SUMMARY SHEET ESTIMATE FOR CONSERVATION WORK OF GANDHI BHAWAN LIBRARY PHASE -I TOTAL **CONSERVATION WORK** (Conservation of Gandhi 1 Bhawan Library 2,31,44,177.84 CIVIL WORK (for Additional Library Block & Toilet 2 60,49,403.25 Block) LANDSCAPE WORK (Front & Back side Block Only) 19,62,270.47 3 ELECTRICAL & PLUMBING WORK (Gandhi Bhawan Library & New Block Only Conduiting and 4 26,10,501.84 point wiring In electrical Work & Complete Plumbing for New Block) AIR-CONDITIONING WORK (Gandhi Bhawan 5 57,79,832.00 Library & New) TOTAL PHASE-I 3,95,46,185.40 CONTENGENCIES @ 5% 19,77,309.27 **GRAND TOTAL** 4,15,23,494.67

	SUMMARY OF COST	
	ESTIMATE FOR CONSERVATION WORK OF GANDHI BHAWAN LIBRA	RY
	DI 4	
	Phase -1	
S.NO	DESCRIPTION	AMOUNT (IN RS.)
Α	Conservation Works (Library block)	
	Removal and Dismentalling Works	9,32,011.74
	Traditional Massonry Work Consolidation Work	12,40,065.00
		3,93,000.00
	Traditional Roofing and Water proofing works	47,15,532.80
	Repair and New Door Window Works	47,11,748.60
	Flooring and Plinth Protection Work	20,56,616.00
	Finishing Works Including Plaster,stucco and Lime Kara	75,58,360.00
	Misc.Work Including Parapet /chajja works	10,70,690.00
9	Scaffolding and support frame work	4,46,818.50
	SUB TOTAL A	2,31,44,177.84
В	Civil Works (Additional New block)	
1	Removal and Dismentalling Works	1,04,065.50
2	Massonry Work	13,73,344.20
3	Roofing works	14,21,269.20
4	New Door Window Works	18,77,848.65
5	Flooring and Plinth Protection Work	7,06,707.60
	finishing Works Including Plaster /Paint	2,39,926.50
7	Misc.Work	3,26,241.60
	SUB TOTAL B	60,49,403.25
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С	Landscape work (Front & New block side Court)	
	Civil works, Pathway Drivway ,Railling and Drains	17,08,715.90
	Horticulture	1,50,643.26
3	Rain water Harwesting	1,02,911.31
	SUB TOTAL C	19,62,270.47
	SUB TOTAL A+B+C(CIVIL)	3,11,55,851.56
D	Electrical & Plumbing Works (Library & New block)	
	Internal Electrical Instalations (Conduiting and Point Wiring for old block	
4	and Primery fixture new block)	19,59,134.40
	Plumbing works toilet block	6,51,367.44
	HVAC (Supply and low side)	57,79,832.00
3	Triving (Supply and low side)	31,18,032.00
	SUB TOTAL D(ELECTRICAL)	83,90,333.84
	TOTAL (A.D.C.D)	2.05.46.405.40
	TOTAL (A+B+C+D)	3,95,46,185.40
E	CONTINGENCY @ 5%	19,77,309.27
	GRAND TOTAL	4,15,23,494.67

	NOTES	Estimate for Conservation Works of Gandhi			-				
	NOTES:	Item include all leads /lift and cariage etc,from work area to site ya	rd includ	na proper sta	ecking of the re use	able meterials			
	1	Them mended an reliably fire and entangle electronic work area to site yaird including proper stateling of the re-at-ance materials.							
	2	All Item of works are considered inclusive of scaffolding /shuttering /support structure/electricity and water etc as required instructed by Site Engineer /Consultants .							
	All demolition /dismantaliing work done carefully as per direction of engineer in charge and includes cost of safety measure /use of specified equipment for workers of building applicable to complete the work.								
Item	Ref.	Description	Qty	Unit	Rate	AMOUNT			
1.0		REMOVAL & DISMANTLING							
1.1	MP UADD SOR 15.2.1	Demolishing cement concrete(below any finishing layer sand stone/ basalt stone / ceramic / vinayal flooring), steps,blockadge manually including disposal of material within 50 mtr lead as per direction of Engineer - in charge. 15.2.1 1:3:6 or richer mix	75	CUM	475.00	32,062.50			
1.2	MP UADD SOR 15.7.4	Demolishing moduler/ lakhori/traditional (of any brick size) brick work manually in lime /cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead 15.7.4 In cement mortar	80	CUM	401.00	28,872.00			
1.3		Dismanteling basalt ashlar stone /sand stone slab/floor /pavement / by manual means including stacking of the serviceable material and disposal of unserviceable material up to a lead of 50 mtr .	260	SQM	52.00	12,168.00			
1.4	Non Schd1	Carefully scrapping and removing of multiple layers of white wash enamel paint, distemper, oil paint, algae, etc. from plain plaster and surfaces gently with care to keep old designs intact .as per prescribed process and specification. Item includes cost of safety measure /use of specified equipment for workers required to complete the work.(Overall length and width will be measured for the purpose of payment)	760	SQM	110.00	83,600.00			
1.5	Non Schd2	Careful dismantling of old lime plaster/cement plaster from walls of the heritage structure without damaging the stone work/brick work /historic fabric of the building including raking out of joints and cleaning the surface thoroughly. Item includes cost of safety measure /use of specified equipment for workers required to complete the work and disposal of rubbish to the dumping ground/ work yard within the site by mannual means including all leads, lifts and carriage as per direction of Consultants /engineer inchrge.(Overall length and width will be measured for the purpose of payment)	1800	SQM	161.00	2,89,800.00			

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
1.6	MP UADDSOR 15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:				
	15.13.1	Of area 3 sq. metres and below	99	EACH	27.00	2,405.70
	15.13.2	Of area beyond 3 sq. metres	53	EACH	36.00	1,717.20
1.7	MP UADD SOR 15.39.3		75	SQM	18.00	1,215.00
1.8	MP UADD SOR 15.23.1	Dismantling tile work in floor sand roof s laid in cement mortar including stacking material within 50 meters lead. 15.23.1 For thickness of tiles upto 25 mm	255	SQM	18.00	4,131.00
1.9	JOB Work	Removal of all Electrical wire, nails, screw, additional clamps on wall, casing /exposed pvc conduits, additional clamps on chajja, electrical fixtures, lights, boxes, cartoon, bench, drum, plumbing (internal & external) taps, G.I. pipes, etc. from the site and stacking serviceable materials, as directed by Engineer inchrge/Consultants, and including all leads, lifts and carriage. All complete. Item includes cost of safety measure /use of specified equipment for workers required to complete the work.	1	JOB WORK	25000.00	25,000.00
1.10	JOB Work	Removal of all old plumbing (internal & external) including wc, washbasin,urinal, taps ,water cooler ,C.I/GI./ PVC/CPVC asbestos (all size and dia)pipes external/ internal area from the site and stacking serviceable materials, as directed by Engineer inchrge/ Architect, and including all leads, lifts and carriage. All complete. Item includes cost of safety measure /use of specified equipment for workers required to complete the work.	1	JOB WORK	25000.00	25,000.00
1.11	Non schd. 54	De vegetation from the monuments by chemical injection of Round Up (arsenic base) compound and subsequently uprooting by physical means without damaging the historic fabric and structure of the building under strict supervision of conservation architect/site inchrge.	9	SQM	650.00	5,697.00
1.12	MP UADD SOR 2.31	Clearing jungle including uprooting of rank vegetation, grass, bush wood, trees and saplings of girth upto 30cm measured at a height of 1m above ground level and removal of rubbish upto a lead of 100 mts.	660	SQM	3.41	2,025.54

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
1.13	Non schd. 62	Cutting and uprooting of trees growing on heritage structure and /or near them (causing damage to the historic fabric) by manual or machenical means in stages without damaging the historic fabric of the structure, including uprooting roots by diging of ground and filling the pits with earth as per instruction of conservation architect/site incharge.	4	NO.S	5000.00	20,000.00
1.14	MP UADD SOR 15.28	Careful dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
	15.28.1	G.S. Sheet .	240	SQM	32.00	6,912.00
1.15	MP UADD SOR 15.18	Dismantling steel work in built up sections in angles,tees,flats and channels including all gusset plates,bolts,nuts,cutting rivets,weldingetc. including dismembering and stacking within 50meters lead.	200	KG	1.00	180.00
1.16	MP UADD SOR 2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil	330	CUM	129.00	38,313.00
2.0		MALBA REMOVAL				
2.1	NON SOR 74 (Derived by mp sor 2014)	beautiful to 13 km) of as approved by Engineer-in-charge,	920	CUM	339.09	3,11,962.80
3.0		ROOF DISMANTLING				
3.1	MP UADD SOR 15.19	Dismantling steel work manually/by mechanical means in built up sections without dis membering and stacking within 50 meters lead as per direction of Engineer-in-charge.	16190	KG	1.00	14,571.00
3.2	MP UADD SOR 15.1	Demolishing lime concrete manually/by mechanical means and disposal of material within 50 meters lead as per direction of Engineer in charge.	60	CUM	166.00	8,964.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
3.3	MP UADD SOR 15.26	Demolishing brick tile covering(Note- brick tile on edge and vaulted) interracing including stacking of serviceable material and disposal of unserviceable material within 50 meters lead.	600	SQM	20.00	10,800.00
3.4	MP UADD SOR 15.27	Demolishing mud phaska in terracing and disposal of material within 50 meters lead.	40	CUM	178.00	6,408.00
4.0		MASONRY WORK				0.00
4.1.1		Traditional brick masonry with special brick size in lime mortar in propotion similar to the existing traditional lime mortar (lime putty -surkhi 1:2) after removing the damaged and out of plumb masonry from the historic structure, as directed by Engineer incharge/ Consultants, and including all leads, lifts and carriage. All complete.				0.00
	Non schd.5	Brick work for superstructure for all heights	60	CUM	7260.00	4,21,200.00
	Non schd.6	Brickwork in ornamental pillars	11	CUM	8000.00	84,865.00
	Non schd.7	Brick masonry for arches with special size traditional bricks	10	CUM	8700.00	84,000.00
4.2	Non schd.8	Ornamental traditional brick masonry in mouldings and cornices (upto 30 cm in projection and 30 cm in depth as per traditional practice) in lime mortar similar to the existing traditional lime mortar (lime putty- surkhi 1:2) after removing the damaged and out of plumb masonary from the vertical surfaces, as directed by Engineer incharge/ Consultants, and including all leads, lifts and carriage. All complete.	500	RMT	1335.00	6,50,000.00
		CONSOLIDATION WORK				0.00
4.3	Non schd.9	Stitching the cracks in brick masonry using brick and lime mortar matching/toothing with the traditional lime mortar and bricks as existing size and type joinry courses in the historic structure after raking, cleaning and washing the cracks, as directed by Engineer incharge/ Consultants, and including all leads, lifts and carriage. All complete.	28	CUM	11500.00	3,15,000.00
4.4	Non schd.10	Stitching of Modular brickwork by inserting sand stone/basalt stone plate as approved of size 600 X 300 X 100 MM at identified locations by engineer in charge / Consultants and grouting the area with rich lime mortar 1:1 (1 lime: 1 Surkhi) including preparing like cutting out brickwork, teething, cleaning, grouting etc. For all heights and stacking of malba within 100 mtr lead.	30	NO.S	1380.00	40,500.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
4.5	Non schd.11	Consolidation of Lime plaster with grouting, after removal of loose materials and filling the gaps with lime mortar, 1:2 (Lime putty: surkhi) tightly and using pressure grouting technique if required.	75	SQM	510.00	37,500.00
5.0		ROOFING				0.00
5.1	MP UADD SOR 10.1	Structural steel (I Sections) work in single section fixed with or without connecting plate including cutting hoisting, fixing in position and applying a priming coat of approved steel primer, as directed by Engineer incharge/ Consultants, and including all leads, lifts and carriage. All complete.	13000	KG	59.00	6,90,300.00
5.2	Non schd.13	Providing, hoisting and laying of stone base plate of size (450X 600X 150 MM) under I sections/wooden beams on the end wall for placing the structural steel/wooden beam, as per the specification.	184	NO.S	1600.00	2,83,360.00
5.3	Non schd.16	Construction of brick vaulted roof as per old design of thickness of 230 mm (or as per design)and bearing of 250 mm using special size bricks in lime surkhi mortar 1: 2 (1 lime: 2 surkhi) including scaffolding/shuttering/centering and form work for temporary support structure required for the construction as directed by conservation consultants/site-in-charge at all heights, including all leads and lifts. (Plan area of internal walls of constructed vault to be measured for the purpose of payment)	400	SQM	2230.00	8,82,000.00
5.4	Non schd.17	Lime concrete (for terraces as a filler between vaults) in the ratio of 1:1:1:4 (1 Lime: 1 Surkhi : 1Coarse sand : 4 graded brick aggregate 40 mm nominal size). Item includes cost of shuttering /scaffolding /safety measure /use of specified equipment for workers required to complete the work	60	CUM	5470.00	3,21,300.00
5.5	Non schd.18	Relaying /replacement of stone tiles/brocken stone slab from the roof .Item includes cost of shuttering /scaffolding /safety measure /use of specified equipment for workers of building applicable to complete the work.	225	SQM	300.00	66,150.00
5.6	Non schd.53	Providing and laying twin layer brick tiles over wooden planks, as directed by Engineer incharge/ Consultants, and including all leads, lifts and carriage. All complete.	620	SQM	800.00	4,69,960.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
5.7		Lime plaster 20 mm thick 1:1 (1 slaked Lime: 1 surkhi) on over the stone slab of desired level of app sheet including organic additives like sugarcane molasses, extracts of beil,maithi, etc. as per traditional practices. Item includes cost of shuttering /scaffolding /safety measure /use of specified equipment for workers required to complete the work.	620	SQM	370.00	2,25,060.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
5.8.1	NON SOR DSR 2016 22.20.1	providing and laying APP modified pree fabricated 5 layers 3 mm thick water proffing membrane ,black finished reinforced with non woven polyster matt consisting of a coat of bitumin primer for botumen membrane @.4 ltr /sq mtr by the same membrane manufacture of density at 25 degree centigrade ,0.87-0.89 kg/lt and viscosity of 70-160 cps .the laying of membrane shall be got done through authorised applicator of the manufacturer of membrane 22.20.1 3 mm thick	680	SQM	417.10	2,55,265.20
5.8.2	NON SOR DSR 2016 22.21	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	680	SQM	76.65	46,909.80
5.9	Non schd.20	Providing and laying of 150 to 200 mm thick lime dhar on roofing as per traditional practice in 1:2:2:2 (1 lime: 2 sand: 2 old lime powder: 2 brick aggregate 12mm to 40mm nominal size) using methi, gur, hemp, belgiri etc. including beating and temping as per specification. Ramming for minimum 10 days and curing for min 30 days, as directed by Engineer incharge/ Consultants, and including all leads, lifts and carriage. All complete.	705	SQM	1280.00	8,86,185.00
5.10		10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat: 12.16.1 With common burnt clay F.P.S.(non modular) brick tile of class designation 10	620	SQM	596.70	3,32,958.60
5.11	NON SOR -75	Providing gola 75mm x 75mm in lime concrete 1:2:2:2 (1 lime: 2 surkhi: 2 old lime powder: 2 brick aggregate 12mm to 20 mm nominal size) using methi, gur, hemp, belgiri etc. including beating and temping as per specification.	260	MTR	123.00	31,980.00
5.12	Non schd. 22	Making Khurra for 450X 450 mm with 18 mm lime mortar as a base, over additional layer of APP waterproofing layer and sealing all edges,including stone slab of size 600x450x.075 mm (as per detail) complete in all respect.	24	ЕАСН	1680.00	39,360.00
5.13	Non schd. 23	Providing and fixing sand stone water spout as per traditional design with overhang of not less than 600 mm and made from single piece stone as per drawing.	24	ЕАСН	1855.00	42,960.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
5.14	Non schd. 24	WATER DOWN DRAIN PIPE - Providing and fixing CI PIPE of 150 mm dia with all fixing accessories including clamps, angle, screw, nut bolt and required cutting and chiseling etc. as per the instruction of site engineer/ architect. Item includes cost of shuttering/scaffolding/safety measures/ use of specified equipments for workers of building required to complete the work.	120	mtr	1200.00	1,38,000.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
6.0		REFIX /REPAIR DOORS/WINDOW /VENTILATORS AND OTHER WOODEN ITEMS				0.00
6.1	Non schd. 25	Repairing of frame and re fixing the frames of doors, windows, clerestory windows, ventilators, other frames and wrought frame werever frame is damge /broken / detoriated is replaced with 1st class well seasoned chemically treated teak wood (of approved quality), as per traiditional wooden joinry of members, and fixed in position with the help of holdfasts / traditional holdfast / handmade nails etc. Item inclusive of carving /ingraving of pattens on frames werever missing/damage/latter added is replaced as per orignal detail/drawing and removal of multiple layer of paint /enamel paint repeatedly on the frame as prescribe process and specification and finish with primer and Redoxide as of appropriate shade as approved by the Engineer In-charge. including all leads, lifts and carriage upto all heights. Item also includes Anti termite treatment of wood before fixing the frame at site, coating/painting of section of embedded timber coming into contact with masonry with tar application/ solignum. Measurement of final finished product will be used for the purpose of volume calculation and for payments.	10	CUM	42470.00	3,86,400.00
6.2	Non schd. 26	Repair of existing colour glass doors, windows and semi circuler ventilators (as per original / existing design) is damge /broken / detoriated is replaced with 1st class well seasoned and chemically treated teak wood (of approved quality) single/ double leaves 40-50 mm thick fully/partialy glazed openable shutters, panneling of door in wood /glass using 6mm thick Clear float Glass of Saint Gobain or equivalent make ,for doors/windows/ventilator as per the existing original design and pattern /or design as per drawing instructed by the Consultants including all necessary fitting/ hardware like screws, nails, metal spikes ,ornamented nails ,metal patterns of flower, metal ribets , parliamentary hinges, tower bolts, handles, traditional handmade ms nails, traditional locking system ,decorative features(butt hinges/tower bolt/ handle /door Aldrop/lock) of the same design, size and weight, etc . Item to also include making all the mouldings and design of the panels werever missing/damage/latter added is replaced as in the original detail with all beading, patti,carving,marking , as per size given/ orignal existing detail/ drawing of shutter /pannel and removal of multiple layer of paint /enamel paint repeatedly on the shutter as prescribe process and specification and finish with primer and Redoxide as approved by the Engineer In-charge/ Consultants .Item also includes Anti termite treatment of wood including all leads, lifts and carriage upto all heights.Mode of Measurement: Area of the door/window which is changed or made new in the entire door shall only be paid. Contractors to not charge the entire area of the shutter unless the entire shutter is made new. The area of the shutter includes the entire opening with all the leaves.	250	SQM	6,630.00	15,62,500.00
7.0		NEW DOORS/WINDOW /VENTILATORS				0.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
7.1	Non schd. 27	Providing and fixing 1st class well seasoned and chemically treated Teak wood (of approved quality) work in frames of doors, windows, clerestory windows, ventilators, other frames and wrought frame of approved size, as per traiditional wooden joinry of members, and fixed in position in traditional detail/manner with the help of holdfasts / traditional holdfast / handmade nails etc. Item is inclusive of carving /ingraving of pattens on fames as per existing patterns on original frames / detail drawing and finish with primer and redoxide as approved by the Engineer In-charge/ Consultants. Item also include all leads, lifts and carriage upto all heights including necessary framework/scafolding etc required to complete the task. Contractor to ensure that moisture content of wood is well within IS codes and Any timber found unseasoned shall be rejected. All timber to be free of knots, cracks etcItem also includes Anti termite treatment of wood before fixing the frame at site, coating/painting of section of embedded timber coming into contact with masonry with tar application/ solignum. Measurement of final finished product will be used for the purpose of volume calculation and for payments.	7.0	CUM	2,25,752	13,11,975.00
7.2	Non schd. 28	Providing and fixing NEW colour glass doors, windows and semi circuler ventilators (as per original / existing design) shutters of 1st class well seasoned and chemically treated teak wood (of approved quality) single/ double leaves 40-50 mm thick fully/partialy glazed openable shutters, panneling of door in wood /glass using 6mm thick Clear float Glass of Saint Gobain or equivalent make ,for doors/windows/ventilator as per the existing original design and pattern /or design as per drawing / as instructed by the Consultants including all necessary fitting/ hardware like screws, nails,metal spikes ,ornamented nails ,metal patterns of flower, metal ribets , parliamentary hinges, tower bolts, handles, traditional MS handmade nails, traditional locking system (hook and chain), decorative features (butt hinges/tower bolt/ handle /door Aldrop/lock) of the same design, material, size and weight, etc . Item to also include making all the mouldings and design of the panels as in the original detail with all beading, patti, carving, marking, as per original existing designs and size of shutters. shutters/panel should be finished from all sides with Redoxide of appropriate shade as approved by the Engineer In-charge / Consultants . Item also include all leads, lifts and carriage upto all heights including necessary framework/scafolding etc required to complete the task. Contractor to ensure that moisture content of wood is well within IS codes and Any timber found unseasoned shall be rejected. All timber to be free of knots, cracks etcItem also includes Anti termite treatment of wood before fixing the frame at site, coating/painting of section of embedded timber coming into contact with masonry with tar application/ solignum. Overall Length and width of the shutter /panel will be measured of final finished product for the purpose of area calculations & payments.	182.0	SQM	9,050	14,74,200.00
8.0		FLOORING				0.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
8.1	Non schd. 34	Restoration, cleaning and patch repair of existing Mossaic flooring at central area as per traditional Art Deco pattern and design existing at site following same process and procedure to match color and shade with the existing using mossaic chips flooring, rubbed and polished to granolithic finish, under layer of 100 mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 12.5 mm nominal size) and top layer 9mm thick with colored marble chips of sizes from 4 mm to 7 mm nominal size, laid in cement marble powder mix 3:1 (3 cement: 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder: 7 marble chips) by volume. Light shade pigment with white cement to match with existing mossaic flooring in colour, design and pattern.	200	SQM	3500.00	5,95,000.00
8.2	Non schd.	Restoration/repairing of sand stone flooring of existing floors including replacement/patch work of damaged stone by using original size stone ,werever required . item inclusive of removal of damage stone and base work and fixing of new stone as per site .	260	SQM	1950.00	4,82,300.00
8.3	Non schd. 29	Providing and laying Hand dressed sand stone flooring of size 300x450x100mm or asapproved over 20 mm (average) thick base of lime Mortar 1:2 (1 Slaked lime:2 coarse sand) including flush pointing with Lime Mortar with an admixture of pigment to match the shade of stone, Joints between stones should be less than 12 mm. pattern & design as per Consultants ural drawing.	252	SQM	2400.00	5,79,600.00
8.4	Non schd. 31	Sub base for flooring: sub- base of 50mm thick bed of local sand/morum/hard copra evenly spread and rammed brick ballast bed 150mm thick with lime mortar in equal proportion, as directed by Engineer incharge/ Consultants, and including all leads, lifts and carriage. All complete.	512	SQM	360.00	1,78,176.00
8.5	Non schd. 32	Plinth Protection- Providing and laying of the modular brick tile on edge flooring on 20mm thick lime concrete leveling course laid over the sub- base of 50mm thick bed of local sand evenly spread and rammed with joints finished and flushed with bricks of class designation 150, on a bed of 12 mm lime surkhi mortar (1:2), including filling the joints with same mortar over the sub-base 150 mm thick of brick ballast (40 mm nominal size), filled with lime mortar 1:2 of equal quantity levelled and compacted as per the instruction of site engineer/ architect.	190	SQM	1200.00	2,21,540.00
9.0		FINISHING				0.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
9.1	Non schd. 35	Lime plaster 15 to 40 MM thickness on flat wall/vertical surfaces Providing and application of Lime – surkhi Plaster 1:1 (1 slaked Lime: 1 surkhi) on wall surfaces of thickness between 15 to 40 MM including organic additives like sugarcane molasses, extracts of beil,maithi, etc. as per traditional practices. The preparation of mortar is to be done following traditional practice includes using chakki/garat (wet grinding of lime and sand by heavy stone mill / chakki/garat), application of mortar in 3 layers with last layer of 6 MM thick, with a gap of minimum 3 days and not more than 10 days from previous layer. The item rate includes application of Loi, tampering, beating, reworking of plaster till the shrinkage cracks disappear and desired finish achieved and curing for 10 days. Item also includes all lead and lift, establishing work yard / chakki, scaffolding, formwork tools and implements etc.	1440	SQM	730.00	10,38,240.00
9.2	Non schd. 36	Lime plaster 5 to 10 MM thickness on ceiling and curved surfaces. Providing and application of Lime – surkhi Plaster 1:1 (1 slaked Lime: 1 surkhi) on wall surfaces of thickness between 5 to 10 MM including organic additives like sugarcane molasses, extracts of beil,maithi, etc. as per traditional practices. The preparation of mortar is to be done following traditional practice includes using chakki/garat (wet grinding of lime and sand by heavy stone mill / chakki/garat), application of mortar in single layers, with a gap of minimum 3 days and not more than 10 days from previous layer. The item rate includes application of Loi, tampering, beating, reworking of plaster till the shrinkage cracks disappear and desired finish achieved and curing for 10 days. Item also includes all lead and lift, establishing work yard / chakki, scaffolding, formwork tools and implements etc.	1440	SQM	880.00	12,39,840.00
9.3	Non schd. 37	Decorative plaster work in lime surkhi mortar (1:2) as per traditional practice and design, the mortar should be prepared by the grinding mill only. The thickness varying from 10mm to 100mm as per design, as directed by Engineer incharge/Consultants, and including all leads, lifts and carriage. All complete.	360	SQM	1225.00	4,36,680.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
9.4	Non schd. 38	Providing new decorative Stucco work in lime, sand, Surkhi mortar (1:2:1), 20 - 40mm thick as per existing design work/ traditional practices by skilled craftsman, the stucco work should be done as per restoration nature, the mortar should be prepared by grinding mill adding gur,methi & gugal. Sample of the design and details of the decorative stucco work to be shown to the Consultants for necessary approvals before finalizing and finishing the same in Lime and Sand plaster in proportions 1:2 with the same not more than 10mm in thickness and a final coat of 5mm Thick lime putty. Item to be paid only for the part of the design made in new plaster and not the entire panel. Item to include curing for 21 days using water pumps or any other necessary methods to avoid any surface cracks. In case of development of surface cracks, the same to be redone as part of rectification works to achieve the necessary level of finish as directed by Consultants or Engineer in charge. Item to include all necessary tools, scaffold if required etc. complete	380	SQM	2360.00	8,91,100.00
9.5	Non schd. 39	Providing & applying Lime kara 1:2 (1lime cream : 2 Zikki powder) grinding mortar with grinding mill/manually on lime base,on all flat surface in two coats. First coat applying 3mm to 4mm thick and curing properly at least 7 days, second finishing coat done after 7days of previous coat as per traditional practice. (thickness not more than 6 mm.)	2200	SQM	960.00	20,63,600.00
9.6	Non schd. 40	Providing & applying Lime kara 1:2 (1lime cream : 2 Zikki powder) grinding mortar with grinding mill/manually (on lime sand/sand plaster base) on ceilling /curved lime plaster in two coats. First coat applying 3mm to 4mm thick and curing properly at least 7 days, second finishing coat done after 7days of previous coat as per traditional practice. (thickness not more than 6 mm.	690	SQM	1090.00	7,39,680.00
9.7	Non schd. 41	Providing lime kara on decorative/ornamental surfaces or embellishments as per decorative /ornamental designs as per old existing carving on surface highly precise	740	SQM	1570.00	11,49,220.00
10.0		OTHER WORKS				0.00
10.1	Non schd. 45	Cleaning ,Painting(with two coat of enamel paint over base coat of primer) and antirust treatment of old grill ,metal balustrade and jaali of balcony etc Jali paint of treasury	60	SQM	100.00	5,940.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
10.2	Non Schd.63	Repair of cuplas/ kiosks over parapet of size 400x 400x500 mm In brick work with proper carving and decoration including lime plaster and stuco work finished with kara at desired location of parapet .stainless steel rod of 10 mm dia and upto 750 mm length shall be used as an anchor in the construction. Item includes cost of shuttering /formwork/ scaffolding /safety measure /use of specified equipment for workers of building required to complete the work	39	EACH	500.00	19,500.00
10.3	Non Schd.64	Making of cuplas/ kiosks over parapet of size 400x 400x500 mm In brick work with proper carving and decoration including lime plaster and stuco work finished with kara at desired location of parapet .stainless steel rod of 10 mm dia and upto 750 mm length shall be used as an anchor in the construction. Item includes cost of shuttering /formwork/ scaffolding /safety measure /use of specified equipment for workers of building required to complete the work	1	EACH	5000.00	5,000.00
10.4	Non Schd. 42	Construction of Parapet, with new or salvaged materials, in brickwork as per original designs existing at site / designs provided by site engineer, of height upto 800 MM and width upto 450 MM including decorative brickwork, at desired location, Item includes lime concrete coping (1:1 lime surkhi mortar with 10MM brick aggregate)/brick coping on top of the parapet, 6mm thick lime surkhi plaster 1:1(1 lime :1 surkhi) and lime Kara (not more than 3 mm thick) on all surfaces, all sides, curved and decorative elements, pillars, balustrade, Copings, handrail etc. as per decorative ornamental designs. Item also includes cost of shuttering /formwork/ scaffolding /safety measure /use of specified equipment for workers of building required to complete the work. Design of Parapet may change at each level of building and is part of the Item. (Running length of the parapet at the interior base towards terrace side will be measured for payment of this item)	205	MTR	2870.00	5,82,200.00
10.5	Non Schd. 46	Supplying and fixing rough dressed stone 'dasa' stone parapet covering wall of size width 600x thickness 100 mm , cornices sriwan, string courses etc. in cement mortar 1:4 including pointing with admixture of pigment matching with the stone shade .Patch work as required including all lead ,lift upto all height.	5	MTR	1,750.00	8,400.00

Restoration of existing "Central dome " at front facade on site of the same design & size as per the original. Hem to include fathericating the damaged balasters, piers, decronative brackets, paraper thambif, dasa, chattri, jaali, arches etc. as per the original decitals and design on size, including preparing necessary base for fixing the missing elements or fixing the same elements after repair using \$5 dowels, filling all gaps and repair all major/minor cracks above and hevel in lime mortar including connecte of chattra by \$S dowels/manual stichning/ realignment/ using adhesive for yeary minor cracks as a directed by the Consultants to Engineer-in-charge. Item to include, getting approval of samples of any missing elements from the Consultants before fixing the same on site. Item to include all necessary looks, hardware exc. Mode of Measurement: The item to be paid as per the complete pharokha including from top point of pinacle to last point of hanging kiosk as one job. Providing and fixing of brass finial over kiosk/cuplas/dome as per approved design, size of 50 mm dia 300mm long, with all fixing accessories, Item to include all necessary hardware, scaffolding etc. complete Providing and fixing double sacffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manuner as per requirement of site, made with 40mm dia MS. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock systems with MS. Tubes, MS. tube challs, MS. champs and staticase system in the scaffolding in stepped manuner as per requirement of site, made with 40mm dia MS. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock systems with MS. Tubes, MS. tube challs, MS. champs and staticase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work at required locations with essential safety features for	Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
10.7 Non Schd.65 Sch	10.6	2	the same design & size as per the original. Item to include fabricating the damaged balusters/ piers, decorative brackets, parapet thambli, dasa, chattri, jaali, arches etc. as per the original details and design on site, including preparing necessary base for fixing the missing elements or fixing the same elements after repair using SS dowels, filling all gaps and repair all major/ minor cracks above arch level in lime mortar including cornice of chattri by SS dowels/manual stiching/ realignment/ using adhesive for very minor cracks as directed by the Consultants or Engineer-incharge. Item to include, getting approval of samples of any missing elements from the Consultants before fixing the same on site. Item to include all necessary tools, hardware etc. Mode of Measurement: The item to be paid as per the complete jharokha including from top point of pinacle to last point of hanging kiosk	1		300000.00	3,00,000.00
Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose. (2) The payment will be made once only for execution of all items for	10.7		per approved design ,size of 50 mm dia 300mm long, with all fixing acessories , Item to include all necessary hardware,	41	NO.S	5000.00	1,49,650.00
the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose. (2) The payment will be made once only for execution of all items for	11.0		SCAFFOLDING & SUPPORT FRAME				0.00
Grand Total 2,31,44,177.84	11.1	NON SOR	the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose. (2) The payment will be made once only for execution of all items for such works.	3100	SQM	160.15	

	Est	imate for Civil Works of Gandhi Bhawan Library A	ddition	al Block	, Jabalpur	
	NOTES:					
	1	All Item of works are considered inclusive of all leads and lift for a	ll height :	and distance	S .	
	2	All Item of works are considered inclusive of scaffolding /shutterin required / instructed by Site Engineer /Consultants .	ng /supp	ort structure	/electricity and	d water etc as
	3	All demolition /dismantaliing work done carefully as per direction measure /use of specified equipment for workers of building applic	_	_		cost of safety
Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
1.0		REMOVAL & DISMANTLING				
1.1	MP UADD SOR 15.2.1	Demolishing cement concrete(below any finishing layer sand stone/ basalt stone / ceramic / vinayal flooring) ,steps,blockadge manually including disposal of material within 50 mtr lead as per direction of Engineer - in charge. 15.2.1 1:3:6 or richer mix	75	CUM	475.00	32,062.50
1.2	MP UADD SOR 15.7.4	Demolishing moduler/ lakhori/traditional (of any brick size) brick work manually in lime /cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead 15.7.4 In cement mortar	80	CUM	401.00	28,872.00
1.6	MP UADDSOR 15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:				0.00
	15.13.1	Of area 3 sq. metres and below	5	EACH	27.00	121.50
1.8	MP UADD SOR 15.23.1	Dismantling tile work in floor sand roof s laid in cement mortar including stacking material within 50 meters lead. 15.23.1 For thickness of tiles upto 25 mm	60	SQM	18.00	972.00
1.16	MP UADD SOR 2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil	54	CUM	129.00	6,269.40
1.17	MP UADD SOR 2.25	Filling by available excavated earth (excluding rock)in trenches, plinth, sides of foundation setc .in layers not exceeding 20 cm indepth, consolidating each deposited layer by ramming and watering ,lead upto 50 m and lift upto 1.5 m.	22	CUM	59.00	1,168.20

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
1.18	MP UADD SOR 15.3 (MOD)	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - incharge.	4	CUM	694.00	2,498.40
1.19	MP UADD SOR 15.5	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer in- charge.	26	SQM	222.50	5,206.50
1.20	MP UADD SOR 15.6	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work.	440	KG	2.00	792.00
		MALBA REMOVAL				0.00
2.1	NON SOR-74 (Derived by mp sor 2014)	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground(upto 15 km) or as approved by Engineer-in-charge, beyond 100 m initial lead, for all leads including all lifts involved. The rates will be applicable to net quantities after deduction of prescribed percentage for voids mentioned in the specification under subhead "Carriage of materials".	77	CUM	339.09	26,103.00
4.0		MASONRY WORK				
4.1.2	MP UADD SOR 6.1.1	Brick work with well burnt chimney bricks in bull spatent trench kiln manifactured by ghol process,crushingstrength not less than 40kg/sq cm and water absorption not more than 15% in foundation and plinth. Cement mortar 1:4 (1 cement : 4 coarse sand)	56	CUM	4439.00	2,23,725.60
4.1.3	MP UADD SOR 6.3.1	Brick work with chimeny brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in : Cement mortar 1:4(1 cement : 4 coarse sand)	203	CUM	4547.00	8,30,736.90
4.6	MP UADD SOR 6.6	Brick work in plain arches in superstructure including centering and shuttering complete for span up to 6 meters with of class designation 40 in cement mortar 1:3 (1 cement : 3 coarse sand).	3	CUM	6825.00	18,427.50

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
4.7	MP UADD SOR 6.7	Brick work in gauged arches in superstructure in cement mortar1:3(1cement:3coarses and)including centering and shuttering complete, for span up to 6 meters with of class designation 40.	29	CUM	7782.00	2,03,110.20
4.8	MP UADD SOR 6.8	Extra for additional cost of centering for arches exceeding 6m span including all shuttering, bolting, wedging and removal. (Area of the soffit to be measured).	210	SQM	412.00	77,868.00
4.9	MP UADD SOR 6.9.1	Half brick masonry with ofclass designation 40 in foundation and plinth in. Cement mortar 1:3 (1 cement : 3 coarse sand)	40	SQM	541.00	19,476.00
		ROOFING				
4.10	MP UADD SOR 5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases up to floor two level excluding the cost of centering, shuttering, finishing and reinforcement with Cement concrete grade M-20(Nominal Mix with 20 mm maximum size of stone aggregate).	115	CUM	5120.00	5,29,920.00
4.11	MP UADD SOR 5.20.1	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Mild steel and Medium Tensile steel bars (10 m and 12 mm dia bars)	12600	kg	60.00	6,80,400.00
4.12	MP UADD SOR 20.1.3	Centering and shuttering including strutting, propping etc. and removal of form for all heights :Suspended floors, roofs, landings, balconies and access platform.	720	sqm	227.00	1,47,096.00
5.0		OVER -ROOFING				0.00
5.11	MP UADD SOR 12.21.1	Providing gola75x75 mm in cement concrete M-15 with aggregate 10 mm and down gaug eincluding finishing with cement mortar 1:3 (1cement:3finesand)as per standard design: 12.21.1 In 75x75mm deep chase	142	MTR	84.00	10,735.20
5.12	MP UADD SOR 12.22	Making khurras 45x45 cm with average minimum thickness of 5 cmcement concrete M-15 with aggregate of 20 mm nominal size over P.V.C. sheet 1mx1mx400 micron, finished with 12 mm cement plaster1:3 (1cement:3 coarse sand) and a coat of neat cement rounding the edge sand making and finishing the outlet complete.	8	EACH	137.00	986.40

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
5.13	MP UADD SOR 12.37.1	Providing and fixing 100mm dia meter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand). 12.37.1 Stone ware spout	8	EACH	53.00	381.60
5.14	Non schd. 24	WATER DOWN DRAIN PIPE - Providing and fixing CI PIPE of 150 mm dia with all fixing accessories including clamps, angle, screw, nut bolt and required cutting and chiseling etc. as per the instruction of site engineer/ architect. Item includes cost of shuttering/scaffolding/safety measures/ use of specified equipments for workers of building required to complete the work .	45	mtr	1200.00	51,750.00
7.0		NEW DOORS/WINDOW /VENTILATORS				
7.1	Non schd. 27	Providing and fixing 1st class well seasoned and chemically treated Teak wood work in frames of doors, windows, clerestory windows, ventilators, other frames and wrought frame of approved size, as per traiditional wooden joinry of members, and fixed in position in traditional detail/manner with the help of holdfasts / traditional holdfast / handmade nails etc. Item is inclusive of carving /ingraving of pattens on fames as per existing patterns on original frames / detail drawing and finish with primer and redoxide as approved by the Engineer In-charge/ Consultants. Item also include all leads, lifts and carriage upto all heights including necessary framework/scafolding etc required to complete the task. Contractor to ensure that moisture content of wood is well within IS codes and Any timber found unseasoned shall be rejected. All timber to be free of knots, cracks etcItem also includes Anti termite treatment of wood before fixing the frame at site, coating/painting of section of embedded timber coming into contact with masonry with tar application/ solignum. Measurement of final finished product will be used for the purpose of volume calculation and for payments.	5.5	CUM	2,25,752	10,30,837.50

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
7.2	Non schd. 28	Providing and fixing NEW glass doors, windows and semi circuler ventilators (as per original / existing design) shutters of 1st class well seasoned and chemically treated teak wood single/ double leaves 40-50 mm thick fully/partialy glazed openable shutters, panneling of door in wood /glass using 6mm thick Clear float Glass of Saint Gobain or equivalent make ,for doors/windows/ventilator as per the existing original design and pattern /or design as per drawing / as instructed by the Consultants including all necessary fitting/ hardware like screws, nails,metal spikes ,ornamented nails ,metal patterns of flower, metal ribets , parliamentary hinges, tower bolts, handles, traditional MS handmade nails, traditional locking system (hook and chain), decorative features (butt hinges/tower bolt/ handle /door Aldrop/lock) of the same design, material, size and weight, etc . Item to also include making all the mouldings and design of the panels as in the original detail with all beading, patti, carving, marking, as per original existing designs and size of shutters. shutters/panel should be finished from all sides with Redoxide of appropriate shade as approved by the Engineer In-charge / Consultants . Item also include all leads, lifts and carriage upto all heights including necessary framework/scafolding etc required to complete the task. Contractor to ensure that moisture content of wood is well within IS codes and Any timber found unseasoned shall be rejected. All timber to be free of knots, cracks etcItem also includes Anti termite treatment of wood before fixing the frame at site, coating/painting of section of embedded timber coming into contact with masonry with tar application/ solignum. Overall Length and width of the shutter /panel will be measured of final finished product for the purpose of area calculations & payments.	87.0	SQM	9,050	7,04,700.00
7.3	MP UADD SOR 9.1.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position 9.1.1 :Second class teak wood	1.5	CUM	83,137	1,12,234.95
7.4	MP UADD SOR 9.21.1	Providing and fixing ISI marked flush door shutters conforming to IS:2202(PartI)non-decorative type,core of block board construction with frame of 1st class hardwood and well matched commercial 3 ply veneering with vertical grain s or crossband sand face veneers on both faces of shutters using following hinges. 9.21.1 35 mm thick including ISI markedS tainless Steel butthinges with necessary screws.	22.0	SQM	1,519	30,076.20
8.0		FLOORING				
8.5	Non schd. 32	Providing and laying 75 mm thick fine dressed sand stone paving over 20 mm (average) thick base of lime mortar 1:2 (1lime: 2 surkhi) with joints finished flush with bricks of class designation 150 on a bed of 12 mm lime surkhi mortar(1:2), including filling the joints with same mortar over the subbase 150mm thick of brick ballast (40 mm nominal size), filled with lime mortar 1:2 of equal quantity levelled and compacted as per the instruction of site engineer/architect.	93	SQM	1200.00	1,08,438.00

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
8.6	MP UADD SOR 11.39.2	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption' slessthan 0.08% and conforming to IS:15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar1:4(1cement :4 coarse sand)including grouting the joints with white cement and matching pigments etc., complete. 11.39.2 Size of Tile 60x60 cm x 10 mm	400	SQM	1109.00	3,99,240.00
8.7	MP UADD SOR 11.21.1	Providing and fixing 10mm thick acid and or alkali resistant tiles of approved make and colour using acid and or alkali resisting mortar bedding and joints filled with acid and or alkali resisting cement as per IS:4457 complete as per the direction of Engineer-in- Charge. 11.21.1 In flooring on a bed of10 mm thick mortar1:4(1acidproof cement:4 coarse sand). Acid and alkali resistant tile.	68.0	SQM	1,078	65,973.60
8.8	MP UADD SOR 11.21.2	In dado/skirting on 12 mmt hick mortar1:4(1acidproof cement: 4 coarse sand). 11.21.1 Acid and alkali resistant tile.	132.0	SQM	1,120	1,33,056.00
9.0		FINISHING				
9.8.1	MP UADD SOR 13.9	12 mm cement plaster 1:3(1cement: 3coarse sand)finished with a floating coat of neat cement.	615	SQM	143.00	79,150.50
9.8.2	MP UADD SOR 13.23.2	Extra for plastering on circular work not exceeding 6 m in radius: 13.23.2 In two coat	80	SQM	155.00	11,160.00
9.8.3	MP UADD SOR 13.24.2	Extra for plastering done on mouldin g cornices or architraves including neat finish to line and level: 13.24.2 In two coat	152	SQM	215.00	29,412.00
9.9	MP UADD SOR 13.17	6 mm cement plaster 1:3 (1cement:3finesand) finished with a floating coat of neat cement and thick coat of Lime wash on topofwalls when dry for bearing of R.C.C. slabs and beams.	330	SQM	112.00	33,264.00
9.10	MP UADD SOR 13.26.1	Providing and applying 1.5mm thick (intwocoat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.	840	SQM	82.00	61,992.00
9.11	MP UADD SOR 13.40	Distempering with dry distemper of approved brandand manufacture (two or more coats) and of required shade on new work, over and including priming coat of whiting to give an even shade.	840	SQM	33.00	24,948.00
10.0		OTHER WORKS				

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
10.4	Non Schd.64	Making of cuplas/ kiosks over parapet of size 400x 400x500 mm In brick work with proper carving and decoration including lime plaster and stuco work finished with kara at desired location of parapet .stainless steel rod of 10 mm dia and upto 750 mm length shall be used as an anchor in the construction. Item includes cost of shuttering / formwork/ scaffolding / safety measure / use of specified equipment for workers of building required to complete the work	18	EACH	5000.00	90,000.00
10.7	Non Schd.65	Providing and fixing of brass finial over kiosk/cuplas/dome as per approved design ,size of 50 mm dia 300mm long, with all fixing acessories , Item to include all necessary hardware, scaffolding etc. complete	18	NO.S	5000.00	65,700.00
10.8	JOB WORK	Providing and fixing wooden stair case from first floor to mezanine including hand rail ,balustrade and all fixing arrengment including wooden polishing as per approved design and shade directed by engineer incharge .all complete .	2	JOB Work	30000.00	60,000.00
10.9	DSR 10.28	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 withnecessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & 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-incharge,(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).	260	KG	472.40	1,10,541.60
		Grand Total				60,49,403.25

	NOTES:					
	1	All Item of works are considered inclusive of all leads and lift for a	all height	and distan	ces .	
	2	All Item of works are considered inclusive of scaffolding /shutteri required / instructed by Site Engineer /Consultants .	ng /supp	ort structu	are/electricity ar	nd water etc as
Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
		LANDSCAPE				
12.1	Non Schd.70	PATHWAY WITH TOE WALL -Providing and laying of the modular brick tile on edge flooring on 20mm thick lime concrete leveling course laid over the sub- base of 50mm thick bed of local sand evenly spread and rammed with joints finished and flushed with bricks of class designation 150, on a bed of 12 mm lime surkhi mortar (1:2), including filling the joints with same mortar over the sub-base 150 mm thick of brick ballast (40 mm nominal size), filled with lime mortar 1:2 of equal quantity levelled and compacted Item also inclusive of toe wall in stone masonry of 460x250and 300 x230 mm height with pcc sub base of 1:4:8 100 mm thick both side of pathway as per the instruction of site engineer/architect. (plan area including toe wall top will be measured for payments)	358	SQM	1800.00	630080
12.2	MP UADD SOR 6.1.1.	Brick work with well burnt chimney bricks in bulls patent trench kiln manifactured by ghol process ,crushing strength not less than 40 kg /sq cm and water absorption not more than 15% in foundation and plinth Cement mortar 1:4 (1 cement : 4 coarse sand) (brick massonry for drain ,sitting & tree guard) 6.1.1 Brick work in superstructure for all heights	12	CUM	4439.00	47,941.20
12.3	MP UADD SOR 4.1.6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to any level: Cement concrete grade M-7.5(Nominal Mix)with 40 mm maximum size of stone aggregate (FOR LANDSCAPE AND DRIVE WAY PCC WORK)	78	Cu M	3212	2,25,482.40
12.4	DSR 2016 4.3.2	Centering and shuttering including strutting, propping etc. and Removal of form work for: 4.3.2: Retaining walls, return walls, walls (any thickness) includingattached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc	216	SQM	378.6	73,599.84

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
12.5	Non Schd.71	DRIVEWAY - Providing and laying 125 to 150 mm thick M-25 RMC concrete for stamp concreting work to walkways in position ready mixed concrete as per mix design of specified grade for cement concrete work including work including pumping of concrete to site of laying, finishing laid over p.c.c sub base.including cost of color hardener to the concrete(as approved colour), admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength, durability. Item also inlude cost of stamping/texture/imprint and cutting Contraction joints as required or as per direction of the Engineer - in - charge. M-25 grade cement concrete (Stamped concrete, often called textured or imprinted concrete, is concrete that replicates stones such as slate and flagstone, tile, brick and wood.)		CUM	6600	561000
12.6	DSR 2016 4.5.1	KERBSTONE SIDE OF DRIWAY -Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand) including the cost of required centering, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete. 4.5.1 Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate	12	CUM	6772.45	73,142.46
12.7	DSR 10.16.1	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. 10.16.1: Hot finished welded type tubes	1200	KG	90.25	97,470.00
13.1	LAND. DSR 2016 2.1	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly leveling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	120	CUM	45.85	4,951.80
13.2	LAND. DSR 2016 2.2	Supplying and stacking of good earth at site including royalty and carriage up to 5 km (earth measured in stacks will be reduced by 20% for payment).	180	CUM	332.55	53,873.10

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
13.3	LAND. DSR2016 2.3	Supplying and stacking sludge at site including royalty and carriage up to 5 km (sludge measured in stacks will be reduced by 8% for payment).	120	CUM	235.55	25,439.40
13.4	LAND. DSR2016 2.4.3	Supplying and stacking at site dump manure from approved source, including carriage up to 5 km (manure measured in stacks will be reduced by 8% for payment) 2.4.3 Screened through sieve of I.S. designation 4.75 mm	72	CUM	209.15	13,552.92
13.5	LAND. DSR2016 2.5	Rough dressing the trenched ground including breaking clods.	2400	SQM	0.9	1,944.00
13.6	LAND. DSR2016 2.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	2400	SQM	2.9	6,264.00
13.7	LAND. DSR2016 2.7	Fine dressing of the ground	2400	SQM	2.15	4,644 .00
13.8	LAND. DSR2016 2.8	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Officer-in-charge (Cost of sludge, dump manure and / or good earth to be paid separately).	372	CUM	30.95	10,362.06
13.9	LAND. DSR2016 2.9	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge.	372	CUM	21.35	7,147.98
13.10	LAND. DSR2016 2.10.1	Grassing with selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately). 2.10.1 In rows 5 cm apart in both directions	2400	SQM	10.40	22,464.00
11		RAIN WATER HARWESTING				0.00
14.1	MP UADD SOR 22.7.1	Providing and laying filter material as given below in recharge pit/percolation pit or soak pit/ waste water treatment system. 22.7.1 Sand (1.5 mm to 2.00 mm)	10	Cu M	1,365.00	12,285.00
14.2	MP UADD SOR 22.7.2	Providing and laying filter material as given below in recharge pit/percolation pit or soak pit/ waste water treatment system. 22.7.2 Gravel/Pebbles (5 to 25 mm)	10	Cu M	1,138.00	10,242.00
14.3	MP UADD SOR 22.8	Brick bats	10	Cu M	955.00	8,595.00
14.4	NON SOR DSR 24.3.2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge. 24.3.2: 150 mm nominal size dia.	80	MTR	587.05	42,267.60

Item	Ref.	Description	Qty	Unit	Rate	AMOUNT
14.5	NON SOR DSR 23.13.2	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell 23.13.2 150 mm dia	2	each	182.95	329.31
14.6	NON SOR DSR 23.1.1.2	Boring/drilling bore well of required dia for 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 & running charges of allequipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, 23.1.1 All types of soil.	80	MTR	405.45	29,192.40
		Grand Total		19,62,270.47		

EST	ГІМАТЕ	FOR ELECTRICAL & PLUMBING WORKS GANDHI B BLOCK	SHAW A	AN LIBRA	ARY & AD	DITIONAL
S.N O	REF NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
		Electrical Work				
		SUB-HEAD I: INTERNAL WIRING				
		All wiring Item FRLS including provision of conduit, conduit accsories, circuit wiring, switch, box and all fitting completed as required.				
1	(1.10.3)	Wiring for light point / fan point /exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC Conduit, with modular switch,modular plate ,suitable GI Box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
		a) Group C	200	Point	646.20	1,29,240.00
2	-1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper condutor single core cable in surface / recessed PVC conduit 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm .FRLS PVC insulated copper conductor single	40	Point		
		core cable etc as required.			693.00	27,720.00
3	-1.12	Wiring for light /power plug with 2x4 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed PVC conduit along with 1 No 4 sq.mm FRLS PVC insulated copper conductor single	2000	Meter		
4	1 12	core cable for loop earthing as required.	(00	3.5	145.80	2,91,600.00
4	-1.13	Wiring for light /power plug with 4x4 sq.mm FRLS PVC insulated copper conductor single core cable in surface /recessed PVC conduit along with 2 No 4 sq.mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	600	Meter	247.50	1,48,500.00
5		Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor single core cable			211.00	1,10,000.00
		in surface/recessed PVC Conduit as required.			0.00	0.00
(i)	(1.14.1)	2x1.5 sq.mm + 1x1.5 sq.mm earth wire	600	Meter	95.40	57,240.00
(ii)	(1.14.2)	2x2.5 sq.mm + 1 x 2.5 sq.mm earth wire	2500	Meter	117.90	2,94,750.00
(iii)	(1.14.3)	2 x 4 sq.mm + 1 x 4 sq.mm earth wire	500	Meter	145.80	72,900.00
(iv)	(1.14.4)	2x6 sq.mm + 1x6 sq.mm earth wire	500	Meter	198.90	99,450.00
(v)	(1.14.8)	4x4 sq.mm + 2x4 sq.mm earth wire.	200	Meter	247.50	49,500.00
(vi)	(1.14.10)	4x10 sq.mm + 2x10 sq.mm earth wire.	150	Meter	537.30	80,595.00
(vii)	(1.14.11)	4x16 sq.mm + 2x16 sq.mm earth wire	150	Meter	794.70	1,19,205.00
5	(1.31)	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch ,connection	40	Each		
6	(1.32)	etc as required. Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 15/16 and 5/6 amps modular socket outlet with shulter and 15/16	40	Each	248.40	9,936.00
		amps modular switch connection, etc as required.			272.70	10,908.00
7	(1.38)	Supplying and fixing call bell/ buzzer suitable for single phase ,230 volts ,complete as required.	3	Each	54.90	164.70

8		Supplying and fixing of following sizes of medium class PVC conduit				
		along with acessories in surface/recess including cutting the wall and				
		making good the same in case of recessed conduit as required.			0.00	0.00
(i)	(1.21.2)	25 mm	1200	Meter	58.50	70,200.00
(ii)	(1.21.3)	32 mm	200	Meter	76.50	15,300.00
		S/F Wooden conduit ·				.,
	ET E 1 10	Supplying and fixing of following sizes of wooden conduit				
9	ELE NS	along with accessories in surface/recess including, fixing cap with nails,				
	1	clips, cutting the wall wherever necessary and making good the same in				
		case of recessed conduit as required.			0.00	0.00
		50 MM WIDE	200	MTR	49.50	9,900.00
		Vintage style electrical toggle Bakelite switch in round shape on				- ,
10	NS	ceramic/PVC based.(black colour base) as per direction of architect				
		.SSK or Equivalent brand			0.00	0.00
	ELE NS	F /C	20	NI		
	31	5/6 amps switch	20	No.s	585.00	11,700.00
	ELE NS	6 pin 15/16 amp socket outlet	10	No.s		
	32	o piii 13/ 10 amp socket outlet	10	110.3	675.00	6,750.00
11	(2.18)	Supplying and fixing 20 amps, 240 volts SPN industrial type, socket	20	Each		
		outlet with 2 pole and earth metal enclosed plug top along with 20 amps				
		'C' Curve, SP, MCB in sheet steel encloser on surface or in recess with				
		chained metal cover for the socket outlet and complete with				
		connecctions, testing & commissioning etc as required.			781.20	15,624.00
12	(NS)	Supplying and fixing of 1no 16 Amp moulded switch and 2 nos 6amp				
		moulded socket in protection with box and including with 3x2.5sqmm.				
		(P+N+E) FRIS. PVC insulated copper conductor wire in surface /				
		recessed in IS embossed black enameled 2mm thick PVC conduit and				
		earthing the 3rd pin complete as per specification and as required. (2 set				
		per circuit shall be wired) - COMPUTER POINTS	20	Each	1800.00	36,000.00
13	(NS)	Supplying & fixing 75mm x 75mm x 10 mm zinc passivated box with				
		mould cord outlet complete with RJ 45 sockets as required for				
		computer data point.	20	Each	405.00	8,100.00
14	(NS)	Supplying & laying CAT 6 for LAN wiring in PVC conduit / Cable Tray				
		complete as required.	600	Each	63.00	37,800.00
15	(NS)	Supply Installation, testing and commissioning of LED tubelight 5				
		Watt unit with all fitting arrangment and necessary connection all	20	EACH		
		complete .as per direction of engineer incharge .Make-Phillips/havells				
		/Bajaj/Crompton/Wipro			552.60	11,052.00
4	(2.0)	SUB-HEAD II:- DISTRIBUTION BOARDS			0.00	0.00
1	(2.8)	Supplying and fixing following way prewired TP & N, MCB distribution				
		board of sheet steel for 415 volts on surface /recess complete with				
		loose wire box, terminal connectors for all incoming and outgoing				
		circuits, duly prewired with suitable size FRLS PVC insulated copper				
		condutor up to terminal blocks, tinned copper bus bar, neutral link,				
		earth bar, din bar, detachable gland plate, interconnections, powder				
		painted including earthing etc. as required. (But without				
		MCB/RCCB/Isoltor).	_	<u> </u>	0.00	0.00
	(2.8.6)	6 way (4+18) Double door	3	Each	8546.40	25,639.20
	(2.8.7)	8 way (4+24) Double door	12	Each	9360.00	1,12,320.00

2	(2.7)	Supplying and fixing following way, single pole and neutral, prewired,				
_	(2.7)	sheet steel, MCB distribution board, 240 volts, on surface /recess,				
		complete with loose wire box, terminal blocks, duly prewired with				
		suitable size FRLS PVC insulated copper condutor upto terminal				
		blocks, tinned copper bus bar, neutral link, earth bus, din bar,				
		detachable gland plate, interconnections, powder painted including				
		earthing etc as required. (But without MCB/RCCB/Isolator)			0.00	0.00
	(2.7.4)	4 way (2+4) Double door	3	Each	2257.20	6,771.60
3	2.9	Supplying and fixing following way prewired vertical type 415 volts	3	Lacii	2231.20	0,771.00
3	2.7	TP&N MCB distribution board surface/recssed of sheet steel dust				
		protected duly powder painted inclusive of 200amps tinned copper bsu				
		bar common neutral link earth bar din bar for mounting MCB's terminal				
		connectors for all incoming and outgoing circuits duly prewired with				
		FRLS PVC insulated copper conductor upto the trminal connector/				
		neutral link earthing etc. as required (But without MCB/MCCB) (Note:				
		VTPN DB is normally used where 3 phase outlets are required).				
		virivibb is normally used where 5 phase outlets are requiredy.			0.00	0.00
	2.9.5	4 way double door	4	Each	7110.90	28,443.60
4	2.7.5	Supply and fixing 5 amps to 32 amps rating.240/415 volts.'C' curve	'	Lacii	7 1 10.00	20,110.00
		miniature circuit breaker suitable for inductive load of following poles in				
		the existing MCB DB complete with connections, testing and				
		commissioning etc.as required			0.00	0.00
	(2.10.1)	a) Single pole	60	Each	144.00	8,640.00
	. ,	b) Triple pole	20	Each	585.00	11,700.00
5	2.12	Supply and fixing following rating,double pole,240 volts,MCB in the	20	Lacii	000.00	11,700.00
		existing MCB DB complete with connection ,testing and commissioning				
		etc. as required.			0.00	0.00
	(2.12.1)	a) 40 amps	4	Each	196.20	784.80
6	()	Supply and fixing following rating, four pole, 415 volts, MCB in the				
		existing MCB DB complete with connection ,testing and commissioning				
		etc. as required.			0.00	0.00
	(2.13.2)	a) 63 amps	20	Each	603.00	12,060.00
		b) 100 amps	5	Each	765.90	3,829.50
7	,	Supply and fixing following rating,double pole (single phase and				
		neutral),240 volts,RCCB having a sensitivity current upto 300 amp in				
		the existing MCB DB complete with connection ,testing and				
		commissioning etc. as required.			0.00	0.00
	(2.14.1)	a) 25 amps	10	Each	1480.50	14,805.00
	(2.14.2)	a) 40 amps	50	Each	1530.00	76,500.00
		SUB-HEAD III :- WIRING FOR TELEPHONE			0.00	0.00
					0.00	0.00
1		Supplying and fixing of following size/modules, GI box along with				
		modular base & cover plate for modular switches in recess etc as				
		required.			0.00	0.00
	(1.27.1)	a) 75 mm x 75 mm x 60 mm deep	20	Each	153.00	3,060.00
2		Supplying and drawing following pair, 0.5.mm dia FR PVC insulated				
		annealed copper conductor, unarmoured telephone cable in the existing				
		surface/ recessed steel/ PVC conduit as required.			0.00	0.00
a)	(1.18.2)	2 Pair	1200	Meter	18.00	21,600.00

3	(1.19)	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid	100	Meter		
		and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.			22.50	2,250.00
4		Supplying and fixing following modular switch/ socket on the existing			22.00	2,230.00
		modular plate and switch box including connections but excluding plate				
		etc .as required.			0.00	0.00
	(1.24.6)	a) Telephone socket outlet	10	Each	81.00	810.00
	(1.24.7)	a) TV socket outlet	6	Each	81.00	486.00
5		Supplying and fixing of the following sheet steel clad wall / recess				
		mounting telephone tag blocks of krone make constructed from 14				
		SWG sheet steel finished with red oxide coating of two coats of paint				
		with hinged gasketted powder coated door and complete.			0.00	0.00
	(NS)	a) 10 pairs	2	Each	1350.00	2,700.00
	(NS)	b) 50 pairs	4	Each	3150.00	12,600.00
					0.00	0.00
12.0		TOILET & PLUMBING			0.00	0.00
12.1	NON	Providing laying fixing and testing Gl pipe line and special tee bends				
	SOR	sockets, elbows etc as per design. inside building and tested etc.				
		complete including cutting and threading (b) including cost of special	30	MTR		
		tee bands socket etc ,all complete	30	WITK		
					144.00	4,320.00
12.2	MP	Providing and fixing white vitreous china pedestal type water closet				
	UADD	(European type) with seat and lid, 10 litre low level white vitreous china				
	SOR	flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40mm				
	25.3.1	flush bend, overflow arrangement with specials of standard make and	7	each		
		mosquito proof coupling of approved municipal design complete				
		including painting of fittings and brackets, cutting and making good the				
		walls and floors wherever required:			3440.70	24,084.90
12.3	MP	Providing and fixing C.P. brass bib cock of approved quality				
	UADD	conforming to IS:8931.15 mm nominal bore.	18	each		
	SOR		- 0			
	23.29.1				324.00	5,832.00
12.4	MP	Providing and fixing C.P. brass stop cock (concealed) of standard design				
	UADD SOR	and of approved make conforming to IS:8931. 15 mm nominal bore.	14	each		
	23.32.1				324.00	4 526 00
12.5	NON	providing and fixing in position best indian made bevelled edged 5.5			324.00	4,536.00
12.3	SOR	mm thick mirror mounted on asbestos sheet ground fixed in position by				
		means of 4 nos chromium plated brass screw over rubber washer and				
		rawl plugs embeddded in the wall or chromium plated brass screws	4	each		
		complete including cutting and making good the walls etc. indian				
		makeas per design			3150.00	12 600 00
12.6	MP	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass			3150.00	12,600.00
12.0	UADD	pillar taps,32 mm C.P. brass waste of standard pattern, including				
	SOR	painting of fittings and brackets, cutting and making good the walls	7	each		
	25.7.1	wherever require: White Vitreous China Wash basin size 630x450 mm	/	each		
		with a pair of 15 mm C.P. brass pillar taps.			1407.60	0 050 00
		with a pair of 15 tilli 0.1. Diass pillar taps.			1407.00	9,853.20

12.7	NON	Providing and fixing 32mm dia Gl water waste pipe embedded into wall				
	SOR	upto All level and heights	120	MTR		
	DSR18.10		120	1,111		
12.0	.4				162.00	19,440.00
12.8	NON	providiing and fixing in position best indian made flexible tube	14	each		
12.0	SOR	connection C.P Brass 15mm x 375 mm			171.00	2,394.00
12.9	NON SOR	Providing and fixing in position HCI floor trap conforming to ISI				
	SOK	specification of reputed firm of the self cleaning design design with with				
		CP brass hinged grating with frame with or without arm and including	0			
		cement concrete 1:2:4 under and around the floor trap where required	9	each		
		up to floor level complete in all respects including cutting and making				
		the good walls and floor etc. minimum depth of water should be			4000.00	0.000.00
12.10	NON	150mm with minimum seal 50mm b) 75mm internal diameter outlet.			1033.20	9,298.80
12.10	SOR	Providing and fixing in position superior quality 65mm 1/d opening C.P brass dome type hinged grating weighing 750 grams fixed in cement				
	DSR	sand mortar 1:2 complete in all respects (as required by the Engineer -in-				
	17.60	charge)			0.00	0.00
-		i) 100mm i/d (1.36kg)Sand cast iron S&S as per IS: 3989	20	NOS	0.00 884.30	0.00 17,685.90
	17.60.2.1	ii) 75mm i/d (1.3kg.)Sand cast iron S&S as per IS - 3989	20	NOS	918.00	18,360.00
12.11	MP	Providing and fixing white vitreous china flat back or wall corner type	20	1103	910.00	10,300.00
12.11	UADD	lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes				
	SOR	respectively with automatic flushing cistern with standard flush pipe and				
	25.4.3	C.P. brass spreaders with brass unions and G.I clamps complete,	6	Nos		
		including painting of fittings and brackets, cutting and making good the	O	1100		
		walls and floors wherever required : Range of three urinal basins with 10				
		litre white P.V.C. automatic flushing cistern.			3956.40	23,738.40
12.12	NON	Painting HCI soil waste, vent pipes and fittings with black bitumastic			0000.10	20,7 00.10
	SOR Non	paint of approved manufacture, ISI marked with 2 Coat on new work				
	Schd.	with ISI marked paint.				
		•			0.00	0.00
		b) 100mm internal diameter	150	MTR	85.50	12,825.00
		c) 75mm internal diameter	150	MTR	72.00	10,800.00
12.13	NON	Providing and fixing in position H.C.L. soil waste vent or antisyphonage				
	SOR	pipes to I.S.I. specification of E.D.C. manufacture or of any other				
		reputed firm including cutting a,nd wastage etc. and cutting holes in				
		walls roofs			0.00	0.00
12.1		b) HCL 100mm intarnal diameter	150	MTR	580.50	87,075.00
		c) HCI 75mm internal diameter	150	MTR	490.50	73,575.00
12.15	NON	Providing and fixing in position gully trap fixed in concrete 1:4:8				
	SOR	complete with HCI grating 150mmx150mm cast iron weighing aprox				
	DSR	7.26 kg and frame clear opening 300mmx300mm and outside size				
	19.4.1.1	330mmx330mm and chamber including cost of all brick work in cement	7	each		
		mortar 1:5 cement concrete 1:2:4 in coping around Cl cover and frame				
		etc. with 3 coats of black bitumastic superior paint of approved				
		manufacturer an all C.l. work as per standard design minimum seal				_
		50mm (B) 100mm i/d H.C.I gully trap.			1414.35	9,900.45

10.16	NON					1
12.16	NON	Excavation for pipe line trenches and pits, in open areas where disposal				
	SOR	of surplus earth is done along the allignment, including trimming and				
		dressing sides, levelling of beds of trenches to correct grade, cutting				
		loint holes, refilling, consolidation and dewatering of refille in 15 em				
		layers and resoration of unmateled or paved surface to its orignal				
		condition. The rate includes the cost of the accessories timbering,				
		dewatering of rain water diversion for trafic, night signal, fixing causion	6	cum		
		boards, watching fencing etc. (i) from 6.00 mts depth down to 7.5 m				
		depth in case of all classes of soil except rocky.P/L and jointing glazed				
		1 ,				
		stone wire pipes clamp spl with stiff mixture of cement mortar in the				
		proportion of 1:1 (1 cement 1 sand) including testing of band etc.				
		complete			140.04	840.24
12.17	NON	P/L cement concret 1:5:10 (1 cement 5 sand 10 coarse graded) all				
	SOR	round S.W. pipes including bed concrete as per standard desigen			0.00	0.00
		100mm S.W. pipes	12	MTR	382.50	4,590.00
		150mm S.W. pipes	12	MTR	117.00	1,404.00
12.18	NON	Constructing brik masnory manhole in cement				, , , , , , , ,
	SOR	mortar 1:4 (1cement 2 coarse) R.C.C top[slab with1:2:4 mix (
		1cement 2 coarse sand 4 graded stone aggregate 20mm nominal size				
		0 00 0				
),foundation concrete 1:4:6 mix (1 cement :4 coarce sand 8 graded				
		stone aggregate 40mm norminal size) inside plastering 12mm thick with				
		cement mortar 1: 3 (1 cement and making channeles in cement				
		concrete 1:2:4 (1 cement 2 coarse sand 4 graded stone aggregate 20mm	4	nos		
		nominal size) finised with a floating coat of neat cement complete as				
		per standard design. Inside size 90x80 em and 45cm deep including C.l				
		cover with frame (light duty) 455x61Omm internal dimensions total				
		weight of cover and frame to be not less than 38 kg(weight of cover				
		23kg and weight of frame 15kg) with F.P.S.brick with class designation				
		175			6300.00	25,200.00
12.19	MP	Providing and fixing toilet paper holder: C.P. brass			0000.00	20,200.00
	UADD	To running untur running contect purpor resident is one visitation				
	SOR		4	each		
	25.34.1				163.80	655.20
12.20	MP	Providibg and fixing PTMT Waste Coupling for wash basin and sink, of			100.00	000.20
	UADD	approved quality and colour. Waste coupling 38mm of 83mm length				
	SOR		7	each		
	25.69 .2	and 77mm breadth, weighing not less than 60gms.			75.60	529.20
12.21	MP	Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle			7 0.00	020.20
	UADD	trap 38mm single piece moulded with height of 270mm, effective length				
	SOR					
	25.70.2	of tail pipe 260mm from the centre of the waste coupling 77mm	7	each		
	23.70.2	breadth with 25mm minimum water seal, weighing not less than				
		263gms.				
					391.50	2,740.50
		Providing and fixing stone slab with table rubbed, edges rounded and				
		polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal				
	MP	partitions by cutting a chase of appropriate width with chase cutter and				
10.00	UADD	embedding the stone in the chase with epoxy grout or with cement	2	COM		
12.22	SOR	concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6	2	SQM		
	8.10.2	mm nominal size)				
		as per direction of Engineer-in-charge and finished smooth.Granite				
		Stone of approved shade. Granite Stone of approved shade.			2541.60	5,083.20
		or approved strate. Statistic of the of approved strate.			2041.00	5,005.20

				1	1	
12.23	MP UADD SOR 18.48	Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	2000	LTR	6.30	12,600.00
12.24	NON SOR	Providing and fixing drinking water cooler including all fitings complete with metal jaali cover with frame	1	EACH	27000.00	27,000.00
11.0		pipes and chamber			0.00	0.00
11.1	MP UADD SOR 24.10.1	Constructing brick masonry road gully chamber 50x45x60 cm with bricks of class designation 40 in cement mortar 1:4 (1 cement : 4 sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame (minimum weight of grating 75 kg) complete as per standard design : With Modular bricks	4	ЕАСН	2022 20	44 700 00
11.2	DSR 18.27.6	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536:100 mm dia pipe including flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS: 1538:Up to 300 mm dia	10	MTR	2932.20 4346.42	11,728.80 43,464.15
11.3	MP UADD SOR 23.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.			0.00	0.00
11.3.1	23.9.10	150 mm nominal outer dia Pipes	25	MTR	3805.20	95,130.00
11.3.2	23.9.9	100 mm nominal outer dia Pipes	25	MTR	2191.50	54,787.50
		DRAIN CONECT TO SEWER			0.00	0.00
11.4	MP UADD SOR 24.3.2	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 150 mm dia. R.C.C. pipe	80	MTR	241.20	19,296.00
		GRAND TOTAL				26,10,501.84

E	STIMATE FOR ELECTRICAL & PLUMBING WORKS GANDHI	BHAWAN L	IBRARY &	ADDITIONA	L BLOCK
	Sub Head:-Providing and installation of air conditioning system	with VRF sys	stem		
S.No.	Description of Items.	Unit	Qty.	RATE	AMOUNT
	C 1 CW 111 C				
1	Supply of Variable refrigerant flow(VRF) modular type air-conditioning system suitable to operate from 410+10% volt, 50 Hz,3 phase AC power				
	supply for cooling & heating by using 100% inverter driven capacity				
	control compressors (Hermetically sealed 3-D scroll type-All compressors				
	are Inverter Based) complete with individual controller and fittings with				
	necessary wiring, connection & termination, painted MS frame for				
	outdoor unit etc. as per quantity given below including full charging of R-				
	410A refrigerant gas complete as per specifications.				
A)	Outdoor Units				
a	22HP	No	2	612000	12,24,000.00
b	18HP	No	1	504000	5,04,000.00
с	14HP	No	1	360000	3,60,000.00
d	12HP	No	1	288000	2,88,000.00
B)	Indoor units (Nominal capacity)				
	Supply of Floor Standing type air-conditioning system of following				
	capacity suitable to operate from 230+10% volt, 50 Hz,1 phase power				
	supply with fittings etc.				
a					
	2.0 TR	Nos	12	93600	11,23,200.00
	Supply of Wall Mounted(Split) type air-conditioning system of following				
	capacity suitable to operate from 230+10% volt, 50 Hz,1 phase power				
	supply with fittings etc. 2.0 TR	Nos	24	36000	8,64,000.00
a B	2.0 TR 3.0 TR	Nos Nos	24 4	57600	2,30,400.00
ע	Refrigerant 'Y'Joint Required for distribution of refrigerant in copper			37000	2,00,700.00
C)	piping etc complete as per specifications	Lot	1	115200	1,15,200.00
-,	Wireless Remote Control			1 10200	, ,
		Nos	40		
D)				2160	86,400.00

1.	Inverter based VRF System				
	Installation, Testing & Commissioning of Variable refrigerant flow(VRF)				
	modular type air-conditioning system suitable to operate from 410+10%				
	volt, 50 Hz,3 phase AC power supply for cooling & heating by using				
	100% inverter driven capacity control compressors (Hermetically sealed 3-				
	D scroll type-All compressors are Inverter Based) complete with				
	individual controller and fittings with necessary wiring, connection &				
	termination, painted MS frame for outdoor unit etc. as per quantity given				
	below including full charging of R-410A refrigerant gas complete as per				
	specifications.				
A)	Outdoor Units				
a	22HP	No	2	28000	56,000.00
b	18HP	No	1	22000	22,000.00
с	14HP	No	1	12000	12,000.00
d	12HP	No	1	8000	8,000.00
				0	0.00
B)	Indoor units (Nominal capacity)			0	0.00
	1 7/			0	0.00
	Installation, Testing & Commissioning of Floor Standing type air-			,	
	conditioning system of following capacity suitable to operate from				
	230+10% volt, 50 Hz,1 phase power supply with fittings etc.			0	0.00
a	2.0 TR	Nos	12	3000	36,000.00
				0	0.00
	Installation, Testing & Commissioning of Wall Mounted(Split) type air-				
	conditioning system of following capacity suitable to operate from				
	230+10% volt, 50 Hz,1 phase power supply with fittings etc.			0	0.00
a	2.0 TR	Nos	24	2700	64,800.00
b	3.0 TR	Nos	4	3600	14,400.00
	I/T/C of Refrigerant 'Y'Joint Required for distribution of refrigerant in				•
C)	copper piping stc complete as per specifications	Lot	1	60000	60,000.00
2	Refrigerant Piping (VRV/VRF Units)				
	Supply & Installation of interconnecting following sizes of one end				
	expanded refrigerant copper pipe work of following outer diameter,				
	insulated with 19 mm thick 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. The pipe dia upto 19mm shall be soft seamless & not be less				
	than 22SWG of copper & above 19mm dia shall be hard seamless & shall				
	not be less than 16SWG of copper. 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.				
2.1	34.9 mm dia	Rm	90	972	87,480.00
2.2	28.8 mm dia	Rm	90	900	81,000.00
2.2	19.1 mm dia	Rm	70	792	55,440.00
2.3	15.9 mm dia	Rm	150	705.6	1,05,840.00
2.4	12.7 mm dia	Rm	100	662.4	66,240.00
2.5	9.5 mm dia	Rm	150	568.8	85,320.00
2.6	6.4 mm dia	Rm	100	468	46,800.00
	0.4 mm dia				
	O.T HIIII GIA			0	0.00
3	Covered cable tray with GI Sheet cover for exposed piping	Rm	80	0 540	0.00 43,200.00

	Providing & fixing of rigid UPVC Pipe of 6kg/sqcm working pressure				
	complete with fittings, supports as per specifications and duly insulated				
	with 6mm thickness of closed cell nitrile rubber of 32kg/cum density as				
	per direction of Engineer-in-charge & specifications enclosed as reqd. The				
	termination to the drain point should be included in the rates.			0	0.00
4.1	32 mm dia	Rm	120	100.8	12,096.00
4.2	25 mm dia	Rm	60	93.6	5,616.00
5	Providing & fixing of control wiring/power cabling with following sizes				
	of copper conductor armoured cable between indoor and outdoor units				
	directly on surface of wall/ existing channeli/c making connection etc. as				
	reqd.			0	0.00
	2 x 1.5 sq.mm FRLS / Sheilded wire	Rm	800	108	86,400.00
6	Lifting, Shifting, positing, ODUs & IDUs as perapproved drawings &				
	RCC structure for all ODU units in Terrace area	Lot	1	36000	36,000.00
	Total				57,79,832.00