
				2.00	3.60	2.00	5.90	84.96
				1.00	38.50	2.00	5.90	454.30
			FR	1.00	4.20	2.00	3.70	31.08
				1.00	7.80	2.00	3.70	57.72
				1.00	2.80	2.00	3.70	20.72
				1.00	28.00	2.00	3.70	207.20
				1.00	7.90	2.00	3.70	58.46
				2.00	1.80	2.00	3.70	26.64
				3.00	5.40	2.00	3.70	119.88
				1.00	21.00	2.00	3.70	155.40
		GF ALL WALLS BOTH SIDES	BACK	2.00	8.00	2.00	4.50	144.00
				1.00	5.10	2.00	4.50	45.90
				1.00	2.50	2.00	4.50	22.50
				1.00	11.00	2.00	4.50	99.00
				1.00	4.50	2.00	4.50	40.50
				1.00	3.30	2.00	4.50	29.70
				1.00	2.10	2.00	4.50	18.90
				1.00	3.40	2.00	4.50	30.60
				1.00	5.30	2.00	4.50	47.70
				1.00	6.40	2.00	4.50	57.60
				1.00	7.60	2.00	4.50	68.40
				1.00	7.70	2.00	4.50	69.30
				1.00	1.80	2.00	4.50	16.20
				1.00	2.80	2.00	4.50	25.20
				1.00	3.30	2.00	4.50	29.70
			STG	1.00	21.00	2.00	4.50	189.00
				2.00	5.50	2.00	4.50	99.00
				2.00	1.20	2.00	4.50	21.60
				2.00	6.10	2.00	4.50	109.80
				1.00	16.80	2.00	4.50	151.20
				1.00	13.70	2.00	4.50	123.30
				1.00	4.60	2.00	4.50	41.40
				1.00	14.20	2.00	4.50	127.80

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Name of Component :-					Civil Work			
				1.00	10.80	2.00	4.50	97.20
				1.00	2.00	2.00	4.50	18.00
				1.00	9.40	2.00	4.50	84.60
				1.00	3.00	2.00	4.50	27.00
				1.00	10.30	2.00	4.50	92.70
				1.00	1.50	2.00	4.50	13.50
				1.00	2.30	2.00	4.50	20.70
				1.00	6.50	2.00	4.50	58.50
				2.00	3.30	2.00	4.50	59.40
				1.00	6.30	2.00	4.50	56.70
				2.00	8.40	2.00	4.50	151.20
				1.00	21.00	2.00	1.40	58.80
			FR	1.00	5.20	2.00	4.50	46.80
				1.00	15.00	2.00	4.50	135.00
				1.00	3.00	2.00	4.50	27.00
				1.00	2.00	2.00	4.50	18.00
				2.00	3.50	2.00	4.50	63.00
				1.00	5.40	2.00	4.50	48.60
				2.00	3.60	2.00	4.50	64.80
		DEDUCT DOOR WINDOWS PLASTER	D1	-1.00	3.00	1.00	2.50	-7.50
			D2	-1.00	2.00	1.00	2.50	-5.00
			D3	-6.00	1.80	1.00	2.50	-27.00
			D4	-10.00	1.50	1.00	2.50	-37.50
			D5	-7.00	1.20	1.00	2.50	-21.00
			D6	-10.00	0.90	1.00	2.50	-22.50
			D7	-13.00	0.75	1.00	2.10	-20.48
			W1	-1.00	2.00	1.00	1.60	-3.20
			W2	-12.00	1.20	1.00	1.60	-23.04
			W3	-2.00	0.90	1.00	1.60	-2.88
			V1	-2.00	1.20	1.00	0.45	-1.08
			V2	-6.00	0.90	1.00	0.45	-2.43
			V3	-4.00	0.60	1.00	0.45	-1.08
			O	-5.00	1.10	1.00	2.50	-13.75
		DEDUCT EXTERNAL PLASTER ON WALLS	BASE	460.70	GF	430.53	256.00	**-1147.23**
		TOTAL INTERNAL PLASTER				**G. TOTAL**		**4807.16**
33	13.2.1	1:4 on half brk thk walls						
		12MM PLASTER 1:4						
		BASEMENT		1.00	8.40	2.00	5.30	89.04
				1.00	23.00	2.00	5.30	243.80
				1.00	12.20	2.00	5.30	129.32
				1.00	6.80	2.00	5.30	72.08
				1.00	1.40	2.00	5.30	14.84
				1.00	3.00	2.00	5.30	31.80

Name of Component :-					Civil Work			
				1.00	1.80	2.00	5.30	19.08
				1.00	6.00	2.00	5.30	63.60
				1.00	51.00	2.00	5.30	540.60
				1.00	5.30	2.00	5.30	56.18
				1.00	21.00	2.00	5.30	222.60
				1.00	3.80	2.00	5.30	40.28
				6.00	5.20	2.00	5.30	330.72
				2.00	4.80	2.00	5.30	101.76
				1.00	3.40	2.00	5.30	36.04
				1.00	2.00	2.00	5.30	21.20
				1.00	5.80	2.00	5.30	61.48
				1.00	2.80	2.00	5.30	29.68
				1.00	1.80	2.00	5.30	19.08
		GF		1.00	1.50	2.00	4.50	13.50
				1.00	3.40	0.10	4.50	1.53
						TOTAL QUANTITY		**2138.21**
34	13.17 UADD	6 mm cement plaster 1:3 (1 cement: 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.						
		GF BUILTUP AREA						1579.69
		FF BUILTUP AREA						439.96
		TOTAL CEILIN PLASTER						**2019.65**
35	5.27 UADD	Providing for plaster drip course/ groove in plastered surfuce or moulding to R.C.C. projections.	TYPE	NOS	L	B		TOTAL LENGTH = NOS * (L + 2 *B)
			W1	1	2	1		3.40
			W2	12	1	1		31.20
			W3	2	1	1		4.60
			ENTRY	1	11	1		11.70
			TOTAL GROOVES AND DRIP COURSE					**50.90**
		WATERPROOFING						
	18.14 UADD	Grading roof for water proofing treatment with (upto two floor level)			1,579.69	0.10		**157.97**

Name of Component :-					Civil Work			
	18.17 UADD	Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation						
		FLOOR AREA						1579.69
		ROOF AREA						1269.50
		RETAINING WALLS	SHUTTERING ONE SIDE			4,620.6	0.50	2310.32
								5159.51

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Name of Component :-					Civil Work			
	18.5 UADD	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying a) First layer of slurry of cement @ 0.488 kglsqm mixed with water proofing cement compound @ 0.253 kglsqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kglsqm mixed with water proofing cement compound @ 0.126 kglsqm This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonary with polymer mixes slurry.	TOILET AREA			83.93	4.48	**88.41**

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Name of Component :-					Civil Work			
	22.22 CPWD	Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc. at the time of transporting of concrete into the drum of the ready-mix truck, using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010						
		VOLUME OF CONCRETE			282.00	1,418	1,307	3006.94
		WT OF CEMENT	KG		500 KG / CUM	3,007		1503468.67
		WT OF ADMIXTURE @ 0.8% PER KG CEMENT	KG		0.01	1,503,469		**12027.75**

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Name of Component :-					Civil Work			
	22.23 CPWD	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048						
	22.23.2	For horizontal surface one coat @1.10 kg per sqm.						
		BUILTUP AREA OF G.F.						**1269.50**

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Name of Component :-					Civil Work			
	22.23 A CPWD	Providing & Applying polymer modified, flexible cementatious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35 kg /10 sqm. one coat of self priming of cementatious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementatious waterproofing polymer (dilution with water in the ratio of 3:1) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge						
		SAME AS POSITIVE SIDE WATERPROOFING AREA						**5159.51**

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Name of Component :-					Civil Work			
	22.26 CPWD	Providing and applying of swellable type water stop tape, 19mm x 25mm thick in linear meter (expansive nature) for construction joints treatment of RCC structure, such as raft slab, retaining walls, water storage tank and at the junctions of raft slab with the retaining walls etc.. After cleaning the surface, one coat of required primer for swellable water stop tape shall be applied throughout the length of the joint @3.78 litre per 240 running meter. Over the primed surface swellable type water stop tape shall be placed. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage.						
		FIXING WATER STOPS HORIZONTALLY						
		RETAINING WALL LENGTH	3	1	8.3			24.90
			3	1	23.3			69.90
			3	1	12.2			36.60
			3	1	6.8			20.40
			3	1	17.5			52.50
			3	2	22.4			134.40
			3	1	3.2			9.60
			3	1	8.2			24.60
			3	1	7.5			22.50
			3	1	20.2			60.60
			3	1	5.7			17.10
			3	1	39.2			117.60
			3	1	17.1			51.30
			3	1	17.2			51.60

Name of Component :-					Civil Work			
			3	1	10.5			31.50
			3	1	16			48.00
			3	1	35			105.00
			3	1	39			117.00
		TOTAL LENGTH OF RETAINING WALL			309.3			
		NO OF JOINTS			11			
		FIXING WATER STOPS VERTICALLY		11	7.2			79.20
								1074.30
		Sub Engineer			Executive Engineer			
		J.S.C.L., Jabalpur			J.S.C.L., Jabalpur			

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			FORMAT - F	1	A

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-	1			
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDIN			
S.No. of Component :-	b			
Name of Component :-	Interior Work			

Abstract Of Cost

					All Amount in Rs.	
S.N.	**SOR Item NO.**	**Description Of Item**	**Unit**	**Quantity**	**Rate**	**Amount**
1	2	3	4	5	6	7
		SOR ITEMS				
		DOOR WINDOWS AND HARDWARE				
1.00	8.2 MPP WD	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:				
		(A) Structural analysis and design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation and drainage and protection against fire hazard including:				

Name of Component :-			Interior Work			
		(B) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.				-
		(C) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment , including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design,				-
		(D) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.				-

Name of Component :-			Interior Work			
		(E) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, TandP, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the				-
		individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineerin- Charge.	SQM	87.12	2674	232,959

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Name of Component :-			Interior Work			
2	9.121 UADD	Providing and fixing of Fiber Glass Reinforced plastic (FRP) Door Frames of three legged of cross-section 90mm x 45mm having single rebate of 32mm x 15mm to receive shutter of 30mm thickness .The laminate doorframe molded with fire resistant grade unsaturated polyester resin and chopped mat .Doorframe laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiberglass from all sides. M.S. stay shall be provided at the bottom to steady the frame	MT	393.55	524	206,220
3	9.122	Providing and fixing to existing door frames.				
	9.122.2 UADD	30mm thick fiberglass reinforced plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 : 2000, complete as per direction of Engineer-in-charge	SQM	140.975	3096	436,459
						-
4	9.126 UADD	Providing and fixing 12mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick.				-
	9.126.1	Marine plywood of lamination / painting quality and conforming to IS: 710	SQM	20.48	1448	29,648
	9.126.2	Fire retardant plywood of lamination / painting quality conforming to IS: 5509.	SQM	120.5	1362	164,121
						-

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Name of Component :-			Interior Work			
5	9.77 UADD PG.100	Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	Nos	48.00	371	17,808
6	9.74 UADD P. No.100	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				-
	9.74.1	250x10 mm	Nos	66.00	245	16,170
7	9.81 UADD P. No.100	Providing and fixing bright finished brass handles with screws etc. complete :				-
	9.66.1	125 mm	Nos	132.00	153	20,196
8	9.82 UADD	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	Nos	66.00	124	8,184
						-
						-
9	17.4 UADD	Providing and fixing double action hydraulic floor spring of approved brandand manufacture IS : 6315 marked,for doors including cost ofcutting floors asrequired, embedding infloors and cover plateswith brass pivot and singlepiece M.S.sheet outer box with slide plate etc. complete as perthedirection of Engineer-in-charge.				-
	17.4.2	With brass cover plate	each	66.00	2171	143,286
						-

Name of Component :-			Interior Work			
10	17.1 UADD	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Zsections andothersections of approved make conforming to IS: 733 and IS : 1285,fixed with rawl plugs and screws orwith fixing clips, orwith expansion hold fasteners including necessary filling upof gaps atjunctions, attop, bottom and sideswith required PVC/neoprene felt 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 steels crews, all completeas per architectural drawings and thedirections of Engineer-in-charge.(Galzing and paneling to be paid for separately) :				
	17.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).				
	17.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	KG	350.64	396	138,853
11	17.3 UADD	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprenegasket 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):				
	17.3.3	With float glass panes of 8 mm thickness	Sqm	38.96	1204	46,908

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Name of Component :-			Interior Work			
12	21.17 MPP WD SOR	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws OOmm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	KG	389.60	410	159,736
		STEEL WORK				
13	10.25 UADD	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required				
	10.25.1	In stringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.	KG	8000.00	63	504,000
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	kg	8000.00	67	536,000
14	10.25 MPP WD	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	KG	1295.28	794	1,028,129

Name of Component :-			Interior Work			
15	10.23 MPP WD	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.				
	10.23.3	G.I. pipes.	KG	494.48	129	63,566
						-
16	10.3 UADD	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers,handles, including applying a priming coat of approved steel primer.	SQM	69.12	3356	231,967
						-
17	10.6 UADD	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to I.S. 4454- part-1 and M.S. top cover of required thickness for rolling shutters.				
	10.6.1	80x1.25mm M.S. laths with 1.25 mm thick top cover.	sqm	25.20	1919	48,359
	10.7	Providing and fixing ball bearing for rolling shutters.	each	2.00	595	1,190
	10.8	Extra for providing suitable mechanical device chain and crank operation for operating rolling shutters.				
	10.8.2	Exceeding 16.80 sqm in area.	sqm	25.20	672	16,934
	10.9	Extra for providing grilled rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in- charge, (area of grill to be measured).	sqm	7.00	268	1,876

Name of Component :-			Interior Work			
18	10.2 uadd	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	4700.40	62	291,425
		FLOORING AND DADO				
19	11.3 UADD	Cement concrete flooring M-15 (nominal mix) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.				
	11.3.1	40 mm thick with 20mm maximum size of stone aggregate.	Sqm	595.65	236	140,574
20	11.34 CPWD	38 mm thick wood block flooring of first class teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete	SQM	409.46	7266	2,975,106
21	11. 29 MPP WD	Providing and laying gang saw cut, 18 mm thick mirror polished and pre moulded (wherever required) and pre polished machine cut Granite stone of required size and shape of approved shade, colour and texture in flooring laid over 20 mm thick base of cement mortar 1:4 (1 cement : 4 sand) including grouting of joints with white cement mixed with matching pigments, epoxy touchups etc. complete as per instructions of Engineer In Charge.				
	11.29.2	all shades other than black				
	11.29.2.2	Area of Slab more than 0.5 mts	sqm	207.57	3695	766,971
						-

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Name of Component :-			Interior Work			
22	11.22 MPP WD	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement: 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. samples approved by Engineer-in-charge.				-
	11.22.2.1	Granite Fine Grained dark black/dark red/White with self design/pattern/ crystal of other colours or glitters.	sqm	31.16	2356	73,413
						-
23.00	8.50.U ADD	Extra for providing opening of required size & shape forwash basins/ kitchensink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holesfor pillartaps etc. including rubbing and polishing of cute dges etc. complete.	each	8.00	199	1,592
						-
24.00	11.33 MPP WD	Pre polished Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.	SQM	422.71	3413	1,442,723
						-
25.00	11.6	Providing and laying Antiskid endura floor tiles of any sizes, 12 mm water absorption's less than 0.08% and conforming with IS: 15622 in all colours and shades, laid on 20mm riortar 1:4 (1 cement :4 sand) including grouting the te cement with matching pigments etc., complete.	SQM	32.40	880	28,512

Name of Component :-			Interior Work			
26	11.25 MPP WD	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. a) 18 mm thick Italian Marble stone slab,Perlato, Rosso erona, Fire Red or Dark Emperadore etc	sqm	422.25	4717	1,991,743
						-
27	11.26 MPP WD	Providing and fixing machine cut, mirror / eggshell polished, Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 sand) laid and jointed with white cement slurry @3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. a) 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc	sqm	332.99	5566	1,853,405
						-
28	11.26.1 UADD	Kota/cuddapah stone slab 30 mm thick flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar (1 cement : 4 course sand) 1 : 4 (minimum size of kota stone 0.25 sqm)	SQM	145.98	840	122,623

Name of Component :-			Interior Work			
						-
29	11.32 MPP WD	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : a) Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	SQM	648.00	3663	2,373,624
						-
30	8.10	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-incharge and finished smooth.				-
	8.10.2	Granite Stone of approved shade	SQM	4.05	2824	11,437
						-
						-
		PANELLING AND FALSE CEILING				-

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Name of Component :-			Interior Work			
31	12.65 MPP WD	Providing and fixing of Glass Fiber Acoustical Suspended Ceiling System with 16mm thick microlook edge tiles of size 595x595mm as approved by Engineer-in-charge, in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 gsm/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 15x38mm made from 0.30mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 24x24x0.3 mm and laying false				-
		ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27x37x25x1.6 x mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85x30x0.8 mm spaced at 1200mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications drawings and as directed by Engineer-in-charge. The tiles should have Humidity Resistance (RH) of 99%, NRC 0.5, Light Reflectance >83%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt -6 and7) in module size				-

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Name of Component :-			Interior Work			
		of 600 x 600 x 16mm with Bio Block coating on the face of the tile, suitable for Green Building application, with Recycled content of 38 - 41%. The Tile and Grid system used together should carry a 15 year warranty.	SQM	555.42	2598	1,442,981
						-
32	12.45 UADD	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts and bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I.				-

Name of Component :-			Interior Work			
		intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm or both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making				-
		openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :				-
	12.45.1	12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I.	SQM	351.67	718	252,499
						-

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Name of Component :-			Interior Work			
33	9.148	Providing and installation of acoustical wall panelling wood finish Slats made out of HDF board , Melamine / veneer laminated finish, perforated wooden grooved slats (2mm grooves @ 8mm centers) / (2mm Slats @16mm pitch) / (2mm grooves @ 32mm centers) / (2mm grooves @ 64mm centers), backlined with black acoustical fleece, tongue-groove edge for a seamless look, FR grade, of lineal dimension size 128mm x 2440mm x 16mm thick having density lOOOKg /m3, weight 12.8Kgs/m2 installed by using GI strut system. The GI strut system includes GI Cross channel having thickness 0.45mm, length 3600mm, knurled web 40mm, depth 10mm and equal flanges 15mm is fastened vertically/horizontally at every 600mm centers. Aluminium core cross channel having thickness 0.5mm, length 2400mm, web 15mm and 27mm, depth 18mm and flanges of 7mm with suitable edge and centre brackets is then fixed perpendicular to the cross channel with the help of fasteners at every 400mm centers. Contractor to Provide expansion joints of 3mm at every 5mts bothways.	SQM	358.88	5179	1,858,640
						-
		PAINITING				-
35	13.39 MPP WD	Providing and applying plaster of paris punning of 10 mm average thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	#####	130	1,408,621
36	13.45 UADD	Finishing walls with textured exterior paint of required shade :				-
	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm.	Sqm	604.22	125	75,527
37	13.48 UADD	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				-

Name of Component :-			Interior Work			
	13.48..1	Two or more coats applied @ 1.25 ltr/10 sqm. over and including one coat of Special primer applied @ 0.75 ltr/10 sqm.	Sqm	10231.3	75	767,350
38	13 . 61 UADD	painting with synthetic enamel paint of approved brand and manufacture to give required colour to give an even shade				-
	13.61.1	Two or more coats on new work	Sqm	974.56	45	43,855
		SUB TOTAL SOR ITEMS				**21,975,190**
		NON SOR ITEMS				
1		Providing and laying 100% Nylon pile Carpet Loop 650 GSM, Total Thickness - 6/7 mm, Gauge -1/12 with Action backing, BCF Yarn TypeSoluton Dyed, of make Unitex, Duratile and similar make with Fire Retardant properties, including supply, installation etc. complete	SQM	595.65	1700	1,012,612
2		Supply of Main curtain made of Velvet curtain cloth with horizontal sliding arrangement complete with fixing railing track , fixing brackets ,runner,master runner,3mm rope wire , 1HP crompton moter , drum with groove cutting pulleys , 2 no air breaker switch for reverse 7 forward 2 no air micro switch for auto stop , 3 no push button for open/stop/close position the curtain should be droped to half area ,whenin closed position and minimum overlap at the center should be 900 mm and curtain should be stiched in double gathering of Appropiate size – 40 feet x 14feet	Nos.	1	210,000	210,000

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Name of Component :-			Interior Work			
3		Supply of Rear curtain made of curtain cloth with horizontal sliding arrangement complete with fixing railing track , fixing brackets ,runner,master runner,3mm rope wire , 1HP crompton moter , drum with groove cutting pulleys , 2 no air breaker switch for reverse 7 forward 2 no air micro switch for auto stop , 3 no push button for open/stop/close position the curtain should be droped to half area ,whenin closed position and minimum overlap at the center should be 900 mm and curtain should be stiched in double gathering of Appropiate size – 40 feet x 28 feet	Nos.	1	210,000	210,000
4		Supplying of suitable size average frills made out from Black glazed cotton cloth duly stiched in double gathering in appropiate size- 40feet x 3feet	Nos.	3	28,000	84,000
5		Supplying of suitable size stage wing panel made out from 25mm x 50mm of 16swg MS pipe duly painted in black color with black glazed cotton cloth both side having manual moving facility of appropiate size	Nos.	4	28,500	114,000
		HALL CEILING AND PANELLING				
6		Supply and installation of FR Grade Solserene fabric system with high-performance integrated core with a white matte face covering, acoustically-transparent textile of size 4/5mx75m, shall be stretched by using combination of GI strut channel framework and GI strut system, wooden base 10mm thick, rigid vinyl Stretch Tracks half wrap 25mm (SE25) and Midseam 25mm (SE25), strand board, synth PF 10x10 infill with requisite accessories & tools.	sqm	387	14,525	5,627,435

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Name of Component :-			Interior Work			
		The GI strut channel Framework includes Floor/ Head (FC50) GI channels having thickness 0.55mm, length 3600mm, equal flanges of 32mm and web of 50mm fixed to floor and ceiling with suitable fasteners at 300mm centers in staggered manner very next to primary paneling. Noise and fire rated silicon sealant to be caulked along the perimeter of the partition frame before fixing channels. Then Stud channel (SC48) having thickness 0.45mm, length 3600mm, unequal flanges of 34/36mm and web of 48mm should be placed into the floor/head channel positioned vertically at 600mm centers. Extra reinforcement to be provided at openings (doors, windows, etc.,)				
		The GI strut system includes Cross channel (CC10) having thickness 0.45mm, length 3600mm, knurled web 40, depth 10mm and equal flanges of 15mm is screw fixed to the GI strut channel Framework behind @ 600mm centers.Wooden base 10mm is then installed on CC10 along the marking lines with metal fasteners inserted at 300 mm centers.SE25 tracks to be installed on wooden base,after applying Stick S7 adhesive on both surfaces for a true and continuous secure grip, and heavy-duty fasteners at 150mm centers on one/both sides of Stretch Tracks.				

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Name of Component :-			Interior Work			
		square edge magnesite bonded pinewood fiber panels of size 600x1200x20mm having density 400kg/m3, weight 8kg is fixed to CC10 (In between vinyl tracks) with suitable fasteners.Longer edges of panels should be perpendicular to CC10.Synth PF 10x10mm thick adhered on strand panel by using Stick 7 adhesive.The SLS fabric of width 5m is stretched and tucked into the tracks and secure into the locking jaws with tucking tools to obtain smooth, wrinkles free finish. Ensure the cord in the fabric are oriented in one direction to achieve uniform shade. Note - minimum 50mm additional fabric is required for tucking hence maximum module wall fabric width would be 3900/4900mm.				
		Technical Parameters of system				
		• Core - pinewoodfibre & Poly fibre • Fire – 1 &P,class A • Acoustics – NRC 0.75(system NRC,for 25mm thk Strand C50 mounting) • Climate (OC RH) – 49, 90 • Termite resistance – Yes • Light reflectance – Colour dependent • Green (RC %) – 25 • Hygiene (VoC, Clean room) – Low, Class 1				
7		Supply and installation of color FR Grade Solserene fabric system with high-performance integrated core with a color matte face covering, acoustically-transparent textile of size 4/5mx75m. Wooden base 10mm is first installed to the C-System (MC45 & CC22) on the marked lines with metal fasteners at 300mm centers embedded in plastic sleeves. Fix SE25 half wrap / full wrap, Midseam and Track outer corner, rigid FR-PVC high strength extrusions square / bevel edge on the wooden surface by using heavy-duty diverging fasteners at 25mm centers on one/both sides of Stretch Tracks.	SQM	166.91	14,374	2,399,221.84

Name of Component :-			Interior Work			
		The ceiling system (C-System) shall includes GI Wall channel (WC22) having thickness 0.45mm, length 3600mm, unequal flanges of 20 & 30mm and web of 25mm to be fixed along the perimeters of the wall with nylon sleeves and suitable fasteners at every 300mm centers. Suspended Main channels (MC45) having thickness 0.8mm, length 3600mm, equal flanges of 15mm and web 45mm from the soffit at every 1200mm centers with Suspender angle (SA25) having thickness 0.45mm, length 3600mm, unequal flanges of 25 & 10mm. GI Cross channel (CC25) having thickness 0.45mm, length 3600mm, knurled web of 50mm, depth of 25mm and equal flanges of 9.5mm is fastened to the Main channel (MC45) in the direction perpendicular to the Main Channel (MC45) at every 600mm centers.				
		magnesite bonded pinewood fiber panels of size 600x1200x20mm thk installed to Strut CC25 by using fasteners, Anutone Synth PF 10x25mm thick is then adhered on strand board using Stick 7 adhesive. Ensure 5mm airgap between synth PF and SLS fabric. The SLS fabric of width 4/5m is stretched and tucked into the tracks and secure into the locking jaws with tucking tools to obtain smooth, wrinkles free finish. Ensure the cord in the fabric are oriented in one direction to achieve uniform shade.				

Name of Component :-			Interior Work			
		Technical Parameters				
		• Core Variants - Polyfibre • Fire – Class A • Acoustics – NRC up to 1 • Climate (OC RH) – 49, 90 • Termite resistance – Yes • Light reflectance – Colour dependant • Green (RC %) – 25 • Hygiene (VoC, Clean room) – Low, Class 1				
		TOTAL NON SOR ITEMS				**9,657,269**
		SUBTOTAL SOR AND NON SOR ITEMS				**31,632,459**
		Sub Engineer J.S.C.L., Jabalpur		Executive Engineer J.S.C.L., Jabalpur		

				FORMAT - F			1.00	b

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-				1.00			
Name of Project Sub Head :-	Construction of AUDITORIUM				Construction of COURT BUILDING		
S.No. of Component :-				b			
Name of Component :-			Interior Work				

Quantity Sheet

S.No	SOR ITEM NO.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity
1	2	3	4	5.00	6.00	7.00	8.00	9.00
				SOR ITEMS				
1	8.2 MPPWD	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:						
			SQM	1	6	3.6		21.6
				2	3.6	3.6		25.92
				1	11	3.6		39.60
								87.12

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Name of Component :-				Interior Work				
2	9.121 UADD	Providing and fixing of Fiber Glass Reinforced plastic (FRP) Door Frames of three legged of cross-section 90mm x 45mm having single rebate of 32mm x 15mm to receive shutter of 30mm thickness .The laminate doorframe molded with fire resistant grade unsaturated polyester resin and chopped mat .Doorframe laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiberglass from all sides. M.S. stay shall be provided at the bottom to steady the frame	MT					
			Door	**NOS**	**W**	**HT**	**FRAME L/DOOR**	**TOTAL**
			D1	1	3	2.5	14.20	14.20
			D2	1	2.00	2.5	11.20	11.20
			D3	6	1.80	2.5	10.60	63.60
			D4	10	1.50	2.5	9.70	97.00
			D5	7	1.20	2.5	8.80	61.60
			D6	10	0.90	2.5	7.90	79.00
			D7	13	0.75	2.1	5.15	66.95
								393.55
3	9.122	Providing and fixing to existing door frames.						

Name of Component :-				Interior Work				
	9.122.2 UADD	30mm thick fiberglass reinforced plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 : 2000, complete as per direction of Engineer-in-charge		NOS				AREA
			Door		W	HT		
			D1	1	3.0	2.5		7.50
			D2	1	2.0	2.5		5.00
			D3	6	1.8	2.5		27.00
			D4	10	1.5	2.5		37.50
			D5	7	1.2	2.5		21.00
			D6	10	0.9	2.5		22.50
			D7	13	0.8	2.1		20.48
				48.00				**140.98**
5	9.126 UADD	Providing and fixing 12mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick.						

Name of Component :-				Interior Work				
	9.126.1	Marine plywood of lamination / painting quality and conforming to IS: 710						
			D7	13	0.8	2.1		**20.48**
	9.126.2	Fire retardant plywood of lamination / painting quality conforming to IS: 5509.						
			D1	1	3.0	2.5		7.50
			D2	1	2.0	2.5		5.00
			D3	6	1.8	2.5		27.00
			D4	10	1.5	2.5		37.50
			D5	7	1.2	2.5		21.00
			D6	10	0.9	2.5		22.50
								120.50
6	9.77 UADD PG.100	Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	1	PER DOOR		48.00	DOORS	**48.00**
7	9.74 UADD P. No.100	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :						
	9.74.1	250x10 mm	1	PER SHUTTER		66.00	SHTR	**66.00**
8	9.81 UADD P. No.100	Providing and fixing bright finished brass handles with screws etc. complete :						
	9.66.1	125 mm	2	PER SHUTTER		66.00	SHTR	**132.00**
9	9.82 UADD	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	1	PER SHUTTER		66.00	SHTR	**66.00**

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Name of Component :-				Interior Work				
10	17.4 UADD	Providing and fixing double action hydraulic floor spring of approved brandand manufacture IS : 6315 marked,for doors including cost ofcutting floors asrequired, embedding infloors and cover plateswith brass pivot and singlepiece M.S.sheet outer box with slide plate etc. complete as perthedirection of Engineer-in-charge.						
		With brass cover plate	1	PER SHUTTER		66.00	SHTR	**66.00**
10	17.1 UADD	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Zsections andothersections of approved make conforming to IS: 733 and IS : 1285,fixed with rawl plugs and screws orwith fixing clips, orwith expansion hold fasteners including necessary filling upof gaps atjunctions, attop, bottom and sideswith required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free,straight, mitred and jointed mechanically wherever required including cleat angle,		NOS	W		HT	AREA
	17.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)						
			W1	1	2.2		1.6	3.52
			W2	12	1.4		1.6	26.88
			W3	2	1.1		1.6	3.52

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Name of Component :-				Interior Work				
			V1	2	1.4		0.4	1.12
			V2	6	1.1		0.4	2.64
			V3	4	0.8		0.4	1.28
						SQM		**38.96**
		Weight at 9 kg per m2				kg	9.00	**350.64**
11	17.3 UADD	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC /neoprenegasket 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):		WINDOW AREA			SQM	**38.96**
12	21.17 MPPWD SOR	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC15) of approved design / pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws OOmm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).		SAME AS WINDOW AREA			SQM	**38.96**
		GRILL AT 10 KG/M2		KG			10.00	**389.60**

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Name of Component :-				Interior Work				
		STEEL WORK						
13	10.25 UADD	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required						
	10.25.1	In stringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.						
		LADDERS		7.00	1.20	4.00	1.33	44.80
		LADDERS @20KG PER SQM				20.00	44.80	896.00
								3,332.00
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.						
		STAGE LINE FRAMES		16.00	8.00	1.50		192.00
		LINES AND PULLIES		16.00	8.00			128.00
		STAGE LINES @ 35 KG/M2				35.00	192.00	6,720.00
		LINE CABLES AND PULLIES AT @10 KG/RM				10.00	128.00	1,280.00
								8,000.00

Name of Component :-				Interior Work				
14	10.25 MPPWD	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)						
		RAILING		NOS	L	HT		TOTAL
		GF	RAMP	2.00	28.00	1.05		58.80
			ST	4.00	3.60	1.05		15.12
				1.00	6.70	1.05		7.04
								80.96
		STAIRCASE RAILING @ 16 KG/M2				16.00	80.96	**1,295.28**
15	10.23 MPPWD	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.						
		GF	RAMP	2.00	28.00			56.00
				4.00	3.60			14.40
				1.00	6.70			6.70
				2.00	14.40			28.80

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Name of Component :-				Interior Work				
				1.00	1.20			1.20
				2.00	3.60			7.20
				2.00	4.20			8.40
								122.70
				WT @4.03 KG 50 MM MEDIUM				**494.48**
16	10.3 UADD	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia steel pulleys complete with bolts, nuts, locking arrangement, stoppers,handles, including applying a priming coat of approved steel primer.						
				1	6	3.6		21.60
				2	3.6	3.6		25.92
				2	2.4	3.6		17.28
				1	1.2	3.6		4.32
								69.12

Name of Component :-				Interior Work				
17	10.6 UADD	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to I.S. 4454-part-1 and M.S. top cover of required thickness for rolling shutters.						
	10.6.1	80x1.25mm M.S. laths with 1.25 mm thick top cover.	sqm					
				1	4	3.6		14.40
			D2	1	3	3.6		10.80
								25.20
	10.7	Providing and fixing ball bearing for rolling shutters.	each					**2.00**
	10.8	Extra for providing suitable mechanical device chain and crank operation for operating rolling shutters.						
	10.8.2	Exceeding 16.80 sqm in area.	sqm	AS SHUTTER AREA				**25.20**

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Name of Component :-				Interior Work				
	10.9	Extra for providing grilled rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in-charge, (area of grill to be measured).	sqm					
				1	4	1		4.00
				1	3	1		3.00
								7.00
18	10.2 uadd	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg					
		WALKWAY		1.00	12.00	1.20		14.40
		WALKWAY @ 65KG PER SQM				65.00	14.40	936.00
		WALKWAY STRUCTURE	KG					1,500.00
		LINES STRUCTURE	KG		3.00	750.00		2,250.00
								4,700.40
		FLOORING						
19	11.3 UADD	Cement concrete flooring M-15 (nominal mix) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.						
		STAGE		1	7.4	14.4		106.56
		LIFT		1	1.9	2.4		4.56
		HALL		1	4.3	16.2		69.66
				1	1.2	17.2		20.64
				1	1.2	18.2		21.84
				1	1.2	18.8		22.56
				1	1.2	19.6		23.52
				1	1.2	20.8		24.96
				1	1.2	21.4		25.68
				1	1.2	22.2		26.64
				1	2.8	25.4		71.12

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Name of Component :-				Interior Work				
				-1	1.4	7.4		(10.36)
		FIRE EXIT		1	2.2	16.8		36.96
				1	2	0.6		1.20
		CORRIDOOR		1	2.6	18.5		48.10
				2	3.8	3.2		24.32
		SKIRTING	SQM	NOS	L	B	H	TOTAL = NOS X (L + B) X 2 X H
				1.00	7.40	14.40	0.15	15.98
				1.00	1.90	2.40	0.15	0.68
				1.00	4.30	16.20	0.15	10.45
				1.00	1.20	17.20	0.15	3.10
				1.00	1.20	18.20	0.15	3.28
				1.00	1.20	18.80	0.15	3.38
				1.00	1.20	19.60	0.15	3.53
				1.00	1.20	20.80	0.15	3.74
				1.00	1.20	21.40	0.15	3.85
				1.00	1.20	22.20	0.15	4.00
				1.00	2.80	25.40	0.15	10.67
				(1.00)	1.40	7.40	0.15	(1.55)
				1.00	2.20	16.80	0.15	5.54
				1.00	2.00	0.60	0.15	0.18
				1.00	2.60	18.50	0.15	7.22
				2.00	3.80	3.20	0.15	3.65
								595.65
20	11.34	38 mm thick wood block flooring of first class teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete	SQM					
		STAGE		1	7.4	14.4		106.56
		GREEN ROOM		1	6.5	5.6		36.40
		GREEN ROOM 2		1	7.8	4		31.20
		VIP		1	3	3		9.00

Name of Component :-				Interior Work				
		O.A.T. STEPS		0.50	5.50	CIRCLE	5.00	8.24
				0.50	5.00	CIRCLE	4.50	7.46
				0.50	4.50	CIRCLE	4.00	6.67
				0.50	4.00	CIRCLE	3.50	5.89
				0.50	3.50	CIRCLE	3.00	5.10
				0.50	3.00	CIRCLE	2.25	6.18
				1.00	2.25	CIRCLE		15.90
				0.50	3.25	CIRCLE	2.25	8.64
				0.50	4.25	CIRCLE	3.25	11.78
				0.50	5.25	CIRCLE	4.25	14.92
				0.50	6.25	CIRCLE	5.25	18.06
				0.50	7.25	CIRCLE	6.25	21.20
				0.50	8.25	CIRCLE	7.25	24.34
				0.50	9.25	CIRCLE	8.25	27.48
				0.30	10.25	CIRCLE	9.25	18.37
				0.25	11.25	CIRCLE	10.25	16.88
				0.13	12.25	CIRCLE	11.25	9.22
								409.46
21	11. 29	Providing and laying gang saw cut, 18 mm thick mirror polished and pre moulded (wherever required) and pre polished machine cut Granite stone of required size and shape of approved shade, colour and texture in flooring laid over 20 mm thick base of cement mortar 1:4 (1 cement : 4 sand) including grouting of joints with white cement mixed with matching pigments, epoxy touchups etc. complete as per instructions of Engineer In Charge.						
		Size of Tile 600x600x9-10 mm	SQM					
		PORCH BOTT		1	5.3	2.2		11.66
		STAIRS		1	6.2	3.6		22.32
		POARCH		1	2	1.5		3.00
		OFFICE		1	4.8	13.2		63.36
		TKT		1	3	4.5		13.50
		CORRIDOOR		1	2.6	6.1		15.86
				1	3.8	3.2		12.16

Name of Component :-				Interior Work				
		SHOP 1		0.5	5.3	6.6		17.49
		SHOP 2		1	4.6	5.2		23.92
		STAIRS		1	4.5	3.2		14.40
		entry 2		1	4.5	2.2		9.90
						TOTAL QUANTITY		**207.57**
22	11.22	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement: 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. samples approved by Engineer-in-charge.						
		COUNTERS		1.00	1.90	0.60		1.14
				1.00	2.80	0.60		1.68
				1.00	1.35	0.60		0.81
				1.00	2.95	0.60		1.77
				1.00	1.20	0.60		0.72
		granite on window cills	TYPE	NOS	L	W	HT	AREA = NOS X (L+H) X 2 * W
			W1	1	2.2	0.2	1.6	1.52
			W2	12	1.4	0.2	1.6	14.40
			W3	2	1.1	0.2	1.6	2.16
			V1	2	1.4	0.2	0.4	1.44
			V2	6	1.1	0.2	0.4	3.60
			V3	4	0.8	0.2	0.4	1.92
						TOTAL QUANTITY		**31.16**

Name of Component :-				Interior Work				
23	8.50.U ADD	Extra for providing opening of required size & shape for wash basins/ kitchensink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holesfor pillartaps etc. including rubbing and polishing of cute dges etc. complete.						**8.00**
24	11.33	Pre polished Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.						
		GREEN ROOM		1	6.5	5.6	1.2	29.04
		STAIRS		1	6.2	3.6	1.2	23.52
		GREEN ROOM 2		1	7.8	4	1.2	28.32
		CORRIDOOR		1	2.6	18.5	1.2	50.64
				2	3.8	3.2	1.2	33.6
		TOI M		1	3	5.6	2.10	36.12
				2	2.6		2.10	10.92
				4	1.4		2.10	11.76
		TOI F		1	3	5.2	2.10	34.44
				2	2.8		2.10	11.76
				1	1.4		2.10	2.94
				2	2		2.10	8.4
		FF ENTRY 2		1	4.5	2.2	1.2	16.08
		OAT RISERS		0.5	5.5	CIRCLE	0.45	7.77
				0.5	5	CIRCLE	0.45	7.07
				0.5	4.5	CIRCLE	0.45	6.36
				0.5	4	CIRCLE	0.45	5.65
				0.5	3.5	CIRCLE	0.45	4.95
				0.5	3	CIRCLE	0.45	4.24
				1	2.25	CIRCLE	0.45	6.36
				0.5	3.25	CIRCLE	0.45	4.59
				0.5	4.25	CIRCLE	0.45	6.01
				0.5	5.25	CIRCLE	0.45	7.42
				0.5	6.25	CIRCLE	0.45	8.83
				0.5	7.25	CIRCLE	0.45	10.24
				0.5	8.25	CIRCLE	0.45	11.66

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Name of Component :-				Interior Work				
				0.5	9.25	CIRCLE	0.45	13.07
				0.3	10.25	CIRCLE	0.45	8.69
				0.25	11.25	CIRCLE	0.45	7.95
				0.125	12.25	CIRCLE	0.45	4.33
								422.71
	11.6	Providing and laying Antiskid endura floor tiles of any sizes, 12 mm water absorption's less than 0.08% and conforming with IS: 15622 in all colours and shades, laid on 20mm riortar 1:4 (1 cement :4 sand) including grouting the te cement with matching pigments etc., complete.						
		TOI M		1	3	5.6		16.80
		TOI F		1	3	5.2		15.60
								32.40

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Name of Component :-				Interior Work				
26	11.25 MPPWD	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. a) 18 mm thick Italian Marble stone slab,Perlato, Rosso erona, Fire Red or Dark Emperadore etc						
		PREFUNCTION		1	7.4	27		171.95
				1	3.5	6		21.00
				1	2.4	2.4		5.76
		PLAZA		1.00	5.10	CIRCLE		81.67
		TOI PHD		1.00	1.80	2.60		4.68
		TOI F		0.50	5.60	4.80		13.44
				1.00	3.60	1.60		5.76
		TOI M		1.00	3.70	4.70		17.39
				1.00	1.80	3.70		6.66
		FF						
		ENTRANCE		1.00	2.50	7.00		17.50
		WAITING		1.00	7.40	3.90		28.86
		VIP ROOM		1.00	5.40	5.80		31.32
		LOBBY		1.00	3.80	3.10		11.78
		TOI AREAS ON GF		1.00	1.60	2.80		4.48
						TOTAL QUANTITY		**422.25**

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Name of Component :-				Interior Work				
27	11.26 MPPWD	Providing and fixing machine cut, mirror / eggshell polished, Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 sand) laid and jointed with white cement slurry @3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. a) 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc						**TOTAL = NOS X (L + B) X 2 H**
		PREFUNCTION		1	7.4	27	1.20	82.56
				1	3.5	6	1.20	22.80
				1	2.4	2.4	1.20	11.52
				1	2.2		1.20	2.64
		PLAZA		0.5	5.1	CIRCLE	1.20	19.22
		TOILETS		1.00	1.80	2.60	2.10	18.48
		TOI F		6	1.4		2.10	17.64
				2	5.4		2.10	22.68
				1	7.4		2.10	15.54
				1	3		2.10	6.30
				1	2.1		2.10	4.41
				1	2.9		2.10	6.09
		TOI M		2	4.7		2.10	19.74
				2	8		2.10	33.60
				3.00	1.50		2.10	9.45
				2.00	2.40		2.10	10.08
				4.00	1.40		2.10	11.76
		TOI AREAS ON GF		1.00	1.60	2.80	2.10	18.48
								332.99

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Name of Component :-				Interior Work				
28	11.26.1 UADD	Kota/cuddapah stone slab 30 mm thick flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar (1 cement : 4 course sand) 1 : 4 (minimum size of kota stone 0.25 sqm)						
		LIGHT AND SOUND CONTROL ROOM		2.00	6.90	3.00		41.40
		AHU		1	4.8	3.8		18.24
		SUMP		0.50	6.40	3.20		10.24
		STORE		1.00	4.00	2.40		9.60
		SERVICES		1	7	9.5		66.50
								145.98
29	11.32 MPPWD	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : a) Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.						
		RAMP		1	3.2	16.7		53.44
		RAMP ROOF		1.00	125.00	1.50		187.50

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Name of Component :-				Interior Work				
				2.00	51.00	3.50		357.00
		OAT STAIRS		1	3.2	8.8		28.16
		OAT RAMP DN		1	1.5	14.6		21.90
								648.00
30	8.10	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-incharge and finished smooth.	SQM	10.00	0.90	0.45		**4.05**
		PANELLING AND FALSE CEILING						

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Name of Component :-				Interior Work				
42	12.65	Providing and fixing of Glass Fiber Acoustical Suspended Ceiling System with 16mm thick microlook edge tiles of size 595x595mm as approved by Engineer-in-charge, in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 gsm/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 15x38mm made from 0.30mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet						
		BASEMENT AREA INSIDE ROOMS					EXTRA FOR COVE	**TOTAL = (NOS *L*B)) + (NOS *(L+B) * 2 * COVE**
		GREEN ROOM		1	6.5	5.6	0.10	38.82
		GREEN ROOM 2		1	7.8	4	0.10	33.56
		VIP		1	3	3	0.10	10.20
		CORRIDOOR		1	2.6	18.5	0.10	52.32
				2	3.8	3.2	0.10	27.12
		POARCH		1	2	1.5	0.10	3.70
		STAGE		1	7.4	14.4	0.10	110.92
		FIRE EXIT		1	2.2	16.8	0.10	40.76
				1	2	0.6	0.10	1.72
		PREFUNCTION		1	7.4	27	0.10	206.68
				1	3.5	6	0.10	22.90
				1	2.4	2.4	0.10	6.72
								555.42

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Name of Component :-				Interior Work				
31	12.45 UADD	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts and bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre					EXTRA FOR COVE	**TOTAL = (NOS *L*B)) + (NOS *(L+B) * 2 * COVE**
		OFFICE		1	4.8	13.2	0.10	66.96
		TKT		1	3	4.5	0.10	15.00
		TOI M		1	3	5.6	0.10	18.52
		TOI F		1	3	5.2	0.10	17.24
		TOI S		1	2	1.8	0.10	4.36
		TOI PHD		1	1.8	2.6	0.10	5.56
		TOI F		0.5	5.6	4.8	0.10	14.48
				1	3.6	1.6	0.10	6.80
		TOI M		1	3.7	4.7	0.10	19.07
				1	1.8	3.7	0.10	7.76
		FF						
		WAITING		1	7.4	3.9	0.10	31.12
		VIP ROOM		1	5.4	5.8	0.10	33.56
		LOBBY		1	3.8	3.1	0.10	13.16
		CORRIDOOR		1	2.6	6.1	0.10	17.60
				1	3.8	3.2	0.10	13.56
		CONTROL ROOMS		1	3	6.8	0.10	22.36
		SHOP 1		0.5	5.3	6.6	0.10	18.68
		SHOP 2		1	4.6	5.2	0.10	25.88
								351.67

Name of Component :-				Interior Work				
32	9.148	Providing and installation of acoustical wall panelling wood finish Slats made out of HDF board , Melamine / veneer laminated finish, perforated wooden grooved slats (2mm grooves @ 8mm centers) / (2mm Slats @16mm pitch) / (2mm grooves @ 32mm centers) / (2mm grooves @ 64mm centers), backlined with black acoustical fleece, tongue-groove edge for a seamless look, FR grade, of lineal dimension size 128mm x 2440mm x 16mm thick having density lOOOKg /m3, weight 12.8Kgs/m2 installed by using GI strut system. The GI strut system includes GI Cross channel having thickness 0.45mm, length 3600mm, knurled web 40mm, depth 10mm and equal flanges 15mm							
		HALL		1	4.3		1.20	5.16
				1	1.2		1.20	1.44
				1	1.2		1.20	1.44
				1	1.2		1.20	1.44
				1	1.2		1.20	1.44
				1	1.2		1.20	1.44
				1	1.2		1.20	1.44
				1	1.2		1.20	1.44
				1	2.8		1.20	3.36
				-1	1.4		1.20	(1.68)
				1	25.4		1.20	30.48
		FIRE EXIT		1	2.2		2.40	5.28
				1	2		2.40	4.80
				1	16.8		2.40	40.32
		OFFICE		1	4.8		2.40	11.52
		STAGE	-	1.00	7.40	14.40	-	106.56
		GREEN ROOM		1.00	6.50		2.20	14.30
				1.00	5.60		2.20	12.32
		GREEN ROOM 2		1.00	7.80		2.20	17.16

Name of Component :-				Interior Work				
				1.00	4.00		2.20	8.80
		VIP		1.00	3.00		2.20	6.60
				1.00	3.00		2.20	6.60
		CORRIDOOR		1.00	2.60		2.20	5.72
				1.00	18.50		2.20	40.70
				2.00	3.80		2.20	16.72
				2.00	3.20		2.20	14.08
								358.88
		PAINITING						
35	13.39 MPPWD	Providing and applying plaster of paris punning of 10 mm average thickness over plastered surface to prepare the surface even and smooth complete.						
		Qty as per INT PLASTER 1 BRK THK						4,807.16
		Qty as per INT PLASTER 1/2 BRK THK						2,138.21
		QTY AS PER CEILING PLASTER						2,019.65
		QTY AS PER EX PAINT						604.22
		DEDUCT AREA UNDER WALL TILES			422.71	332.99		755.70
		DEDUCT AREA UNDER PANELLING			151.74	358.88		510.62
					TOTAL			**10,835.55**
36	13.45 UADD	Finishing walls with textured exterior paint of required shade :						
				1.00	28.00	3.60		100.80
				1.00	4.00	3.60		14.40
				1.00	12.20	8.10		98.82
				1.00	5.40	3.60		19.44
				1.00	8.90	8.10		72.09
				1.00	30.80	4.90		150.92
				1.00	6.50	4.90		31.85
				1.00	49.00	2.00		98.00
		EXPOSED COLS	C5	6	0.5	CIR	3.8	17.898
					QTY AS PER EX PAINT			**604.22**

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Name of Component :-				Interior Work				
37	13.48 UADD	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :						
		Qty as per INT PLASTER 1 BRK THK						4,807.16
		Qty as per INT PLASTER 1/2 BRK THK						2,138.21
		QTY AS PER CEILING PLASTER						2,019.65
		DEDUCT AREA UNDER WALL TILES			422.71	332.99		755.70
		DEDUCT AREA UNDER PANELLING			151.74	358.88		510.62
								10,231.33
38	13 . 61	Painting with synthetic enamel paint of approved brand and manufacture to give required colour to give an even shade						
		area of grill x2		GRILL AREA		38.96	2.00	77.92
		LADDERS				44.8	2.00	89.60
		STAGE LINE FRAMES				192	2.00	384.00
		LINES AND PULLIES				128	2.00	256.00
		ROLLING SHUTTERS				69.12	2.00	138.24
		WALKWAY				14.4	2.00	28.80
						TOTAL AREA	:	**974.56**
		NON SOR ITEMS						
1		Providing and laying 100% Nylon pile Carpet Loop 650 GSM, Total Thickness - 6/7 mm, Gauge -1/12 with Action backing, BCF Yarn TypeSoluton Dyed, of make Unitex, Duratile and similar make with Fire Retardant properties, including supply, installation etc. complete						
		area under cement flooring					595.65	**595.65**

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Name of Component :-				Interior Work				
2		Supply of Main curtain made of Velvet curtain cloth with horizontal sliding arrangement complete with fixing railing track , fixing brackets ,runner,master runner,3mm rope wire , 1HP crompton moter , drum with groove cutting pulleys , 2 no air breaker switch for reverse 7 forward 2 no air micro switch for auto stop , 3 no push button for open/stop/close position the curtain should be droped to half area ,whenin closed position and minimum overlap at the center should be 900 mm and curtain should be stiched in double gathering of Appropiate size – 40 feet x 14feet	Nos.					**1**

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Name of Component :-				Interior Work				
3		Supply of Rear curtain made of curtain cloth with horizontal sliding arrangement complete with fixing railing track , fixing brackets ,runner,master runner,3mm rope wire , 1HP crompton moter , drum with groove cutting pulleys , 2 no air breaker switch for reverse 7 forward 2 no air micro switch for auto stop , 3 no push button for open/stop/close position the curtain should be droped to half area ,whenin closed position and minimum overlap at the center should be 900 mm and curtain should be stiched in double gathering of Appropiate size – 40 feet x 28 feet	Nos.					**1**
4		Supplying of suitable size average frills made out from Black glazed cotton cloth duly stiched in double gathering in appropiate size- 40feet x 3feet	Nos.					**3**
5		Supplying of suitable size stage wing panel made out from 25mm x 50mm of 16swg MS pipe duly painted in black color with black glazed cotton cloth both side having manual moving facility of appropiate size	Nos.					**4**

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Name of Component :-				Interior Work				
6		Supply and installation of Anutone Stretch SLS FR Grade Solserene fabric system with high-performance integrated core with a white matte face covering, acoustically-transparent textile of size 4/5mx75m, shall be stretched by using combination of GI strut channel framework and GI strut system, wooden base 10mm thick, rigid vinyl Stretch Tracks half wrap 25mm (SE25) and Midseam 25mm (SE25), strand board, synth PF 10x10 infill with requisite accessories & tools.					EXTRA FOR COVE	TOTAL = (NOS *L*B)) + (NOS *(L+B) * 2 * COVE
		HALL		1	4.3	16.2	0.15	75.81
				1	1.2	17.2	0.15	26.16
				1	1.2	18.2	0.15	27.66
				1	1.2	18.8	0.15	28.56
				1	1.2	19.6	0.15	29.76
				1	1.2	20.8	0.15	31.56
				1	1.2	21.4	0.15	32.46
				1	1.2	22.2	0.15	33.66
				1	2.8	25.4	0.15	79.58
				-1	1.4	7.4	0.15	(13.00)
								352.21
						add 10% for steps		35.22
								387.43

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Name of Component :-				Interior Work				
7		Supply and installation of Anutone Stretch SLS color FR Grade Solserene fabric system with high-performance integrated core with a color matte face covering, acoustically-transparent textile of size 4/5mx75m. Wooden base 10mm is first installed to the C-System (MC45 & CC22) on the marked lines with metal fasteners at 300mm centers embedded in plastic sleeves. Fix SE25 half wrap / full wrap, Midseam and Track outer corner, rigid FR-PVC high strength extrusions square / bevel edge on the wooden surface by using heavy-duty diverging fasteners at 25mm centers on one/both sides of Stretch Tracks.						
		HALL		1	4.3		5	21.50
				1	1.2		4.75	5.70
				1	1.2		4.5	5.40
				1	1.2		4.25	5.10
				1	1.2		4	4.80
				1	1.2		3.75	4.50
				1	1.2		3.5	4.20
				1	1.2		3.5	4.20
				1	2.8	0	3.5	9.80
				-1	1.4		3.5	(4.90)
				1	25.4		3.6	91.44
								151.74
					add 10% for steps			15.174
								166.91
		RATE ANALYSIS OF NON SOR ITEMS						
1)	NS	100% Nylon pile Carpet Loop 650 GSM, Total Thickness - 6/7 mm, Gauge -1/12 with Action backing, BCF Yarn TypeSoluton Dyed, of make Unitex, Duratile and similar make with Fire Retardant properties, including supply, installation etc. complete						
		Basic price incl wastages and cartage to site		110.00	rs per sft		SQM	1183.60
		GST @ 12%						142.03
		Total						**1325.63**

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Name of Component :-				Interior Work				
		Installation		11.00	rs per sft		sqm	118.36
		GST @ 18%						21.30
								139.66
		Total						1465.30
		Water charges		1.00%				14.65
		Add Contractor Profit @15%						219.79
		Total after profit						1699.74
`		Rounded to (Rs.)						**1700.00**
2)	NS	Supply of Main curtain made of Velvet curtain cloth with horizontal sliding arrangement complete with fixing railing track , fixing brackets ,runner,master runner,3mm rope wire , 1HP crompton moter , drum with groove cutting pulleys , 2 no air breaker switch for reverse 7 forward 2 no air micro switch for auto stop , 3 no push button for open/stop/close position the curtain should be droped to half area ,whenin closed position and minimum overlap at the center should be 900 mm and curtain should be stiched in double gathering of Appropiate size –12X5M						
		Basic price incl wastages for cloth		12 x 5	m	500.00	per SQM	30000.00
		Specialized frame and mechanism i/c installation i/c transportation		ITEM				124000.00
		Total material						**154000.00**
		GST @ 18%						27720.00
		Total material and installation i/c gst						**181720.00**
		Water charges		1.00%				1817.20
		Add Contractor Profit @15%						27258.00
		Total after profit						210795.20
`		Rounded to (Rs.)						**210000.00**
3		Supply of Rear curtain made of curtain cloth with horizontal sliding arrangement complete with fixing railing track , fixing brackets ,runner,master runner,3mm rope wire , 1HP crompton moter , drum with groove cutting pulleys , 2 no air breaker switch for reverse 7 forward 2 no air micro switch for auto stop , 3 no push button for open/stop/close position the curtain should be droped to half area ,whenin closed position and minimum overlap at the center should be 900 mm and curtain should be stiched in double gathering of Appropiate size – 40 feet x 28 feet						
		Basic price incl wastages for cloth		12 x 5	m	500.00	per SQM	30000.00
		Specialized frame and mechanism i/c installation i/c transportation		ITEM				124000.00

Name of Component :-				Interior Work				
		Total material						**154000.00**
		GST @ 18%						27720.00
		Total material and installation i/c gst						**181720.00**
		Water charges		1.00%				1817.20
		Add Contractor Profit @15%						27258.00
		Total after profit						210795.20
`		Rounded to (Rs.)						**210000.00**
4		Supplying of suitable size average frills made out from Black glazed cotton cloth duly stiched in double gathering in appropiate size- 40feet x 3feet						
		Basic price incl wastages for cloth	1frill	30.00	sqm	500.00	per M	15000.00
		Specialized frame and mechanism i/c installation i/c transportation		ITEM				5000.00
		Total including material and installation						20000.00
		GST @ 18%						3600.00
		Totali/c gst						23600.00
		Water charges		1.00%				236.00
		Add Contractor Profit @15%						3540.00
		Total after profit						27376.00
		Rounded to (Rs.)						**28000.00**
5		Supplying of suitable size stage wing panel made out from 25mm x 50mm of 16swg MS pipe duly painted in black color with black glazed cotton cloth both side having manual moving facility of appropiate size						
		frame	1	12.00	sqm	12.00	kg	144.00
		cost						
	10.16.2	Hot finished seamless type tubes		144.00	KG	86.00	RS	12384.00
		Basic price incl wastages for cloth	1	12.00	sqm	100.00	sq	1200.00
								13584.00
		GST18%						2445.12
		TOTAL MATERIAL I/C gst						16029.12

Name of Component :-				Interior Work				
		Specialized frame and mechanism i/c installation i/c transportation		25.00%				4000.00
		GST18%						720.00
		TOTAL INSTALLATION I/C gst						4720.00
		Total including material and installation						20749.12
		GST @ 18%						3734.84
		Totali/c gst						24483.96
		Water charges		1.00%				244.84
		Add Contractor Profit @15%						3672.59
		Total after profit						28401.40
		Rounded to (Rs.)						**28500.00**
6		PANELLING STRETCH FABRIC COVERED						
		Supply and installation of FR Grade Solserene fabric system with high-performance integrated core with a white matte face covering, acoustically-transparent textile of size 4/5mx75m, shall be stretched by using combination of GI strut channel framework and GI strut system, wooden base 10mm thick, rigid vinyl Stretch Tracks half wrap 25mm (SE25) and Midseam 25mm (SE25), strand board, synth PF 10x10 infill with requisite accessories & tools.						
		Silica Bead 6mm		3.00	LTR	632.40		1897.20
		Floor channel FC50 lm 27.8 86.00 0.60 86.60 2,407.54		27.80	M	86.60		2407.48
		Head channel HC50		27.80	M	86.60		2407.48
		Studchannel SC48 @ 600mm centres lm		169.20	M	102.71		17378.53
		Strand 600x1200x20mm		100.00	M2	1133.88		113388.00
		Stretch SLS Fabric m2		100.00	M2	4248.53		424853.00
		Cross Channel CC 10		208.50	M	56.39		11757.32
		Half wrap / Full wrap		40.00	M	1169.13		46765.20
		Midseam		30.00	M	1609.19		48275.70
		Synth PF 10x10mm		100.00	M2	465.23		46523.00
		Stick S7		70.00	LTRS	388.70		27209.00
		Anchor Bolt, Soffit Cleat, Butterfly clip, Suspension wire/Rod, Spacer Bar		100.00	M2	100.70		10070.00
		TOTAL						**752931.91**
		Wastage @10% on total product cost 7 5,293.39						75293.19
								828225.10
		GST @18%						149080.52
		MATERIAL I/C GST						**977305.62**

Name of Component :-				Interior Work				
		Transportations (3%) on product cost		3.00%				22587.96
		Tools and tackles @ 3% total product cost		3.00%				2258.80
		Cost of Labour @20% I/C GST		20.00%				195461.12
		COST I/C GST						**220307.88**
		TOTAL I/C MATERIALAND LABOUR						**1197613.49**
		WATER Charges @1%		1.00%				11976.13
		Contractor margin @		15.00%				179642.02
		Grand Total 1	M2	100.00				1389231.65
		Rate per m2						**13892.32**

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Name of Component :-				Interior Work				
7		Supply and installation of color FR Grade Solserene fabric system with high-performance integrated core with a color matte face covering, acoustically-transparent textile of size 4/5mx75m. Wooden base 10mm is first installed to the C-System (MC45 & CC22) on the marked lines with metal fasteners at 300mm centers embedded in plastic sleeves. Fix SE25 half wrap / full wrap, Midseam and Track outer corner, rigid FR-PVC high strength extrusions square / bevel edge on the wooden surface by using heavy-duty diverging fasteners at 25mm centers on one/both sides of Stretch Tracks.						
		Suspender Angle SA25 & 1200mm centers		25.60	M	31.22		799.23
		Main channel MC45 @ 1200mm centres		80.00	M	86.60		6928.00
		Ceiling channel CC25 @ 600mm centres		160.00	M	87.61		14017.60
		Wall Channel WC25 Wall perimeter		40.00	M	35.35		1414.00
		Strand 600x1200x20mm		100.00	M2	1,133.88		113388.00
		Stretch SLS Fabric		100.00	M2	4,248.53		424853.00
		Half wrap / Full wrap		40.00	M	1,169.13		46765.20
		Midseam		30.00	M	1,609.19		48275.70
		Synth PF 10x10mm		100.00	M2	465.23		46523.00
		Stick S7		70.00	LTR	388.70		27209.00
		Anchor Bolt, Soffit Cleat, Butterfly clip, Suspension wire/Rod, Spacer Bar		100.00	M2	100.70		10070.00
		Total						**740242.73**
		Wastage @10% on total product cost 7 5,293.39						74024.27
								814267.01
		GST @18%						146568.06
		MATERIAL I/C GST						**960835.07**

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Name of Component :-				Interior Work				
		Transportations (3%) on product cost		3.00%				22207.28
		Tools and tackles @ 3% total product cost		3.00%				2220.73
		Cost of Labour @20% I/C GST		20.00%				192167.01
		COST I/C GST						**216595.02**
		TOTAL I/C MATERIALAND LABOUR						**1177430.09**
		WATER Charges @1%		1.00%				11774.30
		Contractor margin @		15.00%				176614.51
		Grand Total T	M2	100.00				1365818.90
		Rate per m2						**13658.19**
		Sub Engineer J.S.C.L., Jabalpur				Executive Engineer J.S.C.L., Jabalpur		

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			FORMAT - E		1	C

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-	1				
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDING				
S.No. of Component :-	C				
Name of Component :-	Internal Water supply, Plumbing and Sanitary				

Abstract Of Cost

S.No.	SOR Item NO.	Description Of Item	Unit	Quantity	Rate	Amount in Rs
1	2	3	4	5	6	7
SOR ITEMS						
		SANITARY AND WATER SUPPLY				
A		**CHINAWARE FIXTURES**				
1	25.6 mpp wd	Providing and fixing white vitreous china made extended wall hung type couple closet size 760X360X635mm along with dule flushing cistern flushing capacity 3 & 6 litre approved shape (extended wall hung couple coset pan size 760X360X635mm) with 15mm quarter turn angular stop cock and PVC connection pipe, and all fittings and fixures complete including cutting and making good the wall and floors wherever required:				
	25.6.1 MPP WD	Anti germ Fluoro-Polymer Coated extended wall hung type couple closet size 760X360X635mm with solid poly propelyne made soft closing seat cover	Each	10.00	18369	183690
2	25.9 MPP WD	Providing and fixing white vitreous china type Anti germ Fluoro-Polymer Coated Wash Basin size 190x600x435mm with C. I. Brakets, 15 mm C. P. wall mounted single lever consiled basin mixure, (cortrage size 32 mm) 32 mm C. P. brass made waste coupling length 130mm and 32 mm C. P. Brass Made Bottle Trap size 200x300mm fittings and fixures complete including Painting of fittings and cutting and making good the wall and floors wherever required:				

Name of Component :-			Internal Water Supply, Plumbing and Sanitary			
	25.9.1	White Vetrious China Anti germ Fluoro-Polymer Coated Wash Basin Size 190x600x435mm with wall mounted single lever consiled basin mixure (cortrage size 32mm.)	Each	9.00	16414	147726
3	25.14 MPP WD	Providing and fixing white vitreous china Flat Back Anti germ Fluoro-Polymer Coated Urinal (Inbuilt spreaders, Inbuilt Bottle trape and inbuilt ceramic Waste coupling) Size 710 X 480 X300 mm with sensor complete including painting of fittings and brakets, cutting and making good the wall and floors wherever required :				
	25.14.1 MPP WD	White Vetrious China made Flat Back Anti germ Fluoro-Polymer Coated Urinal (Inbuilt spreaders, Inbuilt Bottle trape and inbuilt ceramic Waste coupling) Size 710 X 480 X300 mm with sensor	each	10.00	20014	200140
4	25.16 MPP WD	Providing & Fixing 8mm thick froasted Urinal glass partition size hight 900 mm top width 450mm and bottum width 300mm brass made bracket with crome plating.	each	9.00	8400	75600
5	25.10 UADD	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
	25.1.1	Kitchen sink with drain board	Each			
	25.10.1.425.10.1.4	460x915 mm bowl depth 178mm.	Each	2.00	4130	8260
6)	25.19 MPP WD	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 tum)Bib cock.	each	10	1,620.00	16200

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Name of Component :-			Internal Water Supply & Sanitary			
7)	25.25 MPP WD	Providing and fixing in position best indian single Lever Auto Mixing Wall Mixer (Cartradge Size 40mm,nickel plating 0.10 micron and chrome plating 0.3 micron) for Shower area use only .	each	2.00	5880	11760
8)	25.31 MPP WD	Providing and fixing in position best indian C. P. brass made Shower Arm Length 600mm (nickel plating 0.10 micron and chrome plating 0.3 micron).	each	2.00	1560	3120
9)	25.32 MPP WD	Providing and fixing in position best indian shower rose 150mm dia, body and face chrome plated, brass made body, Silicon based Rubit cleaning nozzels.	each	2.00	4200	8400
10)	25.33 MPP WD	Providing and fixing C.P. brass grating of approved quality and make conforming to IS: specification.				
	23.38.1	100mm niminal dia	each	38.00	44	1672
11)	25.26	Providing and fixing in position best indian single Lever Auto mixing Basin Mixer (Cartradge Size 32mm,nickel plating 0.10 micron and chrome plating 0.3 micron) For Wash Basin area use only .	each	9.00	4560	41040
12	23.33	Providing & fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 8931				
	23.33.1	15 mm bore	each	33	401.00	13233
13)	25.37 MPP WD	Providing and fixing in position best indian Health Faucet with 8mm dia 1 meter long Flaxible Tube and wall bracket with N. R. V. (nonreturn wall).	each	10	1,920.00	19200
14)	25.70.2	Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.	Each	9	435.00	3915
15	25.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	25.28.2	Flexible pipe				

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Name of Component :-			Internal Water Supply & Plumbing and Sanitary			
	25.28.2.2	40mm dia	Each	2	57	114
16	17.58 MPP WD	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 thennal expansion. Single socketed pipes for working pressure of 4 kg/sqcm.				
	17.58.1	75mm dia (min wall thickness 3.2mm)	RM	60	136.00	8160
	17.58.2	110mm dia (min wall thickness 3.2mm)	RM	100	238.00	23800
17	17.59/ p.n.o. 261	Providing and fixing unplasticized 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 thennal expansion.				
	12.42.1	Coupler				
	12.42.1.1	75mm	each	30.00	160	4800
	12.42.1.2	110mm	each	10.00	200	2000
	12.42.4	Single tee without door				
	12.42.4.1	75x75x75mm	each	10.00	290	2900
	12.42.4.2	110x110x110 mm	each	10.00	392	3920
	12.42.5	Bend 87.50				
	12.42.5.1	75mmbend	each	15.00	163	2445
	12.42.5.2	110mmbend	each	30.00	258	7740
18	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised -PVC rainwater pipes bymeans of 50x50x50mm hard wood plugs, screwed with M.S.screws of required length including cuttingbrick work and fixing incement mortar 1:4 (1 cement : 4 coarse sand) and makinggoodthe wall etc. complete.				

Name of Component :-			Internal Water supply, Plumbing and Sanitary			
	12.43.1	75 mm	each	10.00	110	1100
	12.43.2	110 mm	each	50.00	135.00	6750
19	25.6 UADD	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
	25.60.1	100mm inlet amd 100 outlet each				
	25.60.	Sand cast iron sands pipe as per IS 1729	Each	38.00	517.00	19646
20	23.21 UADD	Providing and fixing unplasticised PVC connection pipe with brass unions				

Name of Component :-			Internal Water supply & Sanitary			
	23.21.2	45 cm length				
	23.21.2.1	15mm nominal bore	each	31.00	50	1550
21	23.10.UADD	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.				
i)	23.10.1	15 mm dia. nominal bore	Rm	50.00	139	6950
ii)	23.10.2	20mmdia	Rm	26.00	172	4472
iii)	23.10.3	25mmdia	Rm	50.00	232	11600
iv)	23.10.4	32mm dia	rm	20.00	288	5760
v)	23.10.5	40 mm dia. nominal bore	Rm	20.00	347	6940
vi)	23.10.6	50mm dia TankFilling and Terrace Ring	Rm	200.00	441	88200
22.00	18.33 MPP WD	Providing and fixing gun metal gate valve with brass lever handle				
		of approved quality.				
	18.33.1	25 mm nominal bore	each	2	341	682
	18.33.2	32 mm nominal bore	each	2	419	838
	18.33.3	40mm nominal bore	each	2	491	982
	18.33.4	50mm nominal bore	each	2	639	1278
23	25.32 UADD	Providing and fixing mirror of superior glass of approved quality andrequired shapeand size with 6mm th hardboard backing				
	25.32.4	rectangular shape 1500x450	each	9.00	1729	15561
24	17.75 MPP WD	Providing and fixing C.P. brass soap dish of approved quality and make	Each	15.00	422	6330
25	17.73 MPP WD	providing and fixing C.P. brass towel railof approved quality andmake				

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Name of Component :-			Internal Water Supply, Plumbing and Sanitary			
	17.73.2	450x20	Each	10.00	836	8360
26	25.34	Toilet paper holder				
	25.34.1	C.P. brass	each	10.00	182	1820
		TOTAL COST OF SANITARY INSTALLATION				**978654**

Sub Engineer
J.S.C.L., Jabalpur

Executive Engineer
J.S.C.L., Jabalpur

M/S A. WALLABH AND WALLABH ASSOCIATES
B-5/86, PASCHIM VIHAR, NEW DELHI 110063
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FORMAT - F

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK JABALPUR, M.P.

S.No. of Project Sub Head :-		1.00			
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDING				
S.No. of Component :-		c			
Name of Component :-	Internal Water supply ,Plumbing and Sanitary				

Quantity Sheet

S.N.	SOR ITEM NO.	Description Of Item	Unit	Nos		
1	2	3	4.00	5.00		
		SOR ITEMS				
		SANITARY AND WATER SUPPLY				
A		**CHINAWARE FIXTURES**				
1	25.6 mppwd	W.C		EWC		
		GR FL				
		Public toi		9.00		
		FF				
		vip toi		1.00		
		TOTAL		**10.00**		
2	25.9 MPPWD	WASH BASIN INCLUDING TAPS				
		GR FL				
		Public toi		8.00		
		FF				
		vip toi		1.00		
		TOTAL		**9.00**		
3	25.14 MPPWD	URINAL				
		GR FL				
		Public toi		10.00		
		TOTAL		**10.00**		
4	25.16 MPPWD	URINAL PARTITION		9.00		
5	25.10U ADD	kitchen sink one inKIT AND PANTRY		2.00		

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6	25.19 MPPWD	bib cock o 1 PER TOI NEAR WC		10.00		
7	25.25 MPPWD	Shower mixer		2.00		
8	25.31 MPPWD	shower arm		2.00		
9	25.32 MPPWD	shower rose		2.00		
10	25.33 MPPWD	Providing and fixing C.P. Brass grating				
		WC		10.00		
		WB		9.00		
		URINALS		10.00		
		SINK KIT		2.00		
		SHOWER		5.00		
		DRINKING WATER FACILITY 1 AT EACH FL		2.00		
		total		**38.00**		
11	25.26	central ole basin mixer	9.00			
12	23.33	ANGLE VALVE				
		1 WB, 1 WC, 1 URINAL		33.00		
13	25.37 MPPWD	HEALTH FAUCET		10.00		
14	25.70.2	bottle trap				
		1 per wb		9.00		
15	25.28	PVC WASTE FOR sink		2.00		
16	17.58/P.No. 261	PVC SOIL WASTE PIPE RWP				
	17.58.1	75 mm dia min wall th 3.2mm toi		**60.00**		
	17.58.2	110 dia (42x9)	rm	50.00		
		rwp 10X5		50.00		
		TOTAL		**100.00**		
17	17.59/P.No. 261	PVC FITTINGS				
		COUPLAR FOR 110 OD PIPE		30.00		
		for 75 od pipe		10.00		

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		TEE FOR 110		10.00		
		TEE FOR 75		10.00		
		BENDS 110 OD		30.00		
		75 OD		15.00		
			SAY			

18	12.43	PIPE CLIPS FOR 100 DIA		**50.00**		
		pipe clips for 75 dia	SAY	**10.00**		
19	25.6 UADD	TRAP				
	25.60.1	100mm inlet amd 100 outlet each		**38.00**		
20	23.21 UADD	PVC CONNECTION				
		1 wash basin, 1 urinal, 1 Wc, SINK		**31.00**		
21	23.10.	G.I. PIPES				
i)	23.10.1	15 mm dia. nominal bore		50.00		
ii)	23.10.2	20mmdia	Rm	26.00		
iii)	23.10.3	25mmdia	Rm	50.00		
iv)	23.10.4	32mm dia	Rm	20.00		
v)	23.10.5	40 mm dia. nominal bore	Rm	20.00		
vi)	23.10.6	50mm dia TankFilling and Terrace Ring	rm	200.00		
22	18.33 MPPWD	GATE VALVE				
	18.33.1	25 mm nominal bore				
				2	NOS	
	18.33.2	32 mm nominal bore.		2	NOS	
	18.33.4	50 mm nominal bore		2	NOS	

23	25.32 UADD	MIRROR	NOS	9.00		
24	17.75 MPPWD	soap dish staff toi +near wb		15.00		
25	17.73 MPPWD	towel rail staff toi		10.00		
26	25.34	Toilet paper holder	each	10.00		
		Sub Engineer **J.S**.C.L., Jabalpur		**Executive Engine**er J.S.C.L., Jabalpur		

			FORMAT - E	1	d

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

	S.No. of Project Sub Head :-	1			
	Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDIN			
	S.No. of Component :-	d			
	Name of Component :-	Internal Electrification			

Abstract Of Cost

S.N.	SOR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	UADD 1.4	WIRING IN CONCEALED RIGID PVC CONDUIT (HEAVY DUTY) SYSTEM WITH MODULER ACCESSORIES				
1)	1.4.1	Point wiring (excluding metallic switch box & sheet but including switches,sockes,lamp,holders,ceiling roses etc) with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI Marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit etc. as required as per specification for :-				
	1.4.1 .1	**Light Point/Fan Points.**				
		a) short point	each	38	394	14972.00
		b)medium point	each	166	689.00	114374.00
		c)long point	each	283	1027.00	290641.00
2)	**1.4.1. 2**	**3 pin 6 amp socket on separate board**				
		a) short point	each	8	439	3512
		b)medium point	each	12	734	8808
		c)long point	each	10	1072	10720
3)	**1.4.1 .3**	**Call Bell / Buzzer Points**				
		c) Long Point	meter	2.00	1039	2078.00
4)	9.4	Supplying and fixing as per specification Call bell / buzzer of approved make with necessary materials complete.				
	9.4.1	Buzzer	each	2	58	116
5)	**1.4.4**	**Twin control light Points**				
		c) Long Point	each	2	1118	2236

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	Name of Component :-		Internal Electrification			
6)	1.4.5	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. Socket outlet point with 1.5 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board	meter	70.00	224.00	15680.00
		POWER WIRING IN CONCEALED RIGID PVC CONDUIT (HMS) SYSTEM WITH COPPER CONDUCTOR				
7)	pg12 item 9.1 MPP WD	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. Socket Outlet Point With 4 Sq. mm. PVC insulated cable FR with copper multi strand conductor ISI marked in Concealed rigid P.V.C Conduit (HMS) ISI Marked of suitable size etc. with 16 Amp. F.T. Switch & Socket / S.S.Combined 6/16 Amp. of ISI Marked and 4 Sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit as per specification for				
		WITH MODULAR ACCESSORIES				
		b)long point	each	2.00	1930.00	3860.00
		c)extralong- I	each	12.00	2643.00	31716.00
		D) Extra long II	each	8.00	4542.00	36336.00
		d) Extra long III	each	2.00	5915.00	11830.00
		CIRCUIT WIRING				
8)	4.6 MPP WD	Wiring for circuit wiring with PVC insulated cable FR with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size etc. as required as per specification				
	a)	2x2.5 sq.mm circuit wiring	meter	850	117	99450
	b)	4x2.5	meter	690	176	121440
	c)	6x2.5	meter	825	225	185625
	d)	8x2.5	meter	575	277	159275

	Name of Component :-		Internal Electrification			
9)	4.3 UADD	Supplying and drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification.				
	4.3.2.1	1x2.5sq.mm circuit wiring	meter	2940.00	32.00	94080.00
	4.3.1.3	3x1.5mm	meter	2500	72	180000
10)		SUB MAINS IN SURFACE RIGID STEEL CONDUIT IN COPPER CONDUCTOR				
	5.1 UADD	Wiring for sub-mains with PVC insulated cable FR with copper multistrand conductor ISI marked in surface rigid steel ISI marked conduit of suitable size(conduit included) including connection painting etc ,as required as per specification				
	5.1.3	3 1/2 WIRE SUB-MAIN				
	5.1.3.5	3 x 16.0 + 1 x 10.0 sq mm cable in 32 mm conduit	meter	275.00	708.00	194700.00
	5.1.1	2 WIRE SUB-MAIN				
	5.1.1 .5	16.0 sq mm cable in 32 mm conduit	meter	225.00	458.00	103050.00
		SWITCH BOXES				
11)	2.9 UADD	Supplying and fixing of approved make modular type metal box with modular frame/ base plate and cover plate including fixing in concealed / surface excluding switch,socket etc. as required for:-				
i)		1 or2 MODULE	each	10.00	104.00	1040.00
ii)		3 MODULE	each	54.00	208.00	11232.00
iv)		6 MODULE	each	13.00	176.00	2288.00
v)		8/9 MODULE	each	34.00	202.00	6868.00
vi)		12 MODULE	each	39.00	255.00	9945.00
		COMPUTER AND TELEPHONE CABLES				
12)	MPP WD 38.6	Supply, fixing and testing of RJ 11 telephone jack modular (1 Module)	each	9.00	129.00	1161.00

	Name of Component :-		Internal Electrification			
13)	9.26 UADD	suppling and drawing following pair,0.5 Sq mm PVC Insulated copper conductor unarmoured telephone cable in existing surface / concealed ,steel / PVC Conduit as required.				
	9.28.3	(iii) 4 Pair	meter	675.00	36.00	24300.00
14)	MPP WD 38.4.2	Supply, Installation testing and commissioning of telephone Tag block Krone connector with enclosure and lock complete as mentioned below :-				
		20 Pair	each	1.00	273.00	273.00
17)	MPP WD38 .9	Supply, Installation testing and commissioning RJ - 45 Computer Jack cat 6 with shutter Modular (1Module)	each	8.00	491.00	3928.00
18)	MPP WD38 .12.2	Supply, Installation testing and commissioning of patch cord as mentioned below :-				
		CAT 6 RJ45 Patch Cord F/UTP 2 Mtr.	each	8.00	450.00	3600.00
19)	MPP WD 38.11	Suppling and drawing 4 pair shielded, 0.5 mm PVC.Insulated copper conductor un-armoured Cat-6 computer cable FR in existing surface / concealed ,steel / PVC. Conduit/Casing-N- Capping as required.		750.00	46.00	34500.00
20)	MPP WD38 .13	Supply, Installation testing and commissioning of 19" Modular Patch - 1 U Patch Panel 24, RJ 45 Cat-6 connector	each	1.00	10926.00	10926.00
21)	MPP WD38 .15.3	Supply, Installation testing and commissioning of wall mounting rack, for computer switches complete as mentioned below				
		12U cabinet 638X600X500, wall mounting with power supply and Fan etc.	each	1.00	17487.00	17487.00
		DISTRIBUTION BOARDS				

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	Name of Component :-		Internal Electrification			
22)	8.6 UADD	Supplying of approved make TPN MCB DB Metal Double Door IP 43 protection with provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoing inclusive of Bus bar, Neutral bar, Earth bar & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator):				
	8.6.5	8 way (8+24)	each	4.00	3170.00	12680.00
	27.8.1	4 WAY	EACH	2.00	2639.00	
	27.8.5	12 WAY	each	2.00	6552.00	
23)	UADD 8.4B	Supplying of **MCB Isolators** suitable for 240/415 Volts, 50 Hz AC supply with KA value rating 10 kA of approved make confirming to IS :13947-Part III : 1993 & IEC :60947- 3:2001 (without enclosures) :-				
	8.4.4	FOUR POLE MCB 100 Amps.	each	8.00	897.00	7176.00
24)	8.5 UADD	Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle , 10 kA Value AC supply confirming to IS : 8828 : 1996, IEC : 60898 :2002 but without enclosures :-				
	8.5.1.2	6 Amp to 32 Amp Rating	each	200.00	151.00	30200.00
25)		Fixing of MCB /MCCB/ Isolator				
i)	UADD 8.16	Fixing of MCB / Isolator SP/DP in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (Labour only)	each	24.00	8.00	192
26)	8.19 UADD	Labour charges for fixing sheet steel enclosures, MCB DB flush mounting type, as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc.complete :-				
	8.19.1	8.5(1) to 8.5(5), 8.6(1) to 8.6 (5) & 8.7(1)	each	8.00	[illegible]	1088

	Name of Component :-		Internal Electrification			
27)	9.15 UADD	Supplying, fixing,testing & commissioning wall / floor mounted LT Panel primer coated with two coat of enamel paint & provided with required gasket for dust/ vermin proof with degree of protection IP42 suitable for 415V 3 phase ,50 Hz ,4 wire system fabricated out of CRCA sheet upto 2 mm thick (1.6 mm for doors) with frame work of angle iron/ channel/ bolted type construction duly compartmentalised for incomer,bus section , outgoings ,cable alleys & CT,PT Ampere Meter ,Volt Meter , selector switches,Frequency Meter ,phase indicating lamps , energy Meter complete including cost of busbar supports, detachable cable gland plates,2 earthing terminals, internal wiring & fixing of separately supplied MCBs, MCCBs ,panel mounted Changeover switch/SFUs, etc. as required but excluding cost of busbar strips,Ampere Meter, Volt Meter, Selector switch as per approved design & specification	ITEM 27.3.6 PAGE 31			
		LT PANEL	KG	180.00	105.00	18900.00
28)	9.16 UADD	Supplying and fixing of LT Panel accessories of approved make in existing LT Panel including connections etc.as required as per spececification				
i)	9.16.1	Digital ampere meter with CTs with selector switch	each	1.00	2140.00	2140.00
ii)	9.16.2	Digital volt metere with selector switch &HRC sefu	each	1.00	2300.00	2300.00
iii)	9.16.5	Aluminium bus bar strips with PVC sleeves		25.00	190.00	4750.00
iv)	9.16.6	LED lamp indicater	each	11.00	220.00	2420.00
29)	8 UADD	Supplying of ISI Marked and approved make of Moulded Case Circuit Breaker (MCCB) suitable for 3 phase,3 pole, Case Circuit Breaker (MCCB) suitable for 3 phase,3 pole,50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS – 8828				
i)	8.2	MCCB with Breaking Capacity 35 KA at 415 V			A Wallabh	

	Name of Component :-		Internal Electrification			
	8.2.5	Current Rating -500/630 Amps & Adjustable: 70% -100% thermal	each	1.00	19006.00	19006.00
ii)	8.1	MCCB with Breaking Capacity 25 KA at 415 V				
	8.1.2	Current Rating -125 Amps & 780% -100% adjustable	each	3.00	5674.00	17022.00
iii)	mpp wd 27.1.1.1	MCCB with Breaking Capacity 10 KA at 415 V				
		Current Rating -25 to100 Amps	each	13.00	1693.00	22009.00
30)	11.3 UADD	Earthing with G.I. Earth plate 600mm X 600mm X 6mm thick including accessories and providing masonary encloser in cement mortor, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 Metre long etc. (but without charcoal or coke and salt) complete as required.	Each	2.00	2314.00	4628.00
31)	11.5 UADD	Add Extra for using salt and charcoal / coke for G.I. Plate or Copper plate earth electrode Aasrequired including excavationand refilling	Each	2.00	472.00	944.00
32)	11.9 UADD	Supplying and laying 25mm X 6mm G.I. strip at 0.5 Metre below ground level as strip earth electrode including soldering etc. as required.	mtrs	125.00	70.00	8750.00
34)	9.32 UADD	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS :374/1979 with up to date ammendments.				
		Ceiling Fan (5 star & ISI)-1200 mm Sweep	Each	37.00	1817.00	67229.00

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	Name of Component :-		Internal Electrification			
35)	9.31 UADD	Supplying and fixing of approved make step type Modular electronic fan regulator including connection etc. as required on existing board.				
	1	100 watt (2 module)	each	37.00	545	20165
36)	10.11 UADD	Supplying and fixing down rod of MS pipe for ceiling fan including threading, painting, making holes etc. as required complete :-	meter	37.00	88	3256
37)	10.6.2 UADD	Supplying and fixing fan clamps of 16 mm dia steel bar as per specification complete For R.C.C. Slabs / Beams	each	37.00	22	814
38)	9.36 UADD	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.				
		Exhaust fan 300mm sweep 900RPM	Each	7.00	2573.00	18011.00
39)	12.13 UADD	Providing recess in brick wall suitable for erection of exhaust fan up to 450 sweep complete with grouting of nut bolts, plastering and colour wash to match the colour of wall				
	12.13.1	For brick wall thickness up to 9"	each	7.00	229	1603

	Name of Component :-		Internal Electrification			
40)	UADD 9.57	Supplying, fixing & testing of approved make of T- 5 lamp channel luminaire with plastic extruded housing with in-built electronic control gear with decorative end caps with necessary materials connection etc. complete as required (with lamp)	each	9.00	744	6696.00
41)	9.23 UADD	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				
	9.23.5	18 watt	each	10	204	2040
42)	MPP WD SOR	Supplying and fixing PVC conduit ISI marked along with the accessories in concealed system etc. as required				
	15.1	PVC . Conduit 20 mm (HMS)	meter	2500.00	39	975
	15.2	25mm conduit (HMS)	meter	100.00	51	51
	15.3	32mm Conduit (HMS)	meter	500.00	72	360
43)	31.26 MPP WD	Supplying and fixing surface mounting LED down lighter, LED of 1 to 3 W each assembled on single MCPCB, having color temp 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>80lm/W. LED driver PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer mandatory. i/c connection wire, testing etc. to complete the job. 2 Yrs Guarantee certificate from manufacturer.				
	31.26.2	15 W , 180/200mm	NOS	21.00	3833	804.93

	Name of Component :-		Internal Electrification			
44)	31.27 MPP WD	Supplying and fixing recessed mounting LED down lighter, LED of 1 to 3 W each assembled on single MCPCB, having color temp 6500K & having 50000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy>80lm/W. LED driver PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Housing made of CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory. i/c connection wire, testing etc. to complete the job. 2 Yrs Guarantee Certificate from manufacturer.				
	31.27.3	15 W, 180/200mm	each	142.00	2763	392346
45)	31.2 MPP WD	Supplying and fixing flood light with high power LED of 1 to 3 W each assembled on single MCPCB, system lumens output with efficacy>90 lm/W. luminiare having color temp 6500K & 50000 burning hrs life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF 0.95 & surge protection 3KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer manadatory i/c connection lead, testing etc to complete the job. 2 Yrs Guarantee certificate from manufacturer.				
	31.30.4	90 W	each	4.00	25378	101512
	31.30.6	150W	each	33.00	34237	1129821
46)	31.7 MPP WD	Supplying, fixing and testing of approved make modular integral step / skirt LED light suitable for 3 module box and plate including fixing on wall as required, with necessary material complete	Each	118	668	78824

	Name of Component :-		Internal Electrification			
47	29.30	Supplying and fixing of approved make electronic dimmer /regulator including connection etc. as required on existing board				
	29.30.2	1000 Watt	EACH	10	390	3900

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	Name of Component :-		Internal Electrification			
48	43.B.17	Supply Installation, testing & Commissioning of Diesel Generating Set Three phase, water cooled with AMF control panel. 250KVA 415V.	SET	1	2592075	2592075
		INVERTER				
49	NSOR 1	Pure Sinewave type inverter, Capacity 5700 Watts, Battery Voltage (V) 72V DC (External 6 Batteries Required), Power Output 4560, UPS Warranty 24 Months On-site, UPS Topology Offline/Standby with DSC (Micro Controller Based Design)	EACH	1	29200	29200
	NSOR 2	Lead acid type Inverter Battery 150 Ah with Onsite warranty of 24 Months having 100% Hadi Tubular and PE Envelope Seperator Technology with Ceramic Water Level Indicator	EACH	6	12500	75000
		PUMPS FOR WATER TANK AND TUBEWELL				
		pump for water tank				
52	39.1 MPP WD	Supplying & Installation of approved Make required capacity 3 phase, 50 Hz, 415V, Open Well Submersible pump, with Control Panel Starter with Dry Run Protection, single phase preventer, connections, etc. as required as per specifications but excluding Pipe and connection cable.				
	30.10.1	3.0 H.P. Head Mt 15-24, Discharge LPM 615-195	Each	2	24724	49448.00
53	39.1 MPP WD	Supplying & Installation of required capacity of singlephase, 50 Hz,220V, deep well submersible pump StainlessSteel body, as per IS of approved Make, suitable for 4"/6 "tube well with Control Panel Starter suitable for Submersible pump with dry run protection, connections, including clamps, bore cap etc. as required as per specifications but excluding Pipe, SS/Nylon wire rope and connection cable.				
	39.1.4.3	3 H.P. with 20 to 22 stages, Head Mt 167-51, Discharge LPM 25-90	each	13.00	34800.00	452400

	Name of Component :-		Internal Electrification			
54	39.3 M	Supplying and laying of submersible flat cable ISI marked 3 core copper wire of suitable size with proper clamping of approved make.				
		4.0 Sq.mm multi strand	meter	250	185	46250
						7039033
		Sub Engineer J.S.C.L., Jabalpur		Executive Engineer J.S.C.L., Jabalpur		

FORMAT - F 1 d

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :- 1

Name of Project Sub Head :- Cost of construction of AUDITORIUM BUILDING

S.No. of Component :- d

Name of Component :- Internal Electrification

QUANTITY SHEET

Location and number of Switch Boards - G.F.

SN	SB	LOCATION	NOS OF S.B.	CEILING CFL	WALL CFL	T5 LIGHT	NIGHT LAMP	FOCUS LIGHT	WALL LIGHT	HALOGEN	STAGE LIGHTS	BOLLARDS LIGHTS	WALL FAN	FAN	EX FAN	WALL SCONCES	SAME BOARD PLUG	EXTRNAL LIGHT	PLUG ON SEPARATE	POWER ON SEPARATE	TEL	COMP	TOTAL PT ON ONE S.B.	TOTAL MODULES
		LEVEL +1000																						
1	SB	SHOP 1	1	3										1			1		1	2			5	9
2	SB	SHOP 2	1	5										1			1		1	2			7	11
3	SB	PROJECTION ROOM	1			1								1			1		2	1			3	7
4	SB	LIGHT And SOUND ROOM	1			1								1			1		2	1			3	7
5	SB	CCTV CONTROL	1	3										2			1						6	12
6	SB	CORIDDOR (LIGHT SERVICE)	1	4													1						5	7
7	SB	CORRIDOR 2	1	4													1						5	7
8	SB	CORRIDOR 3	1	6													1						7	9
9	SB	VIP WAITING	1	10																			10	10
10	SB	VIP WAITING	1											3						2			3	9
11	SB	LOBBY	1	2										1			1		1	1			4	8
12	SB	TOILET	1	2													1						3	5
13	SB	WAITING	1											2			1		1				3	9
14	SB	WAITING					6																6	6
15	SB	ENTRY (1)	1	1													1						2	4
16	SB	STAIRCASE	1	2													1						3	5
17	SB	CORRIDOR (INFRONT OF WAITING)	1	3													1		1				4	6
18	SB	ENTRY (2)	1	2													1						3	5
19	SB	SERVICE ROOM	1		1	3									1		1						6	8
20	SB		1											3									3	9
21	SB	AHU	1			2								1	1		1		1	1			5	9
		SUBTOTAL	**20**	**47**	**1**	**7**	**6**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**2**	**0**	**17**	**0**	**10**	**10**	**0**	**0**	**96**	
		LEVEL -2100																						
22	SB	**At ramp**	**1**	**4**												4	1						9	11

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Name of Component :-										Internal Electrification														
23	SB	**At ramp**	**1**	**3**												4	1						8	10
24	SB	ENTRANCE COURT	1	3			3										1						7	9
25	SB	ENTRANCE COURT	1				4										1						5	7
26	SB	CORRIDOR	1	8																			8	8
27	SB	CORRIDOR	1	6				3									1						10	12
28	SB	CORRIDOR	1	6				2									1						9	11
29	SB	CORRIDOR	1					4									1						5	7
30	SB	CORRIDOR	1					4									1						5	7
31	SB	CORRIDOR	1	6																			6	6
32	SB	CORRIDOR	1	6				3									1						10	12
33	SB	TICKET	1	3										2			1						6	12
34	SB	STORE	1		1												1						2	4
35	SB	GUARD	1	2									2				1						5	7
36	SB	OFFICE WAITING	1	3										1			1			2			5	9
37	SB	PANTRY	1	0		1											1						2	4
38	SB	CHAMBER	1	2										1			1			2			4	8
39	SB	OFFICE 1	1	2										1			1			2			4	8
40	SB	OFFICE 2	1	5													1						6	8
41	SB	OFFICE 2	1											2			1		3	1			3	9
42	SB	AHU	1	1		1								1			1			1			4	8
43	SB	TOI (M)	1	6											2		1						9	11
44	SB	TOI (W)	1	5											2		1						8	10
45	SB	ROOM	1	1											1		1						3	5
46	SB	OAT LANDING	1	9													1						10	12
47	SB	OAT LANDING	1	0			8										1						9	11
48	SB	OAT LANDING	1	0			12																12	12
49	SB	OAT LANDING	1	0			12																12	12
50	SB	OAT LANDING	1	0			7										1						8	10
51	SB	OAT LANDING	1	1					6								1						8	10
52	SB	OAT LANDING	1	0						6							1		4	2			7	9
53	SB	ENTRANCE NEAR OAT (2)	1									4				6							10	10
54	SB	CORRIDOR	1	7										1									8	10
55	SB	CORRIDOR	1	2										2			1						5	11
55	SB	CORRIDOR	1	2										3									5	11
56	SB	TOILET (W)	1	4				2									1						7	9
57	SB	GREEN ROOM (1)	1	6													1						7	9
58	SB	GREEN ROOM (1)	1	0										3			1						4	12
59	SB	STORE	1	0										1			1						2	6
60	SB	STAIRCASE	1	2													1						3	5

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Name of Component :-											Internal Electrification													
61	SB	GREEN ROOM (2)	1	8													1						9	11
62	SB	GREEN ROOM (2)	1	0										2			1		1				3	9
63	SB	GREEN ROOM (3)	1	4										1			1		1				6	10
64	SB	TOILET (M)	1	6				2											1				8	8
65	SB	AUDI CORRIDOR	1	4															1				4	4
66	SB	AUDI CORRIDOR	1	3																			3	3
		SUBTOTAL	**46**	**130**	**1**	**2**	**46**	**20**	**6**	**6**	**0**	**4**	**2**	**21**	**5**	**14**	**36**	**0**	**11**	**10**	**0**	**0**	**293**	
		AUDITORIUM																						
67	SB	AUDITORIUM STAGE	1							2	5						1		4	4	1	2	8	10
69	SB	AUDI AISLE	1				9										1						10	12
70	SB	AUDI AISLE	1				9										1						10	12
71	SB	AUDI AISLE	1				9										1						10	12
72	SB	AUDI AISLE	1				9										1						10	12
73	SB	AUDI AISLE	1	7						2							1						10	12
74	SB	AUDI AISLE	1	5						4							1						10	12
75	SB	AUDI AISLE	1	1						5							1		1				7	9
76	SB	AUDI AISLE	1	6													1		4				7	9
		SUBTOTAL	**9**	**19**	**0**	**0**	**36**	**0**	**0**	**13**	**5**	**0**	**0**	**0**	**0**	**0**	**9**	**0**	**9**	**4**	**1**	**2**	**82**	
		ROOF																						
78	SB	NEAR THE RAMP (AT +1200)	1				2					7					1						10	12
79	SB		1				2					7					1						10	12
80	SB		1									9					1						10	12
81	SB		1									9					1						10	12
82	SB		1									9					1						10	12
83	SB		1									9					1						10	12
84	SB		1									9					1						10	12
85	SB		1									9					1						10	12
86	SB		1				8																8	8
87	SB		1				9																9	9
88	SB		1				9																9	9
		SUBTOTAL	**11**	**0**	**0**	**0**	**30**	**0**	**0**	**0**	**0**	**68**	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**0**	**0**	**0**	**106**	

		LOCATION	NOS OF S.B.	CEILING CFL	WALL CFL	T5 LIGHT	NIGHT LAMP	FOCUS LIGHT	WALL LIGHT	HALOGEN	STAGE LIGHTS	BOLLARDS LIGHTS	WALL FAN	FAN	EX FAN	WALL SCONCES	SAMEBOARD PLUG	EXTRNAL LIGHT	PLUG ON SEPARATE	POWER ON SEPARATE	TEL	COMP	TOTAL PT ON ONE S.B.	
		TOTAL	**86**	**196**	**2**	**9**	**118**	**20**	**6**	**19**	**5**	**72**	**2**	**37**	**7**	**14**	**70**	**0**	**30**	**24**	**1**	**2**	**577**	

POINT WIRING

LEVEL +1000

	SB	LOCATION	NO. OF S.B.	TOT. POINT ON ONE S.B.			SHORT	MED	LONG															
1	SB	SHOP 1	1	4			1	2	1															
2	SB	SHOP 2	1	6			1	3	2															
3	SB	PROJECTION ROOM	1	2				1	1															
4	SB	GHT And SOUND ROO	1	2					2															
5	SB	CCTV CONTROL	1	5				2	3															
6	SB	)RIDDOR (LIGHT SERVI	1	4				1	3															
7	SB	CORRIDOR 2	1	4				1	3															

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Name of Component :-										Internal Electrification													
8	SB	CORRIDOR 3	1	6				2	4														
9	SB	VIP WAITING	1	10			1	5	4														
10	SB	VIP WAITING	1	3				1	2														
11	SB	LOBBY	1	3				1	2														
12	SB	TOILET	1	2				1	1														
13	SB	WAITING	1	2				1	1														
14	SB	WAITING		6				2	4														
15	SB	ENTRY (1)	1	1					1														
16	SB	STAIRCASE	1	2				1	1														
17	SB	IDOR (INFRONT OF WA	1	3				1	2														
18	SB	ENTRY (2)	1	2				1	1														
19	SB	SERVICE ROOM	1	5				2	3														
20	SB	0	1	3				2	1														
21	SB	AHU	1	4				2	2														
		TOTAL	**20**	**79**			3	32	44														
		LEVEL -2100																					
	SB	**LOCATION**	**NO. OF S.B.**	**TOT. POINT ON ONE S.B.**			**SHORT**	**MED**	**LONG**														
23	SB	At ramp	1	7			1	2	4														
24	SB	ENTRANCE COURT	1	6			1	2	3														
25	SB	ENTRANCE COURT	1	4			1		3														
26	SB	CORRIDOR	1	8				3	5														
27	SB	CORRIDOR	1	9				4	5														
28	SB	CORRIDOR	1	8			2	3	3														
29	SB	CORRIDOR	1	4				1	3														
30	SB	CORRIDOR	1	4				2	2														
31	SB	CORRIDOR	1	6			1	2	3														
32	SB	CORRIDOR	1	9			2	3	4														
33	SB	TICKET	1	5				2	3														
34	SB	STORE	1	1					1														
35	SB	GUARD	1	4				1	3														
36	SB	OFFICE WAITING	1	4				2	2														
37	SB	PANTRY	1	1					1														
38	SB	CHAMBER	1	3				1	2														
39	SB	OFFICE 1	1	3				1	2														
40	SB	OFFICE 2	1	5				2	3														
41	SB	OFFICE 2		2				2	0														
42	SB	AHU	1	3				1	2														
43	SB	TOI (M)	1	8			1	2	5														
44	SB	TOI (W)	1	7			2	2	3														
45	SB	ROOM	1	2					2														
46	SB	OAT LANDING	1	9			2	4	3														
47	SB	OAT LANDING	1	8			1	3	4														
48	SB	OAT LANDING	1	12			2	**3**	7														
49	SB	OAT LANDING	1	12			1	3	8														
50	SB	OAT LANDING	1	7			1	**2**	4														
51	SB	OAT LANDING	1	7			1	2	4														
52	SB	OAT LANDING	1	6			1	**2**	3														
53	SB	NTRANCE NEAR OAT (2	1	10			1	**5**	4														
54	SB	CORRIDOR	1	8			1	2	5														
55	SB	CORRIDOR	1	4			1	**2**	1														
56	SB	TOILET (W)	1	6				2	4														
57	SB	GREEN ROOM (1)	1	6			1	2	3														

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Name of Component :-										Internal Electrification													
58	SB	GREEN ROOM (1)	1	3			1		2														
59	SB	STORE	1	1					1														
60	SB	STAIRCASE	1	2					2														
61	SB	GREEN ROOM (2)	1	8			1	2	5														
62	SB	GREEN ROOM (2)	1	2					2														
63	SB	GREEN ROOM (3)	1	5				1	4														
64	SB	TOILET (M)	1	8			1	2	5														
65	SB	AUDI CORRIDOR	1	4			1	2	1														
66	SB	AUDI CORRIDOR	1	3				1	2														
		TOTAL	**42**	**237**			**27**	**76**	**134**														
		AUDITORIUM																					
	SB	**LOCATION**	**NO. OF S.B.**	**TOT. POINT ON ONE S.B.**			**SHORT**	**MED**	**LONG**														
67	SB	AUDITORIUM STAGE	1	7			1	2	4														
69	SB	AUDI AISLE	1	9			2	4	3														
70	SB	AUDI AISLE	1	9				2	7														
71	SB	AUDI AISLE	1	9			1	3	5														
72	SB	AUDI AISLE	1	9				3	6														
73	SB	AUDI AISLE	1	9			1	4	4														
74	SB	AUDI AISLE	1	9			1	3	5														
75	SB	AUDI AISLE	1	6			1	2	3														
76	SB	AUDI AISLE	1	6			1	3	2														
		TOTAL	**8**	**73**			**8**	**26**	**39**														
		ROOF																					
	SB	**LOCATION**	**NO. OF S.B.**	**TOT. POINT ON ONE S.B.**			**SHORT**	**MED**	**LONG**														
78	SB		1	9				**2**	7														
79	SB		1	9				**4**	5														
80	SB		1	9				**3**	6														
81	SB		1	9				**4**	5														
82	SB		1	9				**3**	6														
83	SB		1	9				**3**	6														
84	SB		1	9				**2**	7														
85	SB		1	9				**2**	7														
86	SB		1	8				**2**	6														
87	SB		1	9				**4**	5														
88	SB		1	9				**3**	6														
87		**TOTAL**	**10**	**89**			**0**	**32**	**66**														
		TOTAL	**80**	**478**			**38**	**166**	**283**														
2)		**PLUG POINT ON SEPARATE BOARD**	no of rm		no of points	Total		**SH**	**MED**	**LONG**													
		TOTAL				**30**		**8**	**12**	**10**													

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Name of Component :-										Internal Electrification														
3		CALL BELL				2																		
4		SUPPLY OF UZZER				2																		
5		TWIN CONTROL LIGHT POINTS				18																		
6		PLUG POINT ON SAME BOARD				70																		
7		Power Point ON SEPARATE BOARD				TOTAL	LONG	EX LONG 1	EX LONG 2	EX LONG 3														
						24	**2**	**12**	**8**	**2**														
10)		MODULAR SWITCH																						
		2 MODULE		TOTAL		EX FAN	TEL	COMP																
				10		7	**1**	**2**																
		3 MODULE		TOTAL			PLUG ON SEPARAT			POWER ON SEPARAT														
				54			30			24														
		6 MODULE		**13**																				
		8/9 MODULE		**34**																				
		12 MODULE		**39**																				
22)	DB	TPN	:																					
				7	6 way tpn		nos																	
				1	4 WAY TPN														0					
23)	MCB	FOUR POLE	:	32																				
24)	MCB	6-32AMP	:	4X12X3		=	168																	
				4X4X3		=	16																	
							184		SAY	200														
30)		EARTH PITS	:		2																			
34)		FANS			33																			
38)		EX FAN HEAVY DUTY			7																			
40)		T5	:		**9**																			
41)		WALL CFL			7	18 W																		
43)		SURFACE MOUNTED			5	ENTRY	OUTSIDE			5+10OAT SIDE														
					8	OAT																		
					2	STAIRA																		
					15																			
44)	31.3	HALL DOWNLIGHTER			35	(15W)	HALL					LD 5	LD 5	LD 56 OF WIPRO										
					9		GREEN RM1																	
					6		TOI																	
					6		GREEN RM2																	
					6		TOI																	
					4		RM																	
					26		PRE FUNCTION																	
					12		PUB TOI																	
					17		OFFICES																	
					21		UPPER FL																	
					142																			
45		STAGE LIGHTS			4	NOS																		
		FOH			33	NOS																		
46		STEP LIGHTS			48	OAT																		
					8	RAMP																		
					36	AUDI																		

Name of Component :-										Internal Electrification														
					9	BACK SIDE																		
					101																			
		RATE ANALYSIS OF INVERTER																						
49	nsor 1	Pure Sinewave type inverter, Capacity 5700 Watts, Battery Voltage (V) 72V DC (External 6 Batteries Required), Power Output 4560, UPS Warranty 24 Months On-site, UPS Topology Offline/Standby with DSC (Micro Controller Based Design)																						
		Details of cost for one piece 3.5 KVA Inverter								Metre	1	19810		0		19810								
		ADD GST @								12.00%						2377								
		Total amount of basic market rates											(A)			22187								
		Carriage of materials and Fixing Charge								L.S.						2500								
		ADD GST @								18.00%						450								
		Total amount of rates DSR 2014 items.											(B)			2950								
		Total amount of materials and labour (A) + (B)=														25137								
		Add water charges @ 1%														251								
																25389								
		Add 15% C.P & O.H														3808								
		Total														29197								
		Say														29200								
50	nsor 2	Lead acid type Inverter Battery 150 Ah with Onsite warranty of 24 Months having 100% Hadi Tubular and PE Envelope Seperator Technology with Ceramic Water Level Indicator																						
		Details of cost for one piece 3.5 KVA Inverter								Metre	1	9080		0		9080								
		ADD GST @								12.00%						1090								
		Total amount of basic market rates											(A)			10170								
		Carriage of materials and Fixing Charge								L.S.						500								
		ADD GST @								18.00%						90								
		Total amount of rates DSR 2014 items.											(B)			590								
		Total amount of materials and labour (A) + (B)=														10760								
		Add water charges @ 1%														108								
																10867								
		Add 15% C.P & O.H														1630								
		Total														12497								
		Say														12500								
		Sub Engineer J.S.C.L., Jabalpur								Executive Engineer J.S.C.L., Jabalpur														

M/S A. WALLABH AND WALLABH ASSOCIATES
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		FORMAT - E		1	E
DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.					
	S.No. of Project Sub Head :-	1			
	Name of Project Sub Head :-	Cost of construction of AUDITORIUM			
	S.No. of Component :-	E			
	Name of Component :-	Fire Suppression System			

Fire Suppression System

S.No.		**Description**	**Unit**	**RATE (Rs)**	**QTY**	**AMOUNT**
1	NSOR1	Providing and fixing Single headed, Stainless Steel SS 304, ISI marked oblique pattern hydrant landing valve with 80 mm dia flanged inlet and 63 mm dia instantaneous type female outlet complete with gunmetal cap and G.I. chain, twist release type plug and all accessories as per 1S:5290-1983 (Type 'A')	Each	7435.00	6	51858
2	26.12 MPPWD	Supplying and fixing first -Aid hose reel with MS construction spray painted in post office red, confirming to IS 884 with upto date amendments, complete with the following as required, a) 20/30/40m long 20mm (nominal internal) dia water hose thermoplastic (textile reinfirced) type -2 as per IS 12585b) 20mm (nominal internal) dia gun metal globe valve and nozzle.c) Drum and brakets for fixing the equipments on wall.d) Connections from riser with 40 mm dia stop valve (gun metal) and M.S. pipe	Each	6064.00	3	18192
3	26.11 MPPWD	Supplying and fixing 63mm dia, 15 mtr long RRL hose pipe with 63mm dia male and female gun metal couplings duly binded with GI wire, rivets etc. confirming to IS 636 (type-A)as required.	Each	7077.00	6	42462
4	NSOR2	Providing and fixing Controlled Percolating (CP) Hose ISI marked (IS:8423) 63 mm dia x 15 m long complete with instanteneous type gunmetal / SS, 63 mm dia, ISI marked Male & Female couplings (IS:903) bound and rivetted to hose pipe with copper rivets and 1.5 mm copper wire.	Each	6930.00	6	41664

	Name of Component :-		Fire Suppression System			
5	26.15 MPPWD	Providing and fixing 63mm gun metal branch pipe with 20 mm (nominal internal diameter) size gun metal nozzle conforming to IS 903, suitable for instaneous connection to interconnect hose pipe coupling as required.	Each	2510.00	6	15060
6	NSOR3	Providing and fixing M.S. fire hose shaft door with frame fabricated from angle iron frame 40 x 40 x 6 mm thick, angle iron shutter 25 x 25 x 4 mm thick, 16 g M.S. sheet of fully welded construction with hinged double front door with locking arrangement and butt hinges, 15 x 3 mm lugs 10 cm long (6 Nos) embedded in cement conc. blocks (1: 3: 6 mix) or with rawl plug and screws/bolts and nuts as required, partly glass door 4 mm thick approved by local fire aurthority, painted with one coat of primer, stove enamelled fire red finished, "Fire Hose" written on front, suitable to accommodate 2 Nos single headed Hydrant landing valve, 1 fire hose reel, 2 nos.15m long 63mmdia hose,1-branch pipe, 1 fire-man's axe, including suitably mounted on a raised masonry platform as required. (Approx.size 0.9m x 1.5m)	Each	13202.00	3	43188
7	26.13 MPPWD	Supplying and fixing hose cabinet of size 900mmx600mmx500mm made of 2 mm thick MS sheet with 6 mm thick glazed glass doors i/c necessary locking arrangement suitable to accommodate external hydrant with butterfly valve 2 nos. 15mtr. Long hose pipe, 1 no	Each	16173.00	3	48519
8	NSOR4	Air cushion tank 250 mm dia. x 1.2 M high with dished top, made of minimum 6 mm thick M.S. pipe/plate complete with 25 mm dia. Brass Air Valve (Ball valve, pressure guage type), 25 mm dia. Stop with brass stop cock,nipple, tees, elbow and all accessories as required incl. fixing brackets. On Hydrant and Sprinkler Risers	Each	8066.00	3	26790

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	Name of Component :-		Fire Suppression System			
9	26.3 MPPWD	Providing laying, testing and commissioning of class 'C' heavy duty MS pipe confirming to IS 3589/1239 including fittings like elbows, tees, flanges, tapers, nuts bolts, gasket etc. fixing the pipe on the wall/ceiling with suitable clamps and painting with				
9.1	23.9	25 mm dia	RM	310.00	160	49600
9.2	23.8	32 mm dia	RM	391.00	15	5865
9.3	23.7	40 mm dia	RM	443.00	70	31010
9.4	23.6	50 mm dia	RM	588.00	50	29400
9.5	23.5	65 mm dia	RM	743.00	15	11145
9.6	23.4	80 mm dia	RM	921.00	20	18420
9.7	23.3	100 mm dia	RM	1328.00	30	39840
9.8	23.2	150 mm dia	RM	1916.00	75	143700
10	26.1 MPPWD	Providing laying, testing and commissioning of'C' class heavy duty MS pipe confirming to IS 1239/3589 underground i/c fittings like elbows, tees, flanges, tapers, jointing with nuts bolts, gaskets and welding etc. underground including excavation and providing cement concrete blocks as supports, at prescrived intervals and anticorrosive treatment with coaltar/asphalt tape as per IS 10221, with 4mm thick fiber reinforced tape and 12mm overlap and refilling the trench etc. of the following sizes complete as directed by Engineer-in-Charge. 26.1.1 200mm dia				
10.3	26.2.2	150 mm dia	RM	2230.00	25	55750
11	NSOR5	Supply Installation and testing C.I. Dual plate wafer check valve, spring loaded class (PN 1.6), ductile iron disc, 416 SS stem, EPDM lining, S.Steel spring complete with 2 Nos. matching flanges, rubber insertion, nuts, bolts and washer etc. of following sizes.				
11.3		150 mm dia	Each	6521.00	4	24200
11.5		80 mm dia	Each	1738.00	3	4830

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	Name of Component :-		Fire Suppression System			
12	NSOR6	Supply Installation and testing cast iron wafer type Butterfly valves Class (PN 16) SS 304 Disc, Nitrile rubber lining (lever operated upto 150 mm and gear operated for 200mm and more) complete with 2 Nos matching flanges rubber insertion, nuts, bolts and washer etc. of following sizes				
12.4		150 mm dia nominal bore	Each	5823.00	6	32412
13	NSOR7	Providing and fixing Forged Brass Ball valve with SS 304 ball, SS stem, renewable PTFE seat, teflon gland packing, stanmdard bore, lever operated, screwed female threads, body and seat test pressure 500 Psig. Complete in all respects.				
13.2		c) 25 mm dia nominal bore	Each	880.00	6	4890
14	NSOR8	Providing and fixing dial type pressure gauge including making connection with ball valve at each hydrant station, complete in all respects. Dial dia 100 mm, calibration 0-15 kg/sq cm. Valve shall be paid separately.				
14.1		a) 15 mm dia nominal bore	Each	742.00	3	2061
15	NSOR9	Providing and fixing standard fireman's axe with heavy insulated rubber handle conforming to IS: 926 complete.	Each	636.00	3	1764
17	26.17 mppwd	Providing and fixing Two Way Fire Brigade connection of CI body with 2 nos Gun Metal male instantaneous inlet coupling complete with cap chain as required. For 150 dia MS pipe connection, confirming to IS:904-1983 as required	Each	6000.00	3	18000
II		**SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF :-**				
18	26.19 MPPWD	Providing fixing testing and commissioning of 15 mm size quartzoid bulb type sprinklers, set to operate at 68/79 degree Centigrade. Pendent type/ upright type/ side wall type with required accessories complete as directed by Engineer-in-charge.	Each	415.00	131	54365

	Name of Component :-		Fire Suppression System			
20	26.24 MPPWD	Providing and fixing flow switches in 100/150mm dia MS pipe.	Each	3525.00	1	6954
21	NSOR10	Providing and fixing 25 mm dia inspecting & testing assembly with gunmetal valve, gunmetal sight glass, bypass valve & connected to drain line.	Each	6220.00	1	5746
22	NSOR11	Supply Installation and testing forged brass Ball valve with hard chrome plated ball inside PTFE (Teflon) seat & ring with chrome plated centre handle with female BSP threads suitable for 15 kg/sq cm. complete in all respects.				
22.1		25 mm dia nominal bore	Each	880.00	1	815
23	NSOR12	Providing and fixing dial type pressure gauge with ball valve and pipe at hydrant station, complete in all respects. Dial dia 100 mm, calibration 0-15 kg/sq cm. Valve shall be paid separately.				
23.1		a) 20 mm dia nominal bore	Each	780.00	1	687
III						
24		SUPPLY, INSTALLATION, TESTING. & COMMISSIONING OF:				
	NSOR13	Electrical Motor Driven Fire Pumping set suitable for automatic operation consisting of the following as per the specifications.				
		a) Horizontally mounted, centrifugal type single/ multi stage fire pump having cast iron body, bronze impeller, stainless steel shaft & capable of delivering 900 LPM against a total head of 35 M, pressure gauge with GM cocks on the delivery side including bypass arrangement (with 50 valve and upto 5M G.I. Medium pipes) for periodical testing of the working of the testing of the working of the pumping set as per TAC rules.				

	Name of Component :-		Fire Suppression System			
		b) Squirrel cage induction motor totally enclosed fan cooled type suitable for 415 Volts +_ 15%, 3 phase, 50 HZ A.C. supply 1450 / 2900 RPM of suitable capacity including electric power contol panel with all accessories for auto operation of pump e.g., single phase preventor, rotary switch, ampere meter, volt meter , starter of suitable capacity, pressure switches to start the pump at predetermined pressure, necessary power cable from panel to motor (approx. 12.5 HP or as required) for the above pump coupled with flexible copuling including earthing as per relevant Indian Standard & specifications.				
		c) Common bed plate for mounting Pump and Motor fabricated of Motor fabricated of suitable M.S.Channel as per manufacturer*s recommendations.				
		d) Suitable RC.C Pump-Foundations as per manufacturer's design and 4 nos. Dunlop (cushy foot) heavy duty Antivibration mounting pads. (for Sprinkler down comer on terrace).	Set	127385.00	1	126427
25	NSOR14	Providing and fixing reselient rubber neoprene lined single arch vibration eliminators suitable for raw water upto 45 deg. C. temperature working pressure 7 kg and test pressure 14 kg per sq. cm.				
25.1		b)100 mm dia	Each	4485.00		
25.2		c)150 mm dia	Each	6189.00	2	12292
25.3		d)200 mm dia	Each	8602.00		
26	NSOR15	Supplying and fixing air vessel made of 250 mm dia, 8mm thick MS sheet, 1200 mm. in height with air release valve on top and flanged connection to riser, drain arrangement with 25mm dia gun metal wheel valve, with required accessories, pressure gauge a	Each	11744.00	1	11744

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	Name of Component :-		Fire Suppression System			
28	26.23 MPPWD	Providing and fixing of carbon-di-oxide type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage				
28.1	26.23.1	a) Capacity 4.5 Kg	Each	11351.00	2	22702
29	26.24 MPPWD	Providing and fixing of ABC Powder type fire extinguishers consisting of welded M.S. cylinderical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms				
29.1	26.24.1	Capacity 5.0 Kg.	Each	7301.00	7	51107
30	NSOR16	DIESEL ENGINE DRIVEN PUMP 2850 LPM 75 MTR. HEAD	Each	585875.00	1	585875
31	NSOR17	JOCKEY PUMP 180 LPM AT 75 MTR. HEAD	Each	92940.00	1	92940
		Total C/F to Summary				**1732274**
		Sub Engineer J.S.C.L., Jabalpur		Executive Engineer J.S.C.L., Jabalpur		

		FORMAT - E		1	E	

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

	S.No. of Project Sub Head :-		1				
	Name of Project Sub Head :-		BUILDING				
	S.No. of Component :-		E				
	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				

ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS

Item No.	Description	Unit	Qty	Rate	Less Discount in %	Amount	Referenc
1	Providing and fixing Single headed, Stainless Steel SS 304, ISI marked oblique pattern hydrant landing valve with 80 mm dia flanged inlet and 63 mm dia instantaneous type female outlet complete with gunmetal cap and G.I. chain, twist release type plug and all accessories as per 13:5290-1983 (Type 'A')						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost for one piece						Similar Item. No 18.17.6 of CPWD Rate Analysis Volume II.
	Cost of Hydrant	Each	1.00	8000	30.00	5600.00	
	Add fitting & Accessories	L.S.				75.00	
						5675.00	
	ADD GST @	12%				681.00	
	Total amount of basic market rates			(A)		6356.00	
9999	Carriage of materials and Fixing Charge	L.S.	21.50	2		38.27	
	ADD GST @	18%				6.89	
	Total amount of rates DSR 2014 items.			(B)		45.16	
	Total amount of materials and labour (A) + (B)=					6401.16	
	Add water charges @ 1%					64.01	
						6465.17	
	Add 15% C.P & O.H					969.78	
	Total					7434.95	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	Say					7435.00	
4	Providing and fixing Controlled Percolating (CP) Hose ISI marked (IS:8423) 63 mm dia x 15 m long complete with instanteneous type gunmetal / SS, 63 mm dia, ISI marked Male & Female couplings (IS:903) bound and rivetted to hose pipe with copper rivets and 1.5 mm copper wire.						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost of RRL Hose set.						
	RRL HOSE PIPE 63 MM x15 MTR. With COUPLING 63 MM SIZE	Each	1	5825	10	5242.50	
	ADD GST @	12%				629.10	
	Total amount of basic market rates			(A)		5871.60	
9999	Carriage of Material and M	L.S.	20	2		35.60	From field observation
	Labour for fixing						
116	Fitter (grade 1)	Day	0.05	435		21.75	From field observation
114	Beldar	Day	0.07	329		23.03	From field observation
						80.38	
	ADD GST @	18%				14.47	
	Total amount of rates DSR 2014 items.			(B)		94.85	
	Total amount of materials and labour (A) + (B)=					5966.45	
	Add 1% Water Charges					59.66	
						6026.11	
	Add 15% C.P & O.H					903.92	
	Total					6930.03	
	Say					6930.00	
#REF!	P/F fire hose cabinet 900x2100x600 mm						
	Angle iron frame 40x40x6mm			800			
	Angle iron shutter 25x25x4 mm			750			
	M.S. sheet 16 gauge 6.3 M2			2300			

	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	4 mm thick glass 1.89 M2			850			
	Locking arrangement 1 No.			125			
	Hanging clips for bash plate and axe 1 each			150			
	Hinges 100 mm x 25x3 mm 6 Nos.			100			
	Painting of shutter with frame synthetic enamel of primer			260			
	Misc. materials for welding and fabrication L.S.			110			
				5445			
	Labour for fabrication and fixing in position			1050			
				6495			
	Add 1% T & P charges			65			
				6560			
	ADD PROFIT & OVERHEAD @ 10%			656			
				7216			
	SAY			7216			
6	Providing and fixing M.S. fire hose shaft door with frame fabricated from angle iron frame 40 x 40 x 6 mm thick, angle iron shutter 25 x 25 x 4 mm thick, 16 g M.S. sheet of fully welded construction with hinged double front door with locking arrangement and butt hinges, 15 x 3 mm lugs 10 cm long (6 Nos) embedded in cement conc. blocks (1: 3: 6 mix) or with rawl plug and screws/bolts and nuts as required, partly glass door 4 mm thick approved by local fire aurthority, painted with one coat of primer, stove enamelled fire red finished, "Fire Hose" written on front, suitable to accommodate 2 Nos single headed Hydrant landing valve, 1 fire hose reel, 2 nos.15m long 63mmdia hose,1-branch pipe, 1 fire-man's axe, including suitably mounted on a raised masonry platform as required. (Approx.size 0.9m x 1.5m)						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost of M.S. fire hose shaft door with frame.						
	Basic Cost	Each	1	16400	40	9840.00	
	Add fitting & Accessories	L.S.				200.00	
						10040.00	
	ADD GST @	12%				1204.80	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	Total amount of basic market rates			(A)		10040.00	
9999	Carriage of Material and M	L.S.	300	2		534.00	From field observation
	Labour for fixing						
116	Fitter (grade 1)	Day	0.60	435		261.00	From field observation
114	Beldar	Day	1.00	329		329.00	From field observation
						1124.00	
	ADD GST @	18%				202.32	
	Total amount of rates DSR 2014 items.			(B)		1326.32	
	Total amount of materials and labour (A) + (B)=					11366.32	
	Add 1% Water Charges					113.66	
						11479.98	
	Add 15% C.P & O.H					1722.00	
	Total					13201.98	
	Say					13202.00	
8	Air cushion tank 250 mm dia. x 1.2 M high with dished top, made of minimum 6						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost of Air Cushion Tank.						
	Basic Cost	Each	1	5000	0	5000.00	
	Add fitting & Accessories	L.S.				120.00	
						5120.00	
	ADD GST @	12%				614.40	
	Total amount of basic market rates			(A)		5734.40	
9999	Carriage of Material and M	L.S.	110	2		195.8	From fie
	Labour for fixing						
116	Fitter (grade 1)	Day	1.00	435		435.00	From field observation
114	Beldar	Day	1.20	329		394.80	From field observation
						1025.60	
	ADD GST @	18%				184.61	
	Total amount of rates DSR 2014 items.			(B)		1210.21	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	Total amount of materials and labour (A) + (B)=					6944.61	
	Add 1% Water Charges					69.45	
						7014.05	
	Add 15% C.P & O.H					1052.11	
	Total					8066.16	
	Say					8066.00	
11	Supply Installation and testing C.I. Dual plate wafer check valve, spring loaded class (PN 1.6), ductile iron disc, 416 SS stem, EPDM lining, S.Steel spring complete with 2 Nos. matching flanges, rubber insertion, nuts, bolts and washer etc. of following sizes.						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
10.3	Details of cost for one piece of check valve 80 mm Dia.						Similar Item. No 18.17.6 of CPWD Rate Analysis Volume II.
	Cost of valve	Metre	1.00	1620	20.00	1296.00	
	ADD GST @	12%				155.52	
	Total amount of basic market rates			(A)		1451.52	
9999	Carriage of materials and Fixing Charge	L.S.	21.50	2		38.27	
	ADD GST @	18%				6.89	
	Total amount of rates DSR 2014 items.			(B)		45.16	
	Total amount of materials and labour (A) + (B)=					1496.68	
	Add water charges @ 1%					14.97	
						1511.65	
	Add 15% C.P & O.H					226.75	
	Total					1738.39	
	Say					1738.00	
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
11.3	Details of cost for one piece of check valve 150 mm Dia.						Similar Item. No 18.17.6 of CPWD Rate Analysis Volume II.
	Cost of valve	Metre	1.00	6206	20.00	4964.80	
	ADD GST @	12%				595.78	
	Total amount of basic market rates			(A)		5560.58	
9999	Carriage of materials and Fixing Charge	L.S.	25.50	2		45.39	
	ADD GST @	18%				8.17	
	Total amount of rates DSR 2014 items.			(B)		53.56	
	Total amount of materials and labour (A) + (B)=					5614.14	
	Add water charges @ 1%					56.14	
						5670.28	
	Add 15% C.P & O.H					850.54	
	Total					6520.82	
	Say					6521.00	
12	Supply Installation and testing cast iron wafer type Butterfly valves Class (PN 16) SS 304 Disc, Nitrile rubber lining (lever operated upto 150 mm and gear operated for 200mm and more) complete with 2 Nos matching flanges rubber insertion, nuts, bolts and washer etc. of following sizes						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
11.4	Details of cost for one piece of Butterfly valve 150 mm Dia.						Similar Item. No 18.17.6 of CPWD Rate Analysis Volume II.
	Cost of valve	Metre	1.00	5535	20.00	4428.00	
	ADD GST @	12%				531.36	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	Total amount of basic market rates			(A)		4959.36	
9999	Carriage of materials and Fixing Charge	L.S.	25.50	2		45.39	
	ADD GST @	18%				8.17	
	Total amount of rates DSR 2014 items.			(B)		53.56	
	Total amount of materials and labour (A) + (B)=					5012.92	
	Add water charges @ 1%					50.13	
						5063.05	
	Add 15% C.P & O.H					759.46	
	Total					5822.51	
	Say					5823.00	
13	Providing and fixing Forged Brass Ball valve with SS 304 ball, SS stem, renewable PTFE seat, teflon gland packing, stanmdard bore, lever operated, screwed female threads, body and seat test pressure 500 Psig. Complete in all respects.						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
13.2	Details of cost for one piece of Ball valve 25 mm Dia.						Similar Item. No 18.17.1 of CPWD Rate Analysis Volume II.
	Cost of ball valve	Metre	1.00	820	20.00	656.00	
	ADD GST @	12%				78.72	
	Total amount of basic market rates			(A)		734.72	
9999	Carriage of materials and Fixing Charge	L.S.	10.79	2		19.21	
	ADD GST @	18%				3.46	
	Total amount of rates DSR 2014 items.			(B)		22.66	
	Total amount of materials and labour (A) + (B)=					757.38	
	Add water charges @ 1%					7.57	
						764.96	
	Add 15% C.P & O.H					114.74	
	Total					879.70	
	Say					880.00	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
14	Providing and fixing dial type pressure gauge including making connection with ball valve at each hydrant station, complete in all respects. Dial dia 100 mm, calibration 0-15 kg/sq cm. Valve shall be paid separately. (15mm dia nominal bore.)						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
13.1	Details of cost for one piece of Pressure Gauge						Similar Item. No 18.17.1 of CPWD Rate Analysis Volume II.
	Cost of pressure gauge.	Metre	1.00	550	0.00	550.00	
	ADD GST @	12%				66.00	
	Total amount of basic market rates			(A)		616.00	
9999	Carriage of materials and Fixing Charge	L.S.	10.79	2		19.21	
	ADD GST @	18%				3.46	
	Total amount of rates DSR 2014 items.			(B)		22.66	
	Total amount of materials and labour (A) + (B)=					638.66	
	Add water charges @ 1%					6.39	
						645.05	
	Add 15% C.P & O.H					96.76	
	Total					741.81	
	Say					742.00	
	PRICE ANYLISES FOR 2850 LPM PUMP @ 75 mtr HEAD & 80 HP MOTOR						
	SUPPLIER: AGNI INDIA						
	BASIC COST OF PUMP AND MOTOR			235000			
	COST OF FOUNDATION			11000			
				246000			

	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	ADD VAT			30750			
				276750			
	ADD CARTAGE/LOADING/UNLOADING						
	TRANSPORTATION			2500			
				279250			
	ADD TOOLS & TACKLES			1000			
				280250			
	ADD FITTING & ACCESSORIES @ 5%			14013			
				294263			
	ADD LABOUR			12000			
				306263			
	ADD TESTING & COMMISSIONING			30626			
				336889			
	ADD PROFIT & OVERHEAD @ 10%			33689			
	TOTAL			370578			
	Say			370578			
	PRICE ANYLISES FOR DIESEL ENGINE DRIVEN PUMP 2850 LPM 75 MTR. HEAD						
	SUPPLIER: AGNI INDIA						
	BASIC COST OF PUMP AND ENGINE			410000			
	COST OF FOUNDATION			15000			
				425000			
	ADD VAT			53125			
				478125			
	ADD CARTAGE/LOADING/UNLOADING						
	TRANSPORTATION			2500			
				480625			
	ADD TOOLS & TACKLES			1000			
				481625			
	ADD FITTING & ACCESSORIES @5%			24081			
				505706			

	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	ADD LABOUR			15000			
				520706			
	ADD TESTING & COMMISSIONING			52071			
				572777			
	ADD PROFIT & OVERHEAD @ 10%			57278			
	TOTAL			630055			
	SAY			630055			
#REF!	PRICE ANYLISES FOR JOCKEY PUMP 180 LPM AT 75 MTR. HEAD						
	SUPPLIER: AGNI INDIA						
	BASIC COST OF PUMP AND ENGINE			54000			
	COST OF FOUNDATION			7500			
				61500			
	ADD VAT			7688			
				69188			
	ADD CARTAGE/LOADING/UNLOADING						
	TRANSPORTATION			500			
				69688			
	ADD TOOLS & TACKLES			500			
				70188			
	ADD FITTING & ACCESSORIES @5%			3509			
				73697			
	ADD LABOUR			5000			
				78697			
	ADD TESTING & COMMISSIONING @ 10%			7870			
				86567			
	ADD PROFIT & OVERHEAD @ 10%			8657			
	TOTAL			95223			
	Say			95223			

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
#REF!	PRICE ANYLISES FOR TERRACE PUMP 450 LPM AT 35 MTR. HEAD						
	SUPPLIER: AGNI INDIA						
	BASIC COST OF PUMP AND ENGINE			38000			
	COST OF FOUNDATION			7500			
				45500			
	ADD VAT			5688			
				51188			
	ADD CARTAGE/LOADING/UNLOADING						
	TRANSPORTATION			500			
				51688			
	ADD TOOLS & TACKLES			500			
				52188			
	ADD FITTING & ACCESSORIES @5%			2609			
				54797			
	ADD LABOUR			5000			
				59797			
	ADD TESTING & COMMISSIONING @ 10%			5980			
				65777			
	ADD PROFIT & OVERHEAD @ 10%			6578			
	TOTAL			72354			
	Say			72354			
15	Providing and fixing standard fireman's axe with heavy insulated rubber handle conforming to IS: 926 complete.						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference

	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	fireman's axe						Similar Item. No 18.17.1 of CPWD Rate Analysis Volume II.
	Cost of fireman's axe	Metre	1.00	520	10.00	468.00	
	ADD GST @	12%				56.16	
	Total amount of basic market rates			(A)		524.16	
9999	Carriage of materials and Fixing Charge	L.S.	11.00	2		19.58	
	ADD GST @	18%				3.52	
	Total amount of rates DSR 2014 items.			(B)		23.10	
	Total amount of materials and labour (A) + (B)=					547.26	
	Add water charges @ 1%					5.47	
						552.74	
	Add 15% C.P & O.H					82.91	
	Total					635.65	
	Say					636.00	
21	Providing and fixing 25 mm dia inspecting & testing assembly with gunmetal valve, gunmetal sight glass, bypass valve & connected to drain line.						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost for one piece of Inspecting & testing assembly						
	Cost of valve	Metre	1.00	4500	0.00	4500.00	
	ADD GST @	12%				540.00	
	Total amount of basic market rates			(A)		5040.00	
9999	Carriage of materials and Fixing Charge	L.S.	150.00	2		267.00	
	ADD GST @	18%				48.06	
	Total amount of rates DSR 2014 items.			(B)		315.06	
	Total amount of materials and labour (A) + (B)=					5355.06	
	Add water charges @ 1%					53.55	
						5408.61	
	Add 15% C.P & O.H					811.29	
	Total					6219.90	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	Say					6220.00	
22	Providing and fixing Forged Brass Ball valve with SS 304 ball, SS stem, renewable PTFE seat, teflon gland packing, stanmdard bore, lever operated, screwed female threads, body and seat test pressure 500 Psig. Complete in all respects.						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost for one piece of Ball valve 20 mm Dia.						Similar Item. No 18.17.1 of CPWD Rate Analysis Volume II.
	Cost of ball valve	Metre	1.00	820	20.00	656.00	
	ADD GST @	12%				78.72	
	Total amount of basic market rates			(A)		734.72	
9999	Carriage of materials and	L.S.	10.79	2		19.21	
	ADD GST @	18%				3.46	
	Total amount of rates DSR 2014 items.			(B)		22.66	
	Total amount of materials and labour (A) + (B)=					757.38	
	Add water charges @ 1%					7.57	
						764.96	
	Add 15% C.P & O.H					114.74	
	Total					879.70	
	Say					880.00	
23	Providing and fixing dial type pressure gauge including making connection with ball valve at each hydrant station, complete in all respects. Dial dia 100 mm, calibration 0-15 kg/sq cm. Valve shall be paid separately. (15mm dia nominal bore.)						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
13.1	Details of cost for one piece of Pressure Gauge						Similar Item. No 18.17.1 of CPWD Rate Analysis Volume II.
	Cost of pressure gauge.	Metre	1.00	550	0.00	550.00	
	ADD GST @	18%				99.00	
	Total amount of basic market rates			(A)		649.00	
9999	Carriage of materials and	L.S.	10.79	2		19.21	
	ADD GST @	18%				3.46	
	Total amount of rates DSR 2014 items.			(B)		22.66	
	Total amount of materials and labour (A) + (B)=					671.66	
	Add water charges @ 1%					6.72	
						678.38	
	Add 15% C.P & O.H					101.76	
	Total					780.14	
	Say					780.00	
24	SUPPLY, INSTALLATION, TESTING. & COMMISSIONING OF: Electrical Motor Driven Fire Pumping set suitable for automatic operation consisting of the following as per the specifications. a) Horizontally mounted, centrifugal type single/ multi stage fire pump having cast iron body, bronze impeller, stainless steel shaft & capable of delivering 900 LPM against a total head of 35 M, pressure gauge with GM cocks on the delivery side including bypass arrangement (with 50 valve and upto 5M G.I. Medium pipes) for periodical testing of the working of the testing of the working of the pumping set as per TAC rules. b) Squirrel cage induction motor totally enclosed fan cooled type suitable for 415 Volts +_ 15%, 3 phase, 50 HZ A.C. supply 1450 / 2900 RPM of suitable capacity including electric power contol panel with all accessories for auto operation of pump e.g., single phase preventor, rotary switch, ampere meter, volt meter , starter of suitable capacity, pressure switches to start the pump at predetermined pressure, necessary power cable from panel to motor (approx. 12.5 HP or as required) for the above pump coupled with flexible copuling including earthing as per relevant Indian Standard & specifications. c) Common bed plate for mounting Pump and Motor fabricated of Motor fabricated of suitable M.S.Channel as per manufacturer*s recommendations. d) Suitable RC.C Pump-Foundations as per manufacturer's design and 4 nos. Dunlop (cushy foot) heavy duty Antivibration mounting pads. (for Sprinkler down comer on terrace).						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference

	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	Details of cost of Fire Terrace pump 900 lpm Set.						
	BASIC COST OF PUMP & ELECTRIC PANNEL	Each	1	85000	0	85000.00	
	COST OF FOUNDATION					4000.00	
	Add fitting & Accessories	L.S.				5000.00	
						94000.00	
	ADD GST @	12%				11280.00	
	Total amount of basic market rates			(A)		105280.00	
9999	Carriage of Material and M	L.S.	600	2		1068.00	From field observation
	Labour for fixing						
116	Fitter (grade 1)	Day	2.00	435		870.00	From field observation
117	Assistant Fitter or 2nd clas	Day	2.00	399		798.00	
114	Beldar	Day	3.00	329		987.00	From field observation
						3723.00	
	ADD GST @	18%				670.14	
	Total amount of rates DSR 2014 items.			(B)		4393.14	
	Total amount of materials and labour (A) + (B)=					109673	
	Add 1% Water Charges					1097	
						110770	
	Add 15% C.P & O.H					16615	
	Total					127385	
	Say					127385	
	SUPPLIER: AGNI INDIA	300x50	150x50				
	BASIC COST	500.00	350.00				
	ADD VAT	62.50	43.75				
		562.50	393.75				
	ADD CARTAGE/LOADING/UNLOADING						
	TRANSPORTATION	28.13	19.69				
		590.63	413.44				

	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	ADD TOOLS & TACKLES @ 2%	11.81	8.27				
		602.44	421.71				
	ADD FITTING & ACCESSORIES @15%	90.37	63.26				
		692.80	484.96				
	ADD LABOUR	260.00	200.00				
		952.80	684.96				
	ADD TESTING & COMMISSIONING @ 5%	47.64	34.25				
		1000.44	719.21				
	ADD PROFIT & OVERHEAD @ 10%	100.04	71.92				
	TOTAL	1100.49	791.13				
	Say	1100.50	791.15				
25	Providing and fixing reselient rubber neoprene lined single arch vibration eliminators suitable for raw water upto 45 deg. C. temperature working pressure 7 kg and test pressure 14 kg per sq. cm.						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
29.1	Details of cost for one piece of vibration eliminators 100 mm Dia.						Similar Item. No 18.17.6 of CPWD Rate Analysis Volume II.
	Cost of valve	Metre	1.00	3000	0.00	3000.00	
	Add fitting & Accessories	L.S.				400.00	
						3400.00	
	ADD GST @	12%				408.00	
	Total amount of basic market rates			(A)		3808.00	
9999	Carriage of materials and Fixing Charge	L.S.	25.50	2		45.39	
	ADD GST @	18%				8.17	
	Total amount of rates DSR 2014 items.			(B)		53.56	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	Total amount of materials and labour (A) + (B)=					3861.56	
	Add water charges @ 1%					38.62	
						3900.18	
	Add 15% C.P & O.H					585.03	
	Total					4485.20	
	Say					4485.00	
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
29.2	Details of cost for one piece of vibration eliminators 150 mm Dia.						Similar Item. No 18.17.6 of CPWD Rate Analysis Volume II.
	Cost of valve	Metre	1.00	4300	0.00	4300.00	
	Add fitting & Accessories	L.S.				400.00	
						4700.00	
	ADD GST @	12%				564.00	
	Total amount of basic market rates			(A)		5264.00	
9999	Carriage of materials and Fixing Charge	L.S.	30.50	2		54.29	
	ADD GST @	18%				9.77	
	Total amount of rates DSR 2014 items.			(B)		64.06	
	Total amount of materials and labour (A) + (B)=					5328.06	
	Add water charges @ 1%					53.28	
						5381.34	
	Add 15% C.P & O.H					807.20	
	Total					6188.54	
	Say					6189.00	
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
29.3	Details of cost for one piece of vibration eliminators 200 mm Dia.						Similar Item. No 18.17.6 of CPWD Rate Analysis Volume II.
	Cost of valve	Metre	1.00	6150	0.00	6150.00	
	Add fitting & Accessories	L.S.				400.00	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
						6550.00	
	ADD GST @	12%				786.00	
	Total amount of basic market rates			(A)		7336.00	
9999	Carriage of materials and Fixing Charge	L.S.	33.50	2		59.63	
	ADD GST @	18%				10.73	
	Total amount of rates DSR 2014 items.			(B)		70.36	
	Total amount of materials and labour (A) + (B)=					7406.36	
	Add water charges @ 1%					74.06	
						7480.43	
	Add 15% C.P & O.H					1122.06	
	Total					8602.49	
	Say					8602.00	
27	SUPPLY & FIXING OF ISI:15683 marked Water stored pressure type fire extinguisher capacity 9 ltrs. with gun-metal cap and nozzle and complete in all respects including initial fill and wall suspension bracket. Capacity 9 ltrs.						
Code	Description	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost of each.						
	Basic Cost	Each	1	4000	10	3600.00	
	ADD GST @	12%				432.00	
	Total amount of basic market rates			(A)		4032.00	
9999	Carriage of Material and M	L.S.	18	2		32.04	From field observation
	Labour for fixing						
116	Fitter (grade 1)	Day	0.08	435		34.80	From field observation
114	Beldar	Day	0.10	329		32.90	From field observation
						99.74	
	ADD GST @	18%				17.95	
	Total amount of rates DSR 2014 items.			(B)		117.69	
	Total amount of materials and labour (A) + (B)=					4149.69	
	Add 1% Water Charges					41.50	
						4191.19	
	Add 15% C.P & O.H					628.68	
	Total					4819.87	

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	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	Say					4820.00	
30	PRICE ANYLISES FOR DIESEL ENGINE DRIVEN PUMP 2850 LPM 75 MTR. HEAD						
	SUPPLIER: AGNI INDIA						
	BASIC COST OF PUMP AND ENGINE					410000.00	
	COST OF FOUNDATION					15000.00	
						425000.00	
	ADD GST @	12%				51000.00	
						476000.00	
	ADD CARTAGE/LOADING/UN LOADING						
	TRANSPORTATION					2500.00	
						478500.00	
	ADD TOOLS & TACKLES					1000.00	
						479500.00	
	ADD FITTING & ACCESSORIES @5%					23975.00	
						503475.00	
	ADD LABOUR					15000.00	
						518475.00	
	ADD TESTING & COMMISSIONING					51847.50	
						570322.50	
	ADD GST @	18%				102658.05	
	Add 1% Water Charges					1026.58	
						103684.63	
	Add 15% C.P & O.H					15552.69	
	TOTAL					585875.19	
	SAY					585875.00	
31	PRICE ANYLISES FOR JOCKEY PUMP 180 LPM AT 75 MTR. HEAD						
	SUPPLIER: AGNI INDIA						
	BASIC COST OF PUMP AND ENGINE					54000.00	

	Name of Component :-		ANALYSIS OF RATES FOR FIRE SUPPRESSION WORKS				
	COST OF FOUNDATION					7500.00	
						61500.00	
	ADD GST @	18%				11070.00	
						72570.00	
	ADD CARTAGE/LOADING/UNLOADING						
	TRANSPORTATION					500.00	
						73070.00	
	ADD TOOLS & TACKLES					500.00	
						73570.00	
	ADD FITTING & ACCESSORIES @5%					3678.50	
						77248.50	
	ADD LABOUR					5000.00	
						82248.50	
	ADD TESTING & COMMISSIONING @ 10%					8224.85	
						90473.35	
	ADD GST @	18%				16285.20	
	Add 1% Water Charges					162.85	
						16448.06	
	Add 15% C.P & O.H					2467.21	
	TOTAL					92940.56	
	Say					92940.00	

Sub Engineer
J.S.C.L., Jabalpur

Executive Engineer
J.S.C.L., Jabalpur

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		FORMAT - E		1		F

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

	S.No. of Project Sub Head :-	1				
	Name of Project Sub Head :-	Cost of construction of AUDITORIUM				
	S.No. of Component :-	F				
	Name of Component :-	FIRE ALARM AND DETECTION SYSTEM				
Sl No	**SOR**	**DESCRIPTION**	**UNIT**	**QTY**	**RATE**	**AMOUNT**
		ABSTRACT OF COST				
		FIRE ALARM AND DETECTION SYSTEM				
1.00	43.CB1 MPPWD	Fire Panel : Providing, Fixing, testing & commissioning Microprocessor based Main Fire Alarm Panel and indicating panel solid state modular card type pulsar, timer for dual stage alarm facility with indicators, standby battery ,Complies to IS 2189:1999.2 x 16 character backlit LCD display .Lamp test features. Complete with integral power supply and battery charger for SMF battery. NO/NC contacts for both fire and fault. Switches to enable on board operation. LCD and LED Indication for open, short circuit, Isolate, Fire in each zone. Reset, Lamp Test, Silence, Isolate, Short, Open, Fire Continuous buzzer for fault and intermittent buzzer for fire battery charger box, operating voltage 220 Volt Mains A.C. Input / 24V D.C. Output etc. complete in all respect.				
	43.CB1.3	8 Zone Fire Panel	Nos.	1	40172.00	40,172.00
1.02	43.CB1.3 MPPWD	Smoke Detector (Optical Type) : Providing & Fixing of Optical type Smoke Detector as per IS" 11360 - 1985 of photooptic sensing chamber, 12/24 volt DC, ionization source - less than one micro curie maximum Americium 241, twin visual alarm indicator (LED's) "Blink" in stand by and "steady" in alarm complete in all respects.	Nos.	90	2965.00	266,850.00

	Name of Component :-		FIRE ALARM AND DETECTION SYSTEM			
1.03	43.C.B.1.4 MPPWD	Heat Detector Providing & Fixing of Heat Detector based on Heat Rate-of-Rise/fixed temperature with working voltage 9-33V DC twin visual alarm indicator (LED's) "Blink" in stand by and "steady" in alarm complete in all respects.	Nos.	1	2178.00	2,178.00

	Name of Component :-		FIRE ALARM AND DETECTION SYSTEM			
1.04	43.C.B.1.7 MPWD	Manual call Point Providing & Fixing of Manual calls Point flush or Surface Mounting. Front protection glass cover. Unbreakable glass ABS plastic body.	Nos.	4	569.00	2,276.00
1.05	43.C.B.1.8 MPPWD	Internal Hooter Providing & Fixing of Internal Hooter With Working AC Voltage 220V- A.C. / 24V D.C. Current Consumption, Sound output 120 DB, Material M.S .Sheet.	Nos.	4	666.00	2,664.00
1.06	NDSR	Supply, Installation, testing & commissioning of control module complete as per specification as required.	Nos.	4	7359.00	29,436.00
1.07	43.C.B.1.6 MPPWD	R.I. Providing & Fixing of Response Indicator	Nos.	47	200.00	9,400.00
1.08	NDSR	Supply & laying of Fire Survival Armoured cable (HPSR) High Performance Silica Rubber, size 1.5 sq mm x 2 core Copper, as per BS 7629 code, LPCB certified, 950°C rating for three hours for fire alarm system	Mtr	1400	160.00	224,000.00
1.09		Supplying and drawing following sizes of PVC insulated FRLS copper conductor single core cable in the existing surface / recessed steel / PVC conduit as required.				
	1.17.2	2 x 1.5 sq.mm.	Mtr	200	37.00	7,400.00

	Name of Component :-		FIRE ALARM AND DETECTION SYSTEM			
1.10		Supplying and fixing of MS conduit along with the accessories in surface /recess including painting in case of surface conduit, or cutting the wall and making good the same in the case of recessed conduit complete with MS pull wire as required.				
	1.20.1	20 mm dia.	Mtr	100	126.00	12,600.00
	1.20.2	25 mm dia.	Mtr	50	147.00	7,350.00
		SUB TOTAL				**604,326.00**
		Sub Engineer **J.S**.C.L., Jabalpur		**Executive Engine**er J.S.C.L., Jabalpur		

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DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-	1
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDING
S.No. of Component :-	F
Name of Component :-	Fire Alarm System

ANALYSIS OF RATES FOR FIRE ALARM SYSTEM

		Unit	Qty	(A) Basic price)	(B) Discount 0% on A	(C) After Discount on A	(D) GST 28 % on C	(E) Total (C+D)	(F) Vat 0% on C	(G) Total (E+F)	(H) Freight Chargs @ 1% of G	(I) Total = (G+H)	(J) Insltallation, testing & Commissioning (@10%)	(K) Service tax on installation Item @ 0% of I	(L) Total (I+J+K)	(M) Overhead & Profit @15% of L	Total (L+M)	SAY RS/unit
6	Supply, Installation, testing & commissioning of control module complete as per specification as required.	Nos	1	4500.00	0.00	4500.00	1260.00	5760.00	0	5760	58	5818	582	0	6399	960	7359	**7359.0**
8	Supply & laying of Fire Survival Armoured cable (HPSR) High Performance Silica Rubber, size 1.5 sq mm x 2 core Copper, as per BS 7629 code, LPCB certified, 950°C rating for three hours for fire alarm system	Mtr	1	98.00	0.00	98.00	27.44	125.44	0	125	1	127	13	0	139	21	160	**160.0**

Sub Engineer
J.S.C.L., Jabalpur

Executive Engineer
J.S.C.L., Jabalpur

M/S A. WALLABH AND WALLABH ASSOCIATES
B-5/86, PASCHIM VIHAR, NEW DELHI 110063
PH 9555577554, 9718306399

		FORMAT - F	1.00	G

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head	1.00			
Name of Project Sub Head	Cost of construction of AUDITORIUM BUILDI			
S.No. of Component	G			
Name of Component	H.V.A.C.			

ABSTRACT OF COST

S.No.	Ref DSR NO.	Description of Items	Qty	Unit	Rate in Figures in Rupees	Amount
1	**NSI-1**	**VRV OUTDOOR FOR DX TYPE AHU**				
		Supply, installation, testing and commissioning of Variable refrigerant volume/ Variable refrigerant flow modular type air-conditioning system suitable for cooling and heating by using minimum 33 % as variable capacity Inverter based compressors in each Module complete with outdoor units with controller, Expansion Valve Kit (EV kit), control box with internal wiring and other related accessories etc. full charging of R-410A refrigerant gas complete, powder coating complete as per specification.				
		(Considering conversion factor 1 HP= 0.83TR)				
		Outdoor units of nominal capacity as per manufacturer's standard suitable for operating with R-410A refrigerant.				
1.1		Minimum **20 HP** (For 6400 cfm/ 16.0 TR DX AHU)	4	Nos.	543,000.00	2,172,000.00
	NSI-2	**INDOOR UNITS**				
2		**DX TYPE AHU**				

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Name of Component			H.V.A.C.			
		Supply, installation, testing and commissioning of double skin modular construction, draw through Floor Mounted Horizontal type (FM) Air Handling Units of 0.6 mm thick Plain GSS Sheet from inside & 0.8 mm thick Preplasticized GSS Sheet from Outside with 40 mm thick puf insulation in between them. AHU Shall be complete with DIDW Centrifugal fan (plugfan), Squirrel cage induction motor, DX type cooling / heating coil (Copper tubes and Aluminium fins), pre-filter (Washable Synthetic fibre of efficiency 90% down to 10 micron), drain pan, V belt drive, fireproof double canvass connection and other accessories as per specifications . Motor shall be suitable for 415 ± 10% volts, 50 cycle, 3 Phase AC supply as indicated below.AHU shall include the cost of metering, power and control wiring between Control panel and Motor. PCC/RCC foundation with plaster, Antivibration arrangement of cushy foot mountings etc. complete in all respect shall be in contractor's scope for floor mounted AHUs..				
2.1		6400 CFM (FM) AHU, 16.0 TR, 4 row deep cooling coil, 125 mm Static Pressure with 3.0 HP/ 3 Phase motor	4	Nos.	126,074.00	504,296.00
3	**NSI-3**	**CONTROL & TRANSMISSION WIRING**				
3.1		Providing & Fixing Control cum Transmission Wiring of 2 Core x 1.5 mm2 copper wire in PVC conduit as per specifications for transmission and between Indoor Units & their wired remotes.	100	RM	250.00	25,000.00
4	**NSI-4**	**REFRIGERANT PIPING**				

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Name of Component			H.V.A.C.			
		Supplying & Installation of interconnecting following sizes of one end expanded refrigerant copper pipe work with Headers of following outer diameter, insulated with closed cell electrometric nitrile rubber tubular insulation between each set of indoor & outdoor units with outer mechanical protection of alluminum cladding for all exposed pipes as per specification all piping inside the room shall be propelrly fixed/supported with suitable size of clamp/ M.S. hanger and all external piping shall run in M.S. painted cable tray etc. as reqd. (The final refrigerant pipe sizes shall be as per manufacturer).The Pipe given quantity also includes the extra refrigerant pipe beyond 5 meter of length for Split units.				
4.1	4.1	15.88 mm dia with 13mm thick nitrile rubber insulation	80	Mtrs.	1090	87,200.00
4.2	4.2	28.58 mm dia with 19mm thick nitrile rubber insulation	80	Mtrs.	1790	143,200.00
5	**NSI-5**	**DRAIN PIPING**				
		Supply, installation, testing and commissioning of rigid heavy duty PVC piping complete with fittings, support as per drawing and insulated with 6 mm closed cell elastomeric insulation.				
5.1		25 mm dia	50	RM	259.00	12,950.00
5.2		32 mm dia	30	RM	321.00	9,630.00
6	**DSR-16.12.1**	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
		Note :- Auditorium height is approx. 30 ft and contractor has to arrange its scaffolding for ducts installation and other work. Quoted price should be inclusive of scaffolding price.				
6.1	16.12.1.1	0.63 MM (24 gauge) Galvanized Sheet Steel Ducting	700	Sqmt	739	517,300.00

Name of Component			H.V.A.C.			
6.2	16.12.1.2	0.80 MM (22 gauge) Galvanized Sheet Steel Ducting	100	Sqmt	905	90,500.00
6.3	16.12.1.3	1.0 MM (20 gauge) Galvanized Sheet Steel Ducting	70	Sqmt	1014	70,980.00
6.4	16.12.1.4	1.25 MM (18 gauge) Galvanized Sheet Steel Ducting	R.O	Sqmt	1278	
7	**NSI-6**	SITC of Flexible Connection between AHU and duct complete with fittings, flanges, supports, all accessories as per specifications.	4	Nos.	1750	7,000.00
8		**SUPPLY / RETURN AIR GRILLES**				
8.1	**DSR-16.15**	Supplying & fixing of powder coated extruded aluminium Supply/Fresh Air Grills with aluminium volume control dampers as per specifications.	10	Sqmt	7,132.00	71,320.00
8.2	**DSR-16.16**	Supplying & fixing of powder coated extruded aluminium Return / Exhaust Air Grilles with louvers but without volume control dampers complete as required.	20	Sqmt	4,065.00	81,300.00
9		**SUPPLY / RETURN AIR DIFFUSERS**				
9.1	**DSR-16.17**	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	1	Sqmt	8,686.00	8,686.00
9.2	**DSR-16.18**	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	1	Sqmt	5619	5,619.00

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Name of Component			H.V.A.C.			
10	**DSR-16.21**	Supplying, fixing acoustic lining of supply air duct and plenum with 25 mm thick resin bonded glass wool having density of 32 Kg/$M^{3,}$ with 25 mm x 25 mm GI section of 1.25 mm thick at 600 mm centre to centre covering with rienforced plastic tissue paper and 0.5 mm thick perforated aluminum sheet fixed to inside surface of ducts with cadmium plated nuts, bolts, stick pins, CPRX compound complete as required and as per specification.	50	Sqmt	551	27,550.00
11	**DSR-16.23**	Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class"O") insulation on existing duct after applying two coats of cold setting adhesive (CPRX compound). The joints shall sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required.				
11.1	16.23 .1	19 mm thick (In Condition Space)	820	Sqm.	821.00	673,220.00
12	**DSR-16.22**	Supplying, fixing accoustic lining on wall amd ceiling of AHU rooms with 50 mm thick, density 32 kg/cum resin bonded glass fiber insulation friction fixed in 610mm x 610 mm frame work made of 25 x 50 x 50 x 50 x 25 mm made out of 0.6 mm thick GI sheet U shaped channel and covered with reinforced fiber galss tissue and finished with 0.8 mm perfoarted aluminium sheet etc. complete as required and as per sepcifications.	120	Sqmt	870.00	104,400.00
13	**DSR-16.22**	**FIRE DAMPERS**				

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Name of Component			H.V.A.C.			
		Supplying, Fixing,testing and commissioning of fire dampers in supply air duct/main branch and return air path as and where required of required sizes i/c control wiring,the damper shall be motorized and spring return so as to close the damper in the event of power failure automatically and open the same in case of power being restored. The spring return action shall be inbuilt mechanism and not externally mounted. The damper shall also be closed in the event of fire signal complete as required and as per specifications.				
13.1	16.20 .1	Fire damper	4	Sqm.	**7103**	28,412.00
13.2	16.20 .2	Actuator	8	Each	**6604**	52,832.00
14	**NSI-7**	**<u>AXIAL FLOW FANS</u>**				
		Supply, installation, testing and commissioning of direct driven Axial Flow Fans as shown in drawings and as per specifications. Each fan shall be complete with totally enclosed fan cooled motor EFF-1 (IP:55), Starters, metering, power and control wiring between Control panel and Motor etc., motor mount and vibration isolators. Fan motor shall be suitable for 3 Phase, 415 +/- 10% V, 50 Hz AC supply.(Motor speed shall not exceed 900 rpm). The Smoke Extraction Fan and its casing shall be suitable for smoke exhaust application and fan shall be AMCA certified. Motor shall be thermally rated for 250°C for 2 hours as per [BS-7346 Part-2 : 1990] Class-B				
14.1	7.1	**Duty : Smoke Exhaust in case of Emergency**				
		Air Quantity : 7,000 CFM				
		Static Pressure : 20 mm wg	4	Nos.	**71997**	287,988.00
		Motor Rating : 5 HP (Suggested)				
14.2	7.2	**Duty : Fresh Air in case of Emergency**				
		Air Quantity : 6,500 CFM				
		Static Pressure : 20 mm wg				
		Motor Rating : 5 HP (Suggested)	4	Nos,	**65756**	263,024.00

Name of Component			H.V.A.C.			
15	**NSI-8**	**INLINE FANS**				
		Supply, installation, testing and commissioning of inline ducted Fans as shown in drawings. Fan motor shall be suitable for single phase, 50 Hz AC supply. The capacity of the fan given as under:-				
15.1	8.1	Air Quantity : 550 CFM				
		Static Pressure : 20 mm wg				
		Motor rating : 150 Watt	1	No.	18950.00	18,950.00
		Duty : Exahust				
15.2	8.2	Air Quantity : 400 CFM				
		Static Pressure : 20 mm wg				
		Motor rating : 150 Watt				
		Duty : Exahust	1	No.	13782	13,782.00
15.3	8.3	Air Quantity : 350 CFM				
		Static Pressure : 20 mm wg				
		Motor rating : 150 Watt				
		Duty : Exahust	1	No.	12060	12,060.00
15.4	8.4	Air Quantity : 250 CFM				
		Static Pressure : 20 mm wg				
		Motor rating : 150 Watt				
		Duty : Exahust	1	No.	8803	8,803.00
15.5	8.5	Air Quantity : 200 CFM				
		Static Pressure : 20 mm wg				
		Motor rating : 150 Watt				
		Duty : Exahust	1	No.	7401	7,401.00
15.6	8.6	Air Quantity : 150 CFM				
		Static Pressure : 20 mm wg				
		Motor rating : 80 Watt				
		Duty : Exahust	1	No.	6500	6,500.00
16	**NSI-9**	**PROPELLER FANS**				

Name of Component			H.V.A.C.			
		Supply, installation, testing and commissioning of direct driven Propeller fans for exhaust air as shown on drawings and as per specifications. Each fan shall be complete with permanent split capacitor or shaded pole motor, mounting plate, accessories like wire guard, bird screen and fixed louvers for weather protection as required. The quoted price shall include cost of wiring and cabling from electrical panel to unit with conduit/ cable tray etc. Fan motor shall be suitable for 1 Phase, 230 ± 10% V, 50 Hz AC supply. Fan capacities and Electrical characteristics shall be as follows:				
16.1	9.1	Air Quantity : 100 CFM				
		Power : 80 watt				
		Duty : exhaust	2	Nos.	4252	8,504.00
17	**NSI-10**	**HVAC PANEL**				
		315 Amp FP MCCB having breaking capacity - 35 kA breaking capacity manual drawout type with Microprocessor release and rotatry handle.				
		(0-315 A) Digital Ammeter with selector switch & 315/5 C.T.'s - 1 Set				
		(0-500 V) Digital Voltmeter with selector switch - 1 Set				
		1 No. 3 phase and neutral, neutral to earth (minimum 4 mode) surge suppressor for 35KA along with necessary fuses.				
		Indication lamp R/Y/B with backup MCB - 1 Set of Three				
		BUS BARS				

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Name of Component			H.V.A.C.			
		Electrolytic grade aluminium TPN busbars rated at 400amp suitable to withstand symmetrical fault level of 35 ka for 1 sec.				
		OUTGOINGS				
		4 Nos. 63A TPN, D curve MCB (VRF- 1,2,3, & 4), 10 kA breaking capacity for VRF.				
		8 Nos. 5 KW DOL Starter with 25A TPN, D curve MCB 10KA (for Fan- 1,,2,3,4.5,6.7 & 8).				
		4 Nos. 7.5 KW DOL Starter with 32A TPN, D curve MCB 10KA (for AHU- 1,,2,3 & 4).				
		2 Nos. 63A TPN MCCB, 35 kA breaking capacity with thermal release and adjustable setting and with rotary handle (Spare)				
		03 nos. 25A TPN, D curve MCB (Spare).				
		Supplying,Receiving, fixing, testing & commissioning of above described Panel	1	Set	**142622**	**142622**
18	**NSI-11**	Providing & fixing weather proof 63 Amp FP MCB near each outdoor unit etc.	4	Nos.	3590	**14360**
19	**NSI-12**	Providing and Fixing of aluminium armourd Power cabling including supply of cables, saddles, cable ties, cable tags, ferrules, cable glands, lugs, nuts/bolts/hardware etc. complete in all respects as per specifications and any other item required to make the system complete.				
19.1		4C x 25 Sqmm Aluminium	150	Rmt	421	**63150**
20	DSR 5.7	Supplying and laying 6 SWG G.I. wire at 0.50 meter below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	350	Rmt	28	**9800**

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Name of Component			H.V.A.C.			
21	DSR 4.1	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.				
	4.1.3	225 mm width X 50 mm depth X 1.6 mm thickness	60	Rmt	460	**27600**
Grand Total					:	**5,577,939**
		Sub Engineer J.S.C.L., Jabalpur			Executive Engineer J.S.C.L., Jabalpur	

	FORMAT - F		1.00	G	
DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.					
S.No. of Project Sub Head			1.00		
Name of Project Sub Head			Cost of construction of AUDITORIUM BUILDING		
S.No. of Component			G		
Name of Component			H.V.A.C.		
ANALYSIS OF RATE					
RATE ANLAYSIS FOR HVAC ITEMS-Outdoor Units					
			(Daikin)		
S. NO.	Item No.-1	Unit	Quantity	20 HP	
				IN RS.	
1	Cost of Material	No.	1	431,500.00	
	Discount 10%			43,150.00	
	Price after Discount			388,350.00	
2	GST@28%			108,738.00	
	Total			497,088.00	
3	Add transportation, packaging & forwarding @ 4%			19,883.52	
	Total			516,971.52	
4	ADD CP & OH @ 5%			25,848.58	
	TOTAL			542,820	
	TOTAL (Say)			543,000	
RATE ANLAYSIS FOR HVAC ITEMS- Indoor Units					
(Daikin)					
S. NO.	Item No.- 2	Unit	Quantity	6400 CFM AHU	
				IN RS.	
1	Base price AHU		1	80000	
	GST 28%			22400	
	Total			102400	
2	Cartiridge @ 1%			1024	
	Total A			103424	
	ITC @ 6% of A			6205	
A	Total			109629	
	Profit & Overheads @ 15%			16444	
	Total			126074	
	Say			126074	
RATE ANLAYSIS FOR HVAC ITEMS- Wiring					
S. NO.	Item No.- 3	Unit	Quantity		
				2Cx1.5 sqmt	
				IN RS.	

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Name of Component			H.V.A.C.		
1	Cost of Material	RM	1	162.00	
2	GST@28%			45.36	
	Total			207.36	
3	Add transportation, packaging & forwarding @ 4%			8.29	
	Total			215.65	
4	ADD CP & OH @ 15%			32.35	
	TOTAL			248	
	TOTAL (Say)			250	

RATE ANLAYSIS FOR HVAC ITEMS- Refrigerant Piping

(Daikin)

S. NO.	Item No.- 4	Unit	Quantity		
				28.6 mm	15.9 mm
				IN RS.	IN RS.
1	Cost of Material	RM	1	1,580.00	960.00
	Discount 10%			316.00	192.00
				1,264.00	768.00
2	GST@18%			227.52	138.24
	Total			1,491.52	906.24
3	Add transportation, packaging & forwarding @ 4%			59.66	36.25
	Total			1,551.18	942.49
4	ADD CP & OH @ 15%			232.68	141.37
	TOTAL			1,784	1,084
	TOTAL (Say)			1,790	1,090

RATE ANLAYSIS FOR HVAC ITEMS- Drain Piping

Daikin

S. NO.	Item No.- 5	Unit	Quantity		
				25 mm	32 mm
				IN RS.	IN RS.
1	Cost of Material	RM	1	200.50	248.50
	Discount 10%			20.05	24.85
				180.45	223.65
2	GST@18%			36.09	44.73
	Total			216.54	268.38

Name of Component			H.V.A.C.		
3	Add transportation, packaging & forwarding @ 4%			8.66	10.74
	Total			225.20	279.12
4	ADD CP & OH @ 15%			33.78	41.87
	TOTAL			259	321
	TOTAL (Say)			259	321
RATE ANLAYSIS FOR HVAC ITEMS- Flexible Connection					
S. NO.	Item No.- 6	Unit	Quantity		
				IN RS.	
1	Cost of Material	Sqmt.	1	1,300.00	
	Discount 20%			260.00	
				1,040.00	
2	GST@18%			187.20	
	Total			1,227.20	
3	Add transportation, packaging & forwarding @ 4%			49.09	
4	Add for installation, Testing & Commissioning @ 20%			245.44	
	Total			1,521.73	
5	ADD CP & OH @ 15%			228.26	
	TOTAL			1,750	
	TOTAL (Say)			1,750	
Rate Analysis For HVAC (Axial Fans)					
(Humidin)					
S. NO.	Item No. 7	Unit	Quantity	7000 CFM	6500 CFM
				IN RS.	IN RS.
1	Base price	No.	1	60914.00	55634.00
	Discount@ 25%			15228.50	13908.50
	Total			45685.50	41725.50
2	GST 28%			12791.94	11683.14
	Total			58477.44	53408.64
	Add for Cartridge 1%			584.77	534.09
A	Total A			59062.21	53942.73
	ITC 6% of A			3543.73	3236.56

Name of Component			H.V.A.C.		
	Total			62605.95	57179.29
	Profit & Overheads @ 15%			9390.89	8576.89
	Total			71996.84	65756.18
	Say			71997.00	65756.00
Rate Analysis For HVAC (Inline Fans)					
(Caryaire)					
S. NO.	Item No. 8	Unit	Quantity	550cfm	400cfm
				IN RS.	IN RS.
1	Cost of Equipment	No.	1	15030	10932
	Discount 20%			3006	2186.4
				12024	8745.6
2	GST@ 28%			3,366.72	2,448.77
	Total			15,390.72	11,194.37
A	Add for cartridge @ 1%			153.91	111.94
	Total A			15,544.63	11,306.31
	ITC @6% of A			932.68	678.38
	Total			16,477.30	11,984.69
	Overhed and Profits@15%			2,471.60	1,797.70
	TOTAL			18,948.90	13,782.39
	TOTAL(SAY)			18950	13782
		350 cfm	250 cfm	200 cfm	150 cfm
		IN RS.	IN RS.	IN RS.	IN RS.
1	Cost of Equipment	9565	6983	5870	5156
	Discount 20%	1913	1396.6	1174	1031.2
	TOTAL	7652	5586.4	4696	4124.8
2	GST@ 28%	2,142.56	1,564.19	1,314.88	1,154.94
	Total	9,794.56	7,150.59	6,010.88	5,279.74
	Add for cartridge @ 1%	97.95	71.51	60.11	52.80
	Total A	9,892.51	7,222.10	6,070.99	5,332.54
	ITC @6% of A	593.55	433.33	364.26	319.95
	Total	10,486.06	7,655.42	6,435.25	5,652.49
	Overhed and Profits@15%	1,572.91	1,148.31	965.29	847.87
	TOTAL	12,058.96	8,803.74	7,400.54	6,500.37
	TOTAL(SAY)	12060	8803	7401	6500
Rate Analysis For HVAC (Propeller Fans)					
(Caryaire)					
S. NO.	Item No. 9	Unit	Quantity	100 cfm	
				IN RS.	
1	Cost of Equipment	No.	1	3373	
	Discount 20 %			674.6	
				2698.4	
2	GST@28%			755.55	
	Total			3,453.95	

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Name of Component			H.V.A.C.		
A	Add for cartridge @ 1%			34.54	
	Total A			3,488.49	
	ITC @6% of A			209.31	
	Total			3,697.80	
	Overhed and Profits@15%			554.67	
	TOTAL			4,252.47	
	TOTAL(Say)			4,252.00	
	RATE ANALYSIS : CABLES				
	ALUMINIUM AR.XLPE POWER CABLES				
NS		4C x 25 sq.mm.			
	Basic price	188.00			
	Discount @40%	75.20			
	Discounted Price	112.80			
	GST @ 28%	31.58			
	Total	144.38			
	Cartage @ 1%	1.44			
	Total	145.83			
	Add Contractor Profit @12%	17.50			
	Total after profit	163.33			
	Rounded to (Rs.)	163			
DSR 9.	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor kV grade as required. cable of 1.1				
9.1.34	4 X 25 sq. mm (28mm)	258			
	Total	421			
LT PANELS					
A		HVAC PANEL			
	Vendor Quoted price list	90500.00			
	Discount @0%	0.00			
	Discounted Price	90500.00			
	GST @ 28%	25340.00			
	Total	115840.00			
	Cartage @ 1%	1158.40			

Name of Component			H.V.A.C.		
	Total	116998.40			
	Add Contractor Profit @15%	17549.76			
	Total after profit	134548.16			
	Testing ,commissioning & installation @6%	8072.89			
	Total	142621.05			
	Rounded to (Rs.)	142622			
MCB					
A		63 A FP MCB			
	Vendor Quoted price list	2278.00			
	Discount @0%	0.00			
	Discounted Price	2278.00			
	GST @ 28%	637.84			
	Total	2915.84			
	Cartage @ 1%	29.16			
	Total	2945.00			
	Add Contractor Profit @15%	441.75			
	Total after profit	3386.75			
	Testing ,commissioning & installation @6%	203.20			
	Total	3589.95			
	Rounded to (Rs.)	3590			
	Sub Engineer J.S.C.L., Jabalpur		Executive Engineer J.S.C.L., Jabalpur		

		FORMAT - E	1	H

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-	N+1			
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDING			
S.No. of Component :-	H			
Name of Component :-	LIFTS			

Abstract Of Cost

					All Amount in Rs.	
ion C	**SOR Item NO.**	**Description Of Item**	**Unit**	**Quantity**	**Rate**	**Amount**
1	2	3	4	5	6	7
		NON SOR ITEM				
1)	NON SOR	**8 PERSON passenger lift**				
	1	Providing, installing, testing and commissioning 8 persons (544kg) Hydraulic passanger elevator having speed of .5 m /S with 2 stops/2 openings simplex microprocessor control, Car size 1300 w x 1100 deep x2100 car entrance 800 MM X 2000mm centre opening automatic glass door, car enclosure S.S. hairline finish with seven segment digital display on car landing, call register indicator and ARD for emergency power failure	each	1.00	1843000.00	1,843,000
	2	Providing, installing, testing and commissioning Hyddraulic goods elevator (844kg) Hydraulic passanger elevator having speed of .5 m /S with 2 stops/2 openings simplex microprocessor control, Car size 1000 w x 2000 deep x2100 car entrance 900 MM X 2000mm center opening automatic s.s. door one one side, car enclosure S.S. hairline finish with seven segment digital display on car landing, call register indicator and ARD for emergency power failure	each	1	1934000.00	1,934,000
						3,777,000

M/S A. WALLABH AND WALLABH ASSOCIATES
B-5/86, PASCHIM VIHAR, NEW DELHI 110063
PH 9555577554, 9718306399

Name of Component :-	LIFTS			
	Sub Engineer J.S.C.L., Jabalpur		Executive Engineer J.S.C.L., Jabalpur	

		FORMAT - E		1	H		
DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK,							
	S.No. of Project Sub Head :-		1				
	Name of Project Sub Head :-		RATE ANALYSIS				
	S.No. of Component :-		H				
	Name of Component :-		LIFTS				
RATE ANALYSIS							
1	Providing, installing, testing and commissioning 8 persons (544kg) Hydraulic passanger elevator having speed of .5 m /S with 2 stops/2 openings simplex microprocessor control, Car size 1300 w x 1100 deep x2100 car entrance 800 MM X 2000mm centre opening automatic glass door, car enclosure S.S. hairline finish with seven segment digital display on car landing, call register indicator and ARD for emergency power failure						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	Details of cost for one piece						
	Cost of Lift including installation, testing and commissioning, transportation and GST 18%	Each	1.00	1588695.00	0.00	1588695.00	
						1588695.00	
9999	Carriage of materials and Fixing Charge			nil		-	
	(i/cin material cost)						
	Total amount of materials and labour (A) + (B)=					**1588695.00**	
	Add water and electricity charges @ 1%					15886.95	
	Add 15% C.P & O.H					238304.25	
	Total					1842886.20	
	Say					**1842886.00**	
	Say					**1843000.00**	

M/S A. WALLABH AND WALLABH ASSOCIATES
B-5/86, PASCHIM VIHAR, NEW DELHI 110063
PH 9555577554, 9718306399

	Name of Component :-		LIFTS				
10	Providing, installing, testing and commissioning 13 persons (844kg) Hydraulic passanger elevator having speed of .5 m /S with 2 stops/2 openings simplex microprocessor control, Car size 1000 w x 2000 deep x2100 car entrance 900 MM X 2000mm centre opening automatic glass door, car enclosure S.S. hairline finish with seven segment digital display on car landing, call register indicator and ARD for emergency power failure						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	Details of cost for one piece						
	Cost of Lift including installation, testing and commissioning, transportation and GST 18%	Each	1.00	955000.00	0.00	1667040.00	
						1667040.00	
9999	Carriage of materials and Fixing Charge			nil		-	
	(i/cin material cost)						
	Total amount of materials and labour (A) + (B)=					**1667040.00**	
	Add water and electricity charges @ 1%					16670.40	
	Add 15% C.P & O.H					250056.00	
	Total					1933766.40	
	Say					**1933766.00**	
	Say					**1934000.00**	
	Note: Base Price of material including transportation						

Sub Engineer
J.S.C.L., Jabalpur

Executive Engineer
J.S.C.L., Jabalpur

		FORMAT - E	1	I

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-	1			
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDING			
S.No. of Component :-	I			
Name of Component :-	SOUND AND PROJECTION SYSTEM			

Abstract Of Cost

All Amount in Rs.

Providing, installing, testing and commissioning Sound system of Bose Make as per the item code given below

ion C	SOR Item NO.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	3	4	5	6	7
		NON SOR ITEMS				
A		**AUDITORIUM**				
1		Loudspeaker				
		Frequency range 52Hz-15KHz Nominal coverage pattern 120 degree horizontal * 100 degree vertical Loudspeaker EQ Active EQ required for optimal performance Power handling 240 W Sensitivity 92 Db Nominal impedance 8 ohms	EACH	6	172809.00	1036854
2		Subwoofer				
		Frequency response 40Hz – 280Hz Nominal Dispersion Omni directional below 200Hz Sensitivity 91 db SPL Long term power handling 400 W Nominal impedance 8 ohms Loudspeaker EQ Required	EACH	1	342000.00	342000
3		Monitor Loudspeakers				
		Frequency response 70Hz- 16kHz Frequency range 55Hz – 19kHz Nominal dispersion 60 degree horizontal * 120 degree vertical Long term power handling 100 W Sensitivity 91 dB SPL Nominal mpedance 8 ohm	EACH	2	106000.00	212000
4		Graphic Equaliser				

M/S A. WALLABH AND WALLABH ASSOCIATES
B-5/86, PASCHIM VIHAR, NEW DELHI 110063
PH 9555577554, 9718306399

Name of Component :-			SOUND AND PROJECTION SYSTEM			
		Frequency response 20Hz – 20kHz Signal to Noise ratio 96dB Total harmonic distortion 0.05% Control range +/-12dB Gain +/-0db Output level 1.23V	EACH	1	50500.00	50500
5		Amplifier				
		Amplifier Frequency Response 20Hz – 20kHz Signal to Noise ratio 102 db SPL Loudspeaker EQ 9 band PEQ (+/- 20db) Maximum output delay 3s Input channels 8 (balanced line level)Mains voltage 100-240 VInput to Output signal routing8*8 matrix	EACH	1	796000.00	796000
6		Amplifier				
		Amplifier Frequency response 20Hz – 20kHz Signal to Noise ratio 102 db Input to Output signal routing 4*4 matrix Maximum Output delay 3 sMaximum Input level +24dBu Mains voltage 100-240V	EACH	1	664000.00	664000
7		Allen & Heath Mixer				
		XLR Mic/Line inputs 1-16 Balanced , 48V Phantom power Input sensitivity -60 to +5dBuInput impedance >5kohm Maximum input level +19dBuDynamic range 112 dB Signal to noise ratio 90dB	EACH	2	101157.00	202314
8		Handheld Microphones Wireless				
		Working range 75m (250 ft) Audio channel response Minimum – 45Hz, Maximum – 15kHz Total harmonic distortion 0.5 percent typical Dynamic range >100db,A weighted typical RF Level switch 1mW and 10mW	EACH	4	50578.00	202312
9		Handheld Microphones Wired				
		Frequency response 70 to 15000Hz Polar pattern Cardiod Output Impedance 600ohm Sensitivity -53.5dbv/pa Type dynamic	EACH	4	50578.00	202312
10		Lapel Microphone				

Name of Component :-			SOUND AND PROJECTION SYSTEM			
		Selectable channels 8 Audio output 2 109, RPS, Sheikh Sarai – 1, New Delhi – 110017 Frequency response 60 – 20000 Hz Polar pattern Unidirectional Audio output level -50Dbv/PA Signal to noise ratio 66dB	EACH	1	50578.00	50578
11		Share Feedback Reducer				
		Frequency response 150Hz – 20kHz Low cut filter 3dB down at80Hz Common mode rejection >70db at 1kHz Input clipping level -16dBv Aux input 20Hz – 20kHz Output clipping level -22dBv	EACH	2	50578.00	101156
12		Epson EB 2265U Projector				
		Color light output 5500 lumens – 3800 lumens Resolution WUXGA ,1920*1200 , 16:10 Contrast ratio 15000:1 Aspect ratio 16:10 High definition Full HD Lamp 300W, 5000Hrs durability	EACH	2	287794.00	575588
13		Custom 150" Diagonal 16:10 Motorised Screen	EACH	1	149400.00	149400
14		Projector Mount	EACH	2	10116.00	20232
15		Rack 8U	EACH	2	23603.00	47206
		SUB TOTAL				**4652452**
		TOTAL COST OF SOUND AND PROJECTION SYSTEM				**4,652,452.00**

M/S A. WALLABH AND WALLABH ASSOCIATES
B-5/86, PASCHIM VIHAR, NEW DELHI 110063
PH 9555577554, 9718306399

		FORMAT - E		1	i		

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

	S.No. of Project Sub Head :-	1					
	Name of Project Sub Head :-	RATE ANALYSIS					
	S.No. of Component :-	i					
	Name of Component :-	SOUND AND PROJECTION SYSTEM					

RATE ANALYSIS

	Providing, installing, testing and commissioning Sound system of Bose Make as per the item code given below						
1	**Loudspeaker (2 for auditorium+4 for oat)**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piecei/c cartage	Each	1.00	102500.00	0.00	102500.00	
	wiring connectors etc	2%				2050.00	
	GST @ 28%					28700.00	
						133250.00	
	Installation charges		1.00	at 10%		13325.00	
	gst on installation			at 18%		**2398.50**	
	Total amount of materials and labour i/c installation					**148973.50**	
	Add water and electricity charges @ 1%					1489.74	
	Add 15% C.P & O.H					22346.03	
	Total					172809.26	
	Say					**172809.00**	
2	**Subwoofer 1 FOR AUDI**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	206000.00	0.00	206000.00	
	wiring connectors etc	2%				4120.00	
	GST @ 28%					57680.00	
						267800.00	

	Name of Component :-		SOUND AND PROJECTION SYSTEM				
	Installation charges		1.00	at 10%		26780.00	
	gst on installation			at 18%		**4820.40**	
	Total amount of materials and labour i/c installation					**299400.40**	
	Add water and electricity charges @ 1%					2994.00	
	Add 15% C.P & O.H					44910.06	
	Total					347304.46	
	Say					**342000.00**	
3	**Monitor Loudspeakers 2 FOR AUDI**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	64000.00	0.00	64000.00	
	wiring connectors etc	2%				1280.00	
	GST @ 28%					17920.00	
						83200.00	
	Installation charges		1.00	at 10%		8320.00	
	gst on installation			at 18%		**1497.60**	
	Total amount of materials and labour i/c installation					**93017.60**	
	Add water and electricity charges @ 1%					930.18	
	Add 15% C.P & O.H					13952.64	
	Total					107900.42	
	Say					**106000.00**	
4	**Graphic Equaliser :1 FOR Auditorium**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	30000.00	0.00	30000.00	
	wiring connectors etc	2%				600.00	
	GST @ 28%					8400.00	
						39000.00	
	Installation charges		1.00	at 10%		3900.00	
	gst on installation			at 18%		**702.00**	

	Name of Component :-		SOUND AND PROJECTION SYSTEM				
	Total amount of materials and labour i/c installation					**43602.00**	
	Add water and electricity charges @ 1%					436.02	
	Add 15% C.P & O.H					6540.30	
	Total					50578.32	
	Say					**50500.00**	
5	**Amplifier for Auditorium**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	480000.00	0.00	480000.00	
	wiring connectors etc	2%				9600.00	
	GST @ 28%					134400.00	
						624000.00	
	Installation charges		1.00	at 10%		62400.00	
	gst on installation			at 18%		**11232.00**	
	Total amount of materials and labour i/c installation					**697632.00**	
	Add water and electricity charges @ 1%					6976.32	
	Add 15% C.P & O.H					104644.80	
	Total					809253.12	
	Say					**796000.00**	
6	**Amplifier for O.A.T**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	400000.00	0.00	400000.00	
	wiring connectors etc	2%				8000.00	
	GST @ 28%					112000.00	
						520000.00	
	Installation charges		1.00	at 10%		52000.00	
	gst on installation			at 18%		**9360.00**	
	Total amount of materials and labour i/c installation					**581360.00**	
	Add water and electricity charges @ 1%					5813.60	

	Name of Component :-		SOUND AND PROJECTION SYSTEM				
	Add 15% C.P & O.H					87204.00	
	Total					674377.60	
	Say					**664000.00**	
7	**Allen & Heath Mixer :1 for Audi1 For OAT**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	60000.00	0.00	60000.00	
	wiring connectors etc	2%				1200.00	
	GST @ 28%					16800.00	
						78000.00	
	Installation charges		1.00	at 10%		7800.00	
	gst on installation			at 18%		**1404.00**	
	Total amount of materials and labour i/c installation					**87204.00**	
	Add water and electricity charges @ 1%					872.04	
	Add 15% C.P & O.H					13080.60	
	Total					101156.64	
	Say					**101157.00**	
8	**Handheld Microphones Wireless 2 for Audi+2 for OAT**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	30000.00	0.00	30000.00	
	wiring connectors etc	2%				600.00	
	GST @ 28%					8400.00	
						39000.00	
	Installation charges		1.00	at 10%		3900.00	
	gst on installation			at 18%		**702.00**	
	Total amount of materials and labour i/c installation					**43602.00**	
	Add water and electricity charges @ 1%					436.02	
	Add 15% C.P & O.H					6540.30	
	Total					50578.32	
	Say					**50578.00**	

M/S A. WALLABH AND WALLABH ASSOCIATES
B-5/86, PASCHIM VIHAR, NEW DELHI 110063
PH 9555577554, 9718306399

	Name of Component :-		SOUND AND PROJECTION SYSTEM				
9	**Handheld Microphones Wired 2 for Audi+2 for OAT**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	30000.00	0.00	30000.00	
	wiring connectors etc	2%				600.00	
	GST @ 28%					8400.00	
						39000.00	
	Installation charges		1.00	at 10%		3900.00	
	gst on installation			at 18%		**702.00**	
	Total amount of materials and labour i/c installation					**43602.00**	
	Add water and electricity charges @ 1%					436.02	
	Add 15% C.P & O.H					6540.30	
	Total					50578.32	
	Say					**50578.00**	
10	**Lapel Microphone**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	30000.00	0.00	30000.00	
	wiring connectors etc	2%				600.00	
	GST @ 28%					8400.00	
						39000.00	
	Installation charges		1.00	at 10%		3900.00	
	gst on installation			at 18%		**702.00**	
	Total amount of materials and labour i/c installation					**43602.00**	
	Add water and electricity charges @ 1%					436.02	
	Add 15% C.P & O.H					6540.30	
	Total					50578.32	
	Say					**50578.00**	
11	**Share Feedback Reducer**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**

	Name of Component :-		SOUND AND PROJECTION SYSTEM				
	detail of cost of one piece	Each	1.00	30000.00	0.00	30000.00	
	wiring connectors etc	2%				600.00	
	GST @ 28%					8400.00	
						39000.00	
	Installation charges		1.00	at 10%		3900.00	
	gst on installation			at 18%		**702.00**	
	Total amount of materials and labour i/c installation					**43602.00**	
	Add water and electricity charges @ 1%					436.02	
	Add 15% C.P & O.H					6540.30	
	Total					50578.32	
	Say					**50578.00**	
12	**Epson EB 2265U Projector : 1 Audi+1 top**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	170702	0.00	170702.00	
	wiring connectors etc	2%				3414.04	
	GST @ 28%					47796.56	
						221912.60	
	Installation charges		1.00	at 10%		22191.26	
	gst on installation			at 18%		**3994.43**	
	Total amount of materials and labour i/c installation					**248098.29**	
	Add water and electricity charges @ 1%					2480.98	
	Add 15% C.P & O.H					37214.74	
	Total					287794.01	
	Say					**287794.00**	
13	**Custom 150" Diagonal 16:10Motorised Screen**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	90000.00	0.00	90000.00	

	Name of Component :-		SOUND AND PROJECTION SYSTEM				
	wiring connectors etc	2%				1800.00	
	GST @ 28%					25200.00	
						117000.00	
	Installation charges		1.00	at 10%		11700.00	
	gst on installation			at 18%		**2106.00**	
	Total amount of materials and labour i/c installation					**130806.00**	
	Add water and electricity charges @ 1%					1308.06	
	Add 15% C.P & O.H					19620.90	
	Total					151734.96	
	Say					**149400.00**	
14	**Projector Mount**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	6000.00	0.00	6000.00	
	wiring connectors etc	2%				120.00	
	GST @ 28%					1680.00	
						7800.00	
	Installation charges		1.00	at 10%		780.00	
	gst on installation			at 18%		**140.40**	
	Total amount of materials and labour i/c installation					**8720.40**	
	Add water and electricity charges @ 1%					87.20	
	Add 15% C.P & O.H					1308.06	
	Total					10115.66	
	Say					**10116.00**	
14	**Rack 8u 1 for Audi+a for OAT**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	14000.00	0.00	14000.00	
	wiring connectors etc	2%				280.00	
	GST @ 28%					3920.00	
						18200.00	

	Name of Component :-		SOUND AND PROJECTION SYSTEM				
	Installation charges		1.00	at 10%		1820.00	
	gst on installation			at 18%		**327.60**	
	Total amount of materials and labour i/c installation					**20347.60**	
	Add water and electricity charges @ 1%					203.48	
	Add 15% C.P & O.H					3052.14	
	Total					23603.22	
	Say					**23603.00**	
	LIST OF APPROVED MAKES			BOSE, L-ACOUSTICS, DNB			
	Sub Engineer J.S.C.L., Jabalpur			Executive Engineer J.S.C.L., Jabalpur			

		FORMAT - E			1	i

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-	1			
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDIN			
S.No. of Component :-	I			
Name of Component :-	FURNITURE			

Abstract Of Cost

					All Amount in Rs.	
ion C	SOR Item NO.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	3	4	5	6	7
		NON SOR ITEMS				
I	Providing and installing furniture of Godrej make or equivalent with same specifications as per the item code of Godrej given below					
A	NON SOR	AUDITORIUM				
1		Pushback Auditorium seats				
		The seat rest assembly to be of 1.2 +/- 0.1 cm thick flat plywood moulded with polyurethane foam & upholstered with 3 layered foam laminated fabric and injection moulded cover. The seat should auto tip off & should fold, when not in use. Seat size to be 45.00 cm W x 48.50 cm D x 14.50 cm T The back rest assembly to be of 1.2 +/- 0.1 cm thick flat plywood upholstered with 3 layered foam laminated fabric, the foam to be designed with contoured lumbar support for extra comfort. Back size of 47.50 cm W x 80.00 cm H x 12.50 cm T The High resilence polyurethane foam for seat & back should be moulded with a density = 48 +/- 2kgs/m3. The leg frame assembly is to be fabricated from MS tube of 6.0 +/- 0.03 cm x 4.0 +/- 0.03 cm x 2.0 +/- 0.16 cm welded with a grouting member. It should be black powder coated & should be grouted to the floor using anchors.	EACH	189	21,198.00	4,006,422

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PH 9555577554, 9718306399

Name of Component :-			FURNITURE			
		The armrest made up of black integral polyurethane with 65 +/- 10 shore "A" hardness & reinforced with MS insert fixed with leg frame, the armrest should be scratch & weather resistant & shoul have provision for holding cups. The armrest cladding should be made of 0.9 +/- 0.05 cm thick particle board & upholstered with fabric. All steel parts to be epoxy powder coated with DFT of 40-60 microns.				
2		VIP Sofas -4 Seater (2+2)				
		Sofa 2 seater Proving & Fixing 2 seater - Size: 141cm(W) x 77.5cm(D) x 74.5cm(H), Seat height (SH): 41.5 cm. LH/RH Side Frame: The LH/Rh side frame is fitted to the two ends of the seat/back mounting frame to form the leg assembly. It is made of SS J4 Grade tube Dia 4.44cm x 1.5mm thick. Seat/Back mounting Frame: the seat/back mounting frame assy. Holds the two side frames together. The mounting frames 2 nos. Are used to connect the side frames. The mounting frame is made of MS. E.R.W. Tube 5.08+_0.03cm(dia) x 3.15+_0.0252cm(thk) black painted. The seat/back is mounted on 4.0+_0.03cm x 2.0+_0.02cm x 0.2+_0.016cm M.S. Rectangular tube which is welded on the beam of seat/back mounting frame. Seat/back Assembly :				
		Seat/back Assembly : The Seat/back Assemblyconsists of 1.2+_0.1cm thk plywood insert with polyurethene foam having density 45 +_ 2 kg/m3 and the hardness of the P.U. Foam = 18 to 22 kg on Hampden m/c for 25% compression of the foam. The complete moulded seat/back assembly is covered with a replaceable fabric upholstrey. The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant. Approved Make: Godrej / Herman Miller / Haworth / Knoll	EACH	4	61000.00	244.000

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Name of Component :-			FURNITURE			
3		VIP Sofas -5 Seater				
		Specificateion same as ite,m no 2 but seat size of 3 seater : 181cm x 77.5cm(D) x 74.5cm(H), and size of 2 seater is 141cm(W) x 77.5cm(D) x 74.5cm(H),	EACH	4	70500.00	282,000
4		Chairs				
		The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam is designed with contoured lumbar support for extra comfort. SIZE: 65.0cm. (W) X 65.0cm. (D) X 90.0 – 102.5cm(H), SEAT SIZE: 44.0cm. X 56.5m. The polyurethane foam is moulded with density = 45 +/-2 kg/m3 & Hardness = 20 +/- 2 on Hampden machine at 25% compression. The one-piece armrests made of black integral skin polyurethane with 50-70 Shore Hardness and reinforced with M.S. insert. The armrests are scratch and weather resistant. The armrests are fitted to the seat with seat armrest connecting bracket made of 0.3 cm. thk. HR steel. The pneumatic height adjustment has an adjustment stroke of 10 cm.	EACH	20	7689.78	153,796
		The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. The pedestal is made of moulded plastic (polypropylene) with metal insert and fitted with 5nos. twin wheel castors (castor wheel dia. 5.0cm.). The pedestal is 66.0-cm. pitch-center dia. (76.0 cm with castors). The twin wheel castors are injection moulded in 30% Glass Filled black Nylon.	EACH	20	7700.00	154,000
5		Sofa -3 Seater				

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B-5/86, PASCHIM VIHAR, NEW DELHI 110063
PH 9555577554, 9718306399

Name of Component :-			FURNITURE			
		Sofa 3 seater Proving & Fixing 3 seater - Size: 183.0cm(W) x 77.5cm(D) x 74.5cm(H), Seat height (SH): 41.5 cm. LH/RH Side Frame: The LH/Rh side frame is fitted to the two ends of the seat/back mounting frame to form the leg assembly. It is made of SS J4 Grade tube Dia 4.44cm x 1.5mm thick. Seat/Back mounting Frame: the seat/back mounting frame assy. Holds the two side frames together. The mounting frames 2 nos. Are used to connect the side frames. The mounting frame is made of MS. E.R.W. Tube 5.08+_0.03cm(dia) x 3.15+_0.0252cm(thk) black painted. The seat/back is mounted on 4.0+_0.03cm x 2.0+_0.02cm x 0.2+_0.016cm M.S. Rectangular tube which is welded on the beam of seat/back mounting frame. Seat/back Assembly : The Seat/back Assemblyconsists of 1.2+_0.1cm thk plywood insert with polyurethene foam having density 45 +_ 2 kg/m3 and the hardness of the P.U. Foam = 18 to 22 kg on Hampden m/c for 25% compression of the foam.	EACH	12	58671.00	704,052
		The complete moulded seat/back assembly is covered with a replaceable fabric upholstrey. The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant. Approved Make: Godrej / Herman Miller / Haworth / Knoll				
6		Side Table (300x300)	EACH	18	4689.00	84,402
		The corner table is of dimension 45mm W x 45mm D x 46mm H and the corner table is in revolving can be used as the center table also with top Glass of black painted toughened and base of toughened glass.				
7		Coffee Table (900x450)	EACH	2	8102.00	16,204
8		Coffee Table (900x900)	EACH	1	11328.00	11,328
9		Lockers (1300mm)				

Name of Component :-			FURNITURE			
		Providing & Fixing 4 Door Locker Unit - Product Size: 380mm(W) x 450mm(D) x 1830mm(H) Models: 4 Door (Add on units), Stackability The add-on units can be stacked width wise to form bank of lockers having common side panel. Locking § 10 Lever cam lock with lock lever, Material: CRCA 0.6mm Thickness Construction: Rigid knockdown construction. Shelf Uniformly Distributed Load Capacity per each shelf level is 35 Kg maximum.Finish: Epoxy Polyester Powder coated to the thickness of 50 Microns (+/-10). Handle / Label holder · Aesthetically appealing Snap fit ABS plastic Handle. Plastic label holder for identification Ventilation Attractive punched pattern for ventilation Approved Make: Godrej / Herman Miller / Haworth / Knoll	EACH	3	37552.00	112,656
10		Reception Counter				
		(Work top)Rubber Wood Top:- Clean matt PU finish 18mm thick Inside radius 700.0 mm Outside radius – 1350.0 mm Depth – 650 mm,Cork:-Rubberized cork – 18mm thick,Glass:-Frosted Glass 10mm thick Diamond cut finishing on edges Inside Radius – 1202.5mm Outside radius – 1402.5 mm Depth – 200mm,Modesty Panel:-MS Perforated sheet Below Worksurface : 0.8 mm (thick) x 665.0 mm (height) x 1345.0 mm (flat length) Above Worksurface : 0.8mm (Thick) x 260 mm (height) x 1345.0 mm (flat length),Legs:-MS tube 1.6 mm thick Diameter 50.8 mm Height 604 mm	EACH	1	159008.00	159,008
11		chair				

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Name of Component :-			FURNITURE			
		The seat and back are made up of 1.2 cm thick hot pressed plywood, upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam is designed with contoured lumbar support for extra comfort. The polyurethane foam is moulded with density = 45 +/-2 kg/m3 & Hardness = 20 +/- 2 on Hampden machine at 25% compression. The one-piece armrests made of black integral skin polyurethane with 50-70 Shore Hardness and reinforced with M.S. insert. The armrests are scratch and weather resistant. The armrests are fitted to the seat with seat armrest connecting bracket made of 0.3 cm. thk. HR steel. The pneumatic height adjustment has an adjustment stroke of 10 cm. The bellow is 3 piece telescopic type and injection moulded in black Polypropylene.	EACH	24	11144.00	267,456
		The pedestal is made of moulded plastic (polypropylene) with metal insert and fitted with 5nos. twin wheel castors (castor wheel dia. 5.0cm.). The pedestal is 66.0-cm. pitch-center dia. (76.0 cm with castors). The twin wheel castors are injection moulded in 30% Glass Filled black Nylon.SIZE: 64.0cm. (W) X 64.0cm. (D) X 81.0 – 93.5cm (H), SEAT SIZE: 42.0cm. X 54.5cm.				
12		work desk 600x1200	EACH	4	14867.00	59,468
13		work desk 1350x750	EACH	2	17841.00	35,682
14		Filing Cabinet				
		File Cabinets - 3700mm	EACH	3	25033.00	75,099
		File Cabinets - 1300mm	EACH	2	25033.00	50,066
		File Cabinets - 2500mm	EACH	2	10000.00	20,000
		File Cabinets - 2500mm	EACH	2	10000.00	20,000
15		Executive Chairs	EACH	2	7194.00	14,388
		SUB TOTAL				6,470,027
		TOTAL QUOTATION				**6,470,027**
		approved makes			**Godrej / Herman Miller / Haworth / Knoll**	

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Name of Component :-			FURNITURE			
		Sub Engineer J.S.C.L., Jabalpur			Executive Engineer J.S.C.L., Jabalpur	

M/S A. WALLABH AND WALLABH ASSOCIATES
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		FORMAT - F			1	I	
DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK,							
	S.No. of Project Sub Head :-		1				
	Name of Project Sub Head :-		RATE ANALYSIS				
	S.No. of Component :-		I				
	Name of Component :-		FURNITURE				
RATE ANALYSIS							
1	same specifications as per the model nos of Godrej given below						
1	**Pushback Auditorium seats**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	Details of cost for one piece						
	Cost of seat	Each	1.00	14276.9	0.00	14276.90	
	GST @ 28%					3997.53	
						18274.43	
	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					**18274.43**	
	Add water and electricity charges @ 1%					182.74	
	Add 15% C.P & O.H					2741.16	
	Total					21198.34	
	Say					**21198.00**	
2	**VIP Sofas -4 Seater**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	Details of cost for one piece						
	Cost of Sofa	Each	1.00	41134	0.00	41134.00	
	GST @ 28%					11517.52	
						52651.52	
	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					**52651.52**	
	Add water and electricity charges @ 1%					526.52	

ode	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Add 15% C.P & O.H					7897.73	
	Total					61075.76	
	Say					**61000.00**	
3	**VIP Sofas -5 Seater**						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	Details of cost for one piece						
	Cost of Sofa	Each	1.00	**47377**	0.00	47377.00	
	GST @ 28%					13265.56	
						60642.56	
	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					**60642.56**	
	Add water and electricity charges @ 1%					606.43	
	Add 15% C.P & O.H					9096.38	
	Total					70345.37	
	Say					**70500.00**	
4	**GREEN ROOM Chairs**						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Cost of chair	Each	1.00	5179	0.00	5179.00	
	GST @ 28%					1450.12	
						6629.12	
	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					**6629.12**	
	Add water and electricity charges @ 1%					66.29	
	Add 15% C.P & O.H					994.37	
	Total					7689.78	
	Say					**7700.00**	
5	**Sofa -3 Seater**						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference

ode	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost for one piece	Each	1.00	39463.6	0.00	39463.60	
	GST @ 28%					11049.81	
						50513.41	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					50513.41	
	Add water and electricity charges @ 1%					505.13	
						51018.54	
	Add 15% C.P & O.H					7652.78	
	Total					58671.32	
	Say					58671.00	
6	**Side Table (300x300)**						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost for one piece						
	Cost of Lift	Each	1.00	3153.7	0.00	3153.70	
	GST @ 28%					883.04	
						4036.74	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					4036.74	
	Add water and electricity charges @ 1%					40.37	
						4077.10	
	Add 15% C.P & O.H					611.57	
	Total					4688.67	
	Say					4689.00	
7	**Coffee Table (900x450)**						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost for one piece	Each	1.00	5449.4	0.00	5449.40	

ode	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	GST @ 28%					1525.83	
						6975.23	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					6975.23	
	Add water and electricity charges @ 1%					69.75	
						7044.98	
	Add 15% C.P & O.H					1056.75	
	Total					8101.73	
	Say					8102.00	
8	**Coffee Table (900x900)**						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost for one piece	Each	1.00	7619.7	0.00	7619.70	
	GST @ 28%					2133.52	
						9753.22	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					9753.22	
	Add water and electricity charges @ 1%					97.53	
						9850.75	
	Add 15% C.P & O.H					1477.61	
	Total					11328.36	
	Say					11328.00	
9	**Lockers (1300mm)**						
Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Details of cost for one piece	Each	1.00	25258.2	0.00	25258.20	
	GST @ 28%					7072.30	
						32330.50	

Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					32330.50	
	Add water and electricity charges @ 1%					323.30	
						32653.80	
	Add 15% C.P & O.H					4898.07	
	Total					37551.87	
	Say					37552.00	
10	Reception Counter						
	Details of cost for one piece	Each	1.00	106951.9	0.00	106951.90	
	GST @ 28%					29946.53	
						136898.43	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					136898.43	
	Add water and electricity charges @ 1%					1368.98	
						138267.42	
	Add 15% C.P & O.H					20740.11	
	Total					159007.53	
	Say					159008.00	
11	**Chair for Reception Counter**						
	Details of cost for one piece	Each	1.00	7495.4	0.00	7495.40	
	GST @ 28%					2098.71	
						9594.11	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					9594.11	
	Add water and electricity charges @ 1%					95.94	
						9690.05	
	Add 15% C.P & O.H					1453.51	

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Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Total					11143.56	
	Say					11144.00	
12	office tables1200x600						
	Details of cost for one piece	Each	1.00	10000	0.00	10000.00	
	GST @ 28%					2800.00	
						12800.00	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					12800.00	
	Add water and electricity charges @ 1%					128.00	
						12928.00	
	Add 15% C.P & O.H					1939.20	
	Total					14867.20	
	Say					14867.00	
13	office tables1350x750						
	Details of cost for one piece	Each	1.00	12000	0.00	12000.00	
	GST @ 28%					3360.00	
						15360.00	
	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					15360.00	
	Add water and electricity charges @ 1%					153.60	
						15513.60	
	Add 15% C.P & O.H					2327.04	
	Total					17840.64	
	Say					17841.00	
14	**File Cabinets - 3700mm**						
	Details of cost for one piece	Each	1.00	16837.7	0.00	16837.70	
	GST @ 28%					4714.56	
						21552.26	

ode	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					21552.26	
	Add water and electricity charges @ 1%					215.52	
						21767.78	
	Add 15% C.P & O.H					3265.17	
	Total					25032.95	
	Say					25033.00	
15	**File Cabinets - 1300mm**						
	Details of cost for one piece	Each	1.00	16837.7	0.00	16837.70	
	GST @ 28%					4714.56	
						21552.26	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					21552.26	
	Add water and electricity charges @ 1%					215.52	
						21767.78	
	Add 15% C.P & O.H					3265.17	
	Total					25032.95	
	Say					25033.00	
16	File Cabinets - 1400mm						
	Details of cost for one piece	Each	1.00	16837.7	0.00	16837.70	
	GST @ 28%					4714.56	
						21552.26	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					21552.26	
	Add water and electricity charges @ 1%					215.52	
						21767.78	
	Add 15% C.P & O.H					3265.17	
	Total					25032.95	

ode	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Say					25033.00	
17	**File Cabinets - 2500mm**						
	Details of cost for one piece	Each	1.00	16837.7	0.00	16837.70	
	GST @ 28%					4714.56	
						21552.26	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					21552.26	
	Add water and electricity charges @ 1%					215.52	
						21767.78	
	Add 15% C.P & O.H					3265.17	
	Total					25032.95	
	Say					25033.00	
18	File Cabinets - 2500mm						
	Details of cost for one piece	Each	1.00	16837.7	0.00	16837.70	
	GST @ 28%					4714.56	
						21552.26	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					21552.26	
	Add water and electricity charges @ 1%					215.52	
						21767.78	
	Add 15% C.P & O.H					3265.17	
	Total					25032.95	
	Say					25033.00	
19	Office Tables						
	Details of cost for one piece	Each	1.00	10734.9	0.00	10734.90	
	GST @ 28%					3005.77	
						13740.67	
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	

ode	Discription	Unit	Qty	Rate	Discount	Amount	Reference
	Total amount of materials and labour (A) + (B)=					13740.67	
	Add water and electricity charges @ 1%					137.41	
						13878.08	
	Add 15% C.P & O.H					2081.71	
	Total					15959.79	
	Say					15960.00	
20	Executive Chairs						
	Details of cost for one piece	Each	1.00	4838.9	0.00	4838.90	
	GST @ 28%					1354.89	
						6193.79	

Code	Discription	Unit	Qty	Rate	Discount	Amount	Reference
9999	Carriage of materials and Fixing Charge		(i/cin material cost)			-	
	Total amount of materials and labour (A) + (B)=					6193.79	
	Add water and electricity charges @ 1%					61.94	
						6255.73	
	Add 15% C.P & O.H					938.36	
	Total					7194.09	
	Say					7194.00	
	Sub Engineer J.S.C.L., Jabalpur			Executive Engineer J.S.C.L., Jabalpur			

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B-5/86, PASCHIM VIHAR, NEW DELHI 110063
PH 9555577554, 9718306399

		FORMAT - E	N+1	q

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

S.No. of Project Sub Head :-	N+1			
Name of Project Sub Head :-	Cost of construction of AUDITORIUM BUILDING			
S.No. of Component :-	q			
Name of Component :-	CCTV SECURITY SYSTEM			

Abstract Of Cost

All Amount in Rs.

ion C	SOR Item NO.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	3	4	5	6	7
		SOR ITEMS				
A		NON SOR				
1		16CH NVR STANDALONE FAST LAN QUALITY with followin features: Third-party network cameras supported • Up to 6 Megapixels resolution recording • HDMI and VGA output at up to 1920×1080P resolution • 4/8-ch network cameras can be connected detection, including network delay, packet loss, etc.	EACH	1	20604.00	20604
2		32CH NVR STANDALONE with following features: Third-party network cameras supported • Up to 6 Megapixels resolution recording • HDMI and VGA output at up to 1920×1080P resolution • 4/8-ch network cameras can be connected detection, including network delay, packet loss, etc.	EACH	1	34368.00	34368
3		3 MP IR BULLET / DOME IP CAMERA 3 megapixel high resolution , HD real-time video 3D DNR & DWDR & BLC, IR LEDs: up to 30m IP66 ,Compact design	EACH	45	6730.00	302850
4		4U Rack for NVR BOX Make : confirming to isi specifications	SET	1	4886.00	4886
5		4 TB Hard Disk Drive Make : Seagate / WD / Toshiba	EACH	3	13488.00	40464

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Name of Component :-			CCTV SECURITY SYSTEM			
6		Gigabyte 8 Port POE Switch Make : Digisol / D Link / ISI	EACH	7	10460.00	73220
7	MPPWD 38.11	Suppling and drawing 4 pair shielded, 0.5 mm PVC.Insulated copper conductor un-armoured Cat-6 computer cable FR in existing surface / concealed ,steel / PVC. Conduit/Casing-N- Capping as required.	EACH	435	46.00	20010
8	MPPWD SOR	Supplying and fixing PVC conduit ISI marked along with the accessories in concealed system etc. as required				
	15.2	25mm conduit (HMS)	101 me	435	51	221.85
	15.3	32mm Conduit (HMS)	102 me	10.00	72	7.2
		SUB TOTAL				
						496,631
		Sub Engineer J.S.C.L., Jabalpur			Executive Engineer J.S.C.L., Jabalpur	

		FORMAT - F			1	I	

DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

	S.No. of Project Sub Head :-		1				
	Name of Project Sub Head :-						
	S.No. of Component :-		I				
	Name of Component :-		FURNITURE				

RATE ANALYSIS

1	16CH NVR STANDALONE FAST LAN QUALITY with followin features: Third-party network cameras supported • Up to 6 Megapixels resolution recording • HDMI and VGA output at up to 1920×1080P resolution • 4/8-ch network cameras can be connected detection, including network delay, packet loss, etc.						
Code	**Discription**	**Unit**	**Qty**	**Rate**	**Discount**	**Amount**	**Reference**
	detail of cost of one piece	Each	1.00	14970	0.00	14970.00	
	GST @ 18%					2694.60	
						17664.60	
	Installation charges		1.00	at .5%		74.85	as per field observation
	Total amount of materials and labour i/c installation					**17739.45**	
	Add water and electricity charges @ 1%					177.39	
						17916.84	
	Add 15% C.P & O.H					2687.53	
	Total					20604.37	
	Say					**20604.00**	
2	32CH NVR STANDALONE with following features: Third-party network cameras supported • Up to 6 Megapixels resolution recording • HDMI and VGA output at up to 1920×1080P resolution • 4/8-ch network cameras can be connected detection, including network delay, packet loss, etc.						
	detail of cost of one piece	Each	1.00	24970	0.00	24970.00	
	GST @ 18%					4494.60	
						29464.60	
	Installation charges		1.00	at .5%		124.85	as per field observation

		FORMAT - F			1	I	
	Total amount of materials and labour i/c installation					**29589.45**	
	Add water and electricity charges @ 1%					295.89	
						29885.34	
	Add 15% C.P & O.H					4482.80	
	Total					34368.15	
	Say					**34368.00**	
3	3 MP IR BULLET / DOME IP CAMERA 3 megapixel high resolution , HD real-time video 3D DNR & DWDR & BLC, IR LEDs: up to 30m IP66 ,Compact design						
	detail of cost of one piece	Each	1.00	4890	0.00	4890.00	
	GST @ 18%					880.20	
						5770.20	
	Installation charges		1.00	at .5%		24.45	as per field observation
	Total amount of materials and labour i/c installation					**5794.65**	
	Add water and electricity charges @ 1%					57.95	
						5852.60	
	Add 15% C.P & O.H					877.89	
	Total					6730.49	
	Say					**6730.00**	
4	4U Rack for NVR BOX Make : confirming to isi specifications						
	detail of cost of one piece	Each	1.00	3550	0.00	3550.00	
	GST @ 18%					639.00	
						4189.00	
	Installation charges		1.00	at .5%		17.75	as per field observation
	Total amount of materials and labour i/c installation					**4206.75**	
	Add water and electricity charges @ 1%					42.07	
						4248.82	
	Add 15% C.P & O.H					637.32	
	Total					4886.14	
	Say					**4886.00**	
5	4 TB Hard Disk Drive Make : Seagate / WD / Toshiba						
	detail of cost of one piece	Each	1.00	9800	0.00	9800.00	
	GST @ 28%					1764.00	

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						11564.00	
	Installation charges		1.00	at .5%		49.00	as per field observation
	Total amount of materials and labour i/c installation					**11613.00**	
	Add water and electricity charges @ 1%					116.13	
						11729.13	
	Add 15% C.P & O.H					1759.37	
	Total					13488.50	
	Say					**13488.00**	
6	Gigabyte 8 Port POE Switch Make : Digisol / D Link / ISI						
	detail of cost of one piece	Each	1.00	7600	0.00	7600.00	
	GST @ 28%					1368.00	
						8968.00	
	Installation charges		1.00	at .5%		38.00	as per field observation
	Total amount of materials and labour i/c installation					**9006.00**	
	Add water and electricity charges @ 1%					90.06	
						9096.06	
	Add 15% C.P & O.H					1364.41	
	Total					10460.47	
	Say					**10460.00**	
	Sub Engineer J.S.C.L., Jabalpur			Executive Engineer J.S.C.L., Jabalpur			

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DETAILED ESTIMATE FOR INTIMATE THEATRE AT BHAWARTAL PARK, JABALPUR, M.P.

	S.No. of Project Sub Head :-	N + 1			
	Name of Project Sub Head :-	Cost of construction of SITE SERVICES			
	S.No. of Component :-	K			
	Name of Component :-	External Water Supply			

Abstract Of Cost

All Amount in Rs.

ision Ch	SOR Item NO.	Description Of Item	Unit	Quantity	RATE	Amount
1	2	3	4	5	6	7
SOR ITEMS						
1	23.12 UADD	Providing and fixing G.I. pipe complete with G.I. Fittings i/c trenching and refilling etc complete in external work				
	23.12.6	50 mm dia. nominal bore	Rm	250.00	361.00	90250.00
		borewell				
2	16.2 MPPWD	Boring/drilling bore well of required dia perfectly vertical to receive casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.				
	16.1.1	all types of soil				
	16.1.1.3	200 mm nominal size dia.	meter	30.00	451.00	13530.00
	16.1.2	Rocky strata i/c boulders				
	16.1.2.3	200 mm nominal size dia.	meter	60.00	690.00	41400.00
3	16.2 MPPWD	Boring/drilling bore well of required dia perfectly vertical to receive casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire and running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre depth below ground level.				
	16.2.2	Rocky strata i/c boulders				
	16.2.2.3	200 mm nominal size dia.	meter	160.00	715.00	114560.00

	Name of Component :-		External Water Supply			
4	16.5 MPPWD	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed and approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer- in-charge.				
	16.5.1	100 mm nominal size dia having minimum wall thickness 4.50 mm	meter	100.00	795.00	79500.00
5	16.6 MPPWD	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed /plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire and labour charges, fittings and accessories, all complete, for all depths, as per direction of Engineer -in-charge.				
	16.6..1	100 mm nominal dia.(minimum wall thickness 5mm)	meter	150.00	376.00	56400.00
6	16.7 MPPWD	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading and sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	30.00	947.00	28410.00

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