

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
1.0	SITE DEVELOPMENT				
1.1	Site clearance including removal of shrubs, trees and vegetation upto the bottom of the root including clearing them away from the site, levelling the undulated ground, etc., complete, as directed.	Sqm	16188	3.50	56,658.00
2.0	EARTHWORK EXCAVATION FOR FOOTINGS & RR				
2.1	Earth work excavation for BUILDING foundations and depositing on bank for all lifts and with an initial lead of 10m including all operational, incidental, labour charges such as shoring ,sheeting, planking, strutting, etc. and overheads and contractor profit complete for finished item of work excluding dewatering charges as per SS 20B (APSS 308) in Ordinary Soil-Mannual Means.	Cum	5583.00	289.00	1,613,487.00
2.2	Earthwork excavation in soils upto SDR by mechanical means for foundations of structures as per drawing and technical specification including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing sides of bottom, back filling the excavation earth to the extent required etc., complete including seigniorage charges for finished item of work as per MoRT&H specification 304(5th revision) and as directed by the Engineer-in-Charge	Cum	3124.00	98.00	306,152.00
3.1	Filling with useful available excavated earth (excluding rock) with a lead of 50 m in trenches, sides of foundations and basement with initial lead in layers not exceeding 15cm thick, watering and ramming including cost and conveyance of water to work site and all operaitonal, incidental, labour charges, hire charges of T&P etc., and overheads & contractors profit complete for finished item of work	Cum	1477.00	33.00	48,741.00
3.2	Filling with murrum in trenches,sides of foundations and basement with initial lead in layers not exceeding 15cm thick,watering and ramming including cost and conveyance of water to work site and all peraitonal,incidental,loabour charges,hire charges of T&P etc., and overheads & contractors profitcomplete for finished item of work(APSS NO.309&310)	Cum	140.40	331.00	46,472.40

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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
4	Providing hearting embankment using selected impervious soil from approved borrow areas in layers of 25 to 30 cm before compaction including cost of all materials, machinery, labour, all operations such as excavation, sorting out, transportation, spreading soil in layer of specified thickness, breaking clods, sectioning, watering, compacting to density control of not less than 95 percent or as stipulated using Sheep foot roller / Vibratory roller/ 8 to 10 tonne power roller etc., complete with initial lead upto 1 km and all lifts.	Cum	1093.00	153.00	167,229.00
5	Construction of shoulders with borrowed useful earth from outside road boundary by mechanical means up to SDR with all leads and lifts including pre-watering of soil at borrow area, removal of top soil, excavation of soils at borrowed area, conveyance of soil, depositing the soil on the embankment, spreading soil, breaking clods, sectioning, grading and consolidation with 8 to 10 Tonnes Vibratory Road Roller @ OMC to meet requirement of table 300-2 of MoRT&H, including all hire and operational charges of T&P and seigniorage charges, complete for finished item of work as per MoRT&H specification 305 (4th revision) (Payment will be made based on levels for finished item of work).	Cum	412.00	114.00	46,968.00
6	Random Rubble stone masonry in LM (1:4) prop: (Lime : Sand) using hard granite stones carted from approved quarry including cost and conveyance of all materials like Lime, sand, water, stones etc., from approved quarry, to site and including seigniorage charges, sales & other taxes on all materials including labour for cutting stones to required size and shape, mixing, of Lime, mortar, construction, curing etc.,and overheads & contractors profit complete for finished item of work in foundation and basement. (APSS No. 601 & 615)	Cum	685.00	6,091.00	4,172,335.00
7	Coursed Rubble Masonry in LM (1:4) prop: (Lime : Sand) using hard granite stones carted from approved quarry including cost and conveyance of all materials like Lime, sand, water, stones etc., from approved quarry, to site and including seigniorage charges, sales & other taxes on all materials including labour for cutting stones to required size and shape, mixing, of Lime, mortar, construction, curing etc.,and overheads & contractors profit complete for finished item of work in foundation and basement. (APSS No. 601 & 615)	Cum	641.00	6,351.00	4,070,991.00

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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
8	Supplying and placing plain cement concrete as specified machine mixed and mechanically vibrated and at all depths below plinth level including curing but excluding shuttering, all materials and labour complete				
8.1	Plain Cement Concrete (1:5:10) (cement: fine aggregate: Coarse aggregate) under foundations and under flooring bed using coarse aggregate 40mm size hard , machine crushed Granite metal from approved quarry including cost and conveyance of all materials like cement, sand, coarse aggregate, water etc. to site, all charges for mixing, laying concrete in foundations , ramming, finishing top surface to the required level, curing including cost of overheads & contractors profit etc., complete for finished item of work. (APSS No. 402) MACHINE MIXING	Cum	510.50	4,051.00	2,068,035.50
8.2	Plain Cement Concrete (1:4:8) (cement: fine aggregate: Coarse aggregate) under foundations and under flooring bed using coarse aggregate 40mm size hard , machine crushed granite from approved quarry including cost and conveyance of all materials like cement, sand, coarse aggregate, water etc. to site, all charges for machine mixing, laying concrete in foundations and under flooring bed, finishing top surface to the required level curing etc., and overheads & contractors profit complete for finished item of work. (APSS No. 402) MACHINE MIXING	Cum	152.00	4,224.00	642,048.00
8.3	Providing Vibrated Cement Concrete (1:4:8) mix using 40mm size HBG crushed stone aggregate and fine aggregate conforming to table 1000-2 of MoRT&H including cost, conveyance of all materials to site and labour charges, centering, machine mixing, laying, Vibrating, curing etc., including all other incidental and operational charges of all T&P etc., complete for finished item of work as per MoRT&H specification 1500,1700, 2100 (5th Revision) and as directed by the Engineer-in-Charge for base coarse below CC Pavement.	Cum	282.00	3,584.00	1,010,688.00

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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
8.4	Plain Cement Concrete (1:3:6) nominal mix using 20mm size graded machine crushed hard granite metal (coarse aggregate) (consisting of nominal size metal 60% of 20mm, 15% of 13.20/12.50mm, 15% of 10mm and 10% of 6mm) from approved quarry including cost and conveyance of all materials like cement, fine aggregate(sand), coarse aggregate, water etc. to site, including seigniorage charges, sales & other taxes on all materials and including all charges for mixing, laying concrete in position, curing etc., & lift charges , and overheads & contractors profit for Bed Blocks & Hold Fasts for finished item of work.	Cum	196.30	5,345.00	1,049,223.50
8.5	Damp proof course 50 mm thick with 1:2:4 cement concrete Nominal mix, using 12mm graded hard broken stone aggregate including cost of all materials, conveyance charges of materials and cost of machinery, labour charges, mixing, placing in position, leveling, vibrating, curing etc and overheads & contractors profit, complete for finished item of work. (Using concrete mixer).	Sqm	215.00	274.00	58,910.00
8.6	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Rmt	1200.00	309.00	370,800.00
8.7	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	375.00	467.00	175,125.00

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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
8.8	Supply and placing of the Design Mix Concrete M 25 grade corresponding to IS 456 with minimum cement content of 380 kgs per 1 cum of concrete and required quantity of Chemical Admixtures per 1 cum of concrete using WEIGH BATCHER / MIXER with 20mm size graded machine crushed hard granite metal (coarse aggregate) (consisting of nominal size metal 60% of 20mm , 15% of 13.20/12.50mm , 15% of 10mm and 10% of 6mm) from approved quarry including cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site and including Seigniorage charges, sales & other taxes on all materials , centering using Steel scaffolding pipes , jack props , wallers , Foot plates , brackets , steel centering plates etc., including all operational, incidental and labour charges such as weigh batching, machine mixing, laying concrete, curing etc., and overheads & contractors profit complete but excluding cost of steel and its fabrication charges for finished item of work				
8.8.1	Footing	Cum	152.40	8,863.00	1,350,721.20
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8.8.2	Columns	Cum	63.10	11,134.00	702,555.40
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8.8.3	Plinth Beams	Cum	92.10	11,078.00	1,020,283.80
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8.8.4	Roof Beams	Cum	161.40	10,570.00	1,705,998.00
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8.8.5	Retaining Wall	Cum	680.00	5,062.00	3,442,160.00
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8.8.6	Slab 125mm	Sqm	856.00	1,269.00	1,086,264.00
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8.8.7	Slab 150mm	Sqm	559.50	1,422.00	795,609.00
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8.8.8	Slab 300mm	Sqm	21.00	2,359.00	49,539.00
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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
8.9	Vibrated cement concrete M 25 grade using 20mm & 10mm HBG crushed stone aggregate (Coarse aggregate conforming to table 1000-1 and fine aggregate conforming to table 1000-2) and using fly ash (replacing cement by fly ash to the extent of 15% and sand by 10%) including cost, conveyance of all materials to site and labour charges, centering, machine mixing, laying, vibrating, curing etc., including all other incidental and operational charges of all T&P etc., complete for finished item of work as per MoRT&H specification 1500, 1700, 2100 & 2702 (5th revision) and as directed by the Engineer-in-Charge for C.C Pavement.	Cum	412.00	5,457.00	2,248,284.00
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9	Providing impervious coat to exposed RCC roof slab surfaces to required slopes with CM (1:3) prop. 20mm thick (average) mixed with water proofing compound manufactured by reputed manufacturers as approved by Engineer-in-charge at 1 Kg per one bag of cement, laid over roof slab when it is green, finished smooth with a floating coat of neat cement and thread lining at regular intervals of 45cmx45cm including cost and conveyance of all materials like cement, sand, water proofing compound, water etc., to site, including seigniorage charges, sales & other taxes on all materials and operational, incidental, and labour charges for mixing mortar, laying, lift charges, rendering smooth and thread lining, curing including rounding off junctions of wall and slab etc., and overheads & contractors profit complete for finished item of work.	Sqm	1401.00	410.00	574,410.00
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10	Supplying, fitting and placing thermo Mechanically Treated (TMT) (Fe 500/500D/550D grade as per IS 1786-1979 manufactured by TATA,SAIL,VSP steel, JSW steel, Shyam steel of different diameters for RCC works , including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials and size and tying and lap-splicing with binding wire, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars to site, including all wastages such as overlaps, couplings, chairs, spacer bars				-
	including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying on all materials etc. ,and cost of overheads & contractors profit etc., complete for finished item of work (APSS No.126)	tons	78.25	61,495.00	4,811,983.75
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11	BACK FILLING OF Gravel				-
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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
11.1	Back filling foundations for sides of trenches and basement including all labour charges for filling, spreading in layers of 15cms thick watering, and ramming etc. complete as per standard specification for finished item of work	Cum	3.00	209.00	627.00
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12	BRICK WORK				-
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12.1	Brick masonry 230 mm thick for walls in basement with cement mortar (1:6) prop (Cement:sand) using Bricks First class of size (Non-Modular or traditional size) 23 x 11 x 7 cm from approved source having minimum crushing strength of not less than 3.5 N/sq.mm. including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, all incidental and operational, labour charges like mixing cement mortar, scaffolding charges, constructing masonry, lift charges, curing , overheads & contractors profit etc., complete for finished item of work as per SS 504.	Cum	117.00	6,167.00	721,539.00
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12.2	Masonry work in CM(1:6) prop (Cement : Screened sand) with fly ash cement / lime solid blocks of size 290mm x 225mm x 140mm from approved source having minimum crushing strength of 50 Kg/Sqcm. including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, labour charges, like mixing cement mortar, scaffolding charges, constructing masonry, lift charges, curing, cost of overheads and contractors profit etc., complete for finished item of work. (APSS No. 501 & 504).	Cum	107.00	6,243.00	668,001.00
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12.3	Reinforced Masonry for partition walls (100 mm thick) in CM (1:4) prop. (Cement : Screened sand) using fly ash cement / lime solid blocks of size 290mm x 100mm x 140mm having minimum compressive strength of 50 Kg/Sq.cm and placing 2 Nos. of 6mm M.S plain rods in every third layer with free ends of the reinforcement pegged into mortar joints of main brick walls where applicable including cost and conveyance of all materials like cement, steel, sand, bricks, water etc., to site, all operational, incidental charges such as labour charges for mixing cement mortar, scaffolding charges, constructing masonry, lift charges, curing, and cost of overheads & contractors profit etc., complete but excluding cost of steel and its fabrication charges complete for finished item of work. (APSS No. of 500)	Sqm	372.50	694.00	258,515.00
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13	PLASTERING				-
					-
13.1	Ceiling				-

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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
	Ornamental ceiling plastering 12mm thick using screened sand with base coat of 8 mm thick in CM(1:5) and top coat of 4mm thick in CM(1:3) with dubara sponge finishing including cost and conveyance of all materials like cement, sand, water etc., to site, all operational, incidental charges on materials and including cost of all labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, cutting grooves as directed by Engineer-in-charge etc., and overheads & contractors profit complete for finished item of work .(SS 901,903 & 904)	Sqm	1583.00	373.00	590,459.00
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13.2	Internal				-
	Plastering 12mm thick in two coats using screened sand with base coat of 8mm thick in CM (1:6) and top coat of 4mm thick in CM (1:4) with dubara sponge finishing including cost and conveyance of all materials like cement, sand, water etc., to site, all operational, incidental charges on materials, cost of all labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, cutting grooves as directed by Engineer - in - charge etc., and overheads & contractors profit complete for finished item of work. (SS 901,903 & 904)	Sqm	2788.00	357.00	995,316.00
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13.3	External				-
					-
	Plastering 20mm thick in two coats using screened sand with base coat of 16mm thick in CM (1:6) and top coat of 4mm thick in CM (1:4) with dubara sponge finishing including cost and conveyance of all materials like cement, sand, water etc., to site, excluding seigniorage charges but including sales & other taxes on all materials, and all operational, incidental charges on materials and including cost of all labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, including cutting grooves as directed by Engineer - in - charge etc., and overheads & contractors profit complete for finished item of work. (SS 901,903	Sqm	1218.00	389.00	473,802.00
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13.4	Flush pointing to CRS masonry in basement with LM(1:4) including seignorage, cost and conveyance of all materials and water from approved source to work site and all operational, incidental, labour charges such as raking mortar to required depth, washing wall, mixing of Lime mortar, pointing the joints of masonry, curing, etc., complete for finished item of exterior faces of basement	Sqm	3203.00	97.30	311,651.90
					-
14	PAINTING				-
14.1	Ceiling				-

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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
	White washing three coats with paint grade white lime to ceiling and basement to give an even shade after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials including cost and conveyance of all materials to site , labour charges and incidental charges such as scaffolding , lift charges etc., complete and cost of overheads & contractors profit complete for finished item of work .	Sqm	1582.00	42.00	66,444.00
	Internal				-
14.2	Painting to new walls with 2 coats of ready mixed oil bound washable distemper having VOC content less than 50 grams/liter of approved brand and shade over a base coat of appropriate primer of interior grade-1 of approved brand, making 3 coats in all to give an even shade after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials, including cost and conveyance of all materials to work site and all operational, incidental, labour charges etc. complete and cost of overheads & contractors profit for finished item of work as per SS 911 for internal walls.	Sqm	2331.00	101.00	235,431.00
	External				-
14.3	Painting to new walls with 2 coats of ready mixed oil bound washable distemper Acrylic based (Asian/Berger/Nerolac/Saicoat/Indocem) over a base coat of cement primer water based interior Gr-1 (Asian/Berger/Nerolac/Saicoat/Indocem) as approved by Engineer-In-Charge, making 3 coats in all to give an even shade after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials, including cost and conveyance of all materials to work site and all operational, incidental, labour charges etc., and overheads & contractors profit complete for finished item of work as per	Sqm	978.00	181.00	177,018.00
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14.4	Putty				-
14.4.1	Providing and applying synthetic plaster putty or plaster of paris putty or lime punning of average 1 to 2 mm thickness over plastered surface to prepare the surface even and smooth after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials, applying emery paper, Sand the surface, clean & wipe off loose dust, applying knifing paste filler by putty knife / muslin pad, air dry for 2 - 3 hrs, sand with 180 and 320 No., emery paper for the surface preparation including cost and conveyance of all materials to work site and all operational, incidental, labour charges , overheads & contractors profit etc., complete for finished item of work for Internal walls	Sqm	3141.00	334.00	1,049,094.00
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15	JOINERY WORK				-
15.1	Doors				-

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Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
15.1.1	Supply and fixing Door as per drawing with medium teakwood frame of size 63 X100mm (2½" X 4") and Flush type single shutter 35mm thick solid core type hot pressed bonded with water proof phenol formal dehydroxide synthetic resin IS 2202(part-II) 2983, 4mm thick polish grade on bothsides teak veneer with internal lipping and Melamine polish,including cost and conveyance of all materials to work site and including all taxes ,all labour charges for making, fixing of door furniture in position but including cost of furniture fittings like 6 Nos of 250mm long M. S hold past,3Nos of 125mm long Brass hinges,2 Nos Tower bolts200mm long,Door closer automatic hyper brand ,cylinder bord handle both side key 60mm brand,mortice lock brass50mm, mortice handle set 10" CP silver gold,etc.,for brass fitting,screws , nouts etc.,with best certificates for materials including all tools cost and conveyance of all materials to and all incidental for different of doors as mentioned in approved drg. for finished item of work.	Sqm	49.50	7,000.00	346,500.00
15.1.2	Providing and fixing factory made polyvinyl chloride (PVC) Door Frame of the size 50 x 47mm with a wall thickness of 5mm, made out of extruded 10 mm rigid PVC foam sheet, mitre cut at two corners and joined with 2nos. of 150mm long brackets of 15x15mm M.S. square tube. The two vertical door profiles are to be reinforced with 19x19mm M.S. Square tube of 19 gauges. The door frame shall be fixed to the wall using 65/100mm long M.S. Screws through the frame by using PVC fasteners. A minimum of 4nos. of screws to be provided for each vertical	Sqm	25.50	3,740.00	95,370.00
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16	UPVC - WINDOWS, VENTILATORS				-
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16.1	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) 3 track sliding windows with mesh shutter – (2-glass shutters and 1-mesh shutter) duly manufactured using UPVC reinforced profiles (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin) of (94 mm x 45 mm)/(80 mm x 52 mm) x 2.20 mm for outer frames, (58 mm x 39 mm)/(54 mm x 38 mm) x 2.20 mm for sliding shutter frames capable of mounting single glazing system structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.0/1.2 mm prefabricated & welded through fusion welding. The window sash shall be fitted with 5 mm thick clear float glass of reputed make and mesh shutter frame shall be (42 mm x25 mm)/(52 mm x 21.5 mm) x 2.0 mm fitted with Vinyl Coated Fibre mesh- on rollers/ pulley duly fixed with Grey colour TPV Gasket for sash & Glazing bead shall be co-extruded with Grey colour soft PVC. System shall have single point locking with Touch Lock and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work - FOR WINDOWS W1 & W.	Sqm	39.50	7,563.00	298,738.50
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16.2	Providing, supplying & fixing of Fixed Louvered Ventilator made out of multi chambered uPVC sections with Glazing bead shall be co-extruded with Grey colour soft PVC. having isolated drainage and reinforced with Galvanized Iron profiles throughout the window. The outer framehaving an overall size of 60 mm x 55 mm x 2.40 with reinforcement of 1 mm thickness and mullion with overall size of 74 mm x 60 mm x 2.40 mm with reinforcement of 1 mm thickness. (Composition of profile shall consists a minimum of 5.5 PHR of TiO2 and not more than 12 PHR of CaCo3 for every 100 parts of PVC resin). Ventilator shall be provided with 4.5 mm Pin Head glass, standard hardware. Wall thickness of frame & Mullion shall be 2.4 mm., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site complete for finished item of work - FOR VENTILATORS	Sqm	12.30	6,806.00	83,713.80
17	FABRICATION WORK				-
17.1	Supplying and fixing ornamental MS Grills including fabrication and erection in position using alround frame of 25mm X 6mm MS flat welded with 10mm X 10mm square bar rods placed at 4" and 2" c/c (alternate spacing) fixed in both horizontal and vertical directions including cost and conveyance of all materials to work site, all operational, incidental labour charges, power charges, overheads & contractors profit etc., complete for finished item of work.	Sqm	41.50	1,865.00	77,397.50
17.2	Supply & fixing of Rolling shutter made of 80 x 1.25 mm machine rolled CRCA laths, interlocked together through their entire length and jointed together at the ends by end-locks, mounted on specially designed pipe shaft of 50mm Diameter nominal bore MS B class pipe with brackets, plates, guide channels, stoppers, bottom locking plates and arrangements for inside & outside locking with push-pull operations including cost of hood cover and springs complete, painted with one coat of approved steel primer, locks, ball bearings, all accessories etc complete for finished item of work as per special Spec: 1108, including overheads and contractor's profit complete for finished item of work.	Sqm	7.00	4,017.00	28,119.00
18	FLOORING				-
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18.1	Flooring with vitrified polished floor tiles of 1st quality and make as approved by Engineer-in-charge of size not less than 598 mm x 598 mm , 8mm thickness regular finish and normal colours with borders and design as per the approved flooring pattern as directed by the Engineer-In -Charge set over a base coat of CM (1:8) prop. 12mm thick over CC bed already laid or RCC roof slab , including neat cement slurry of honey like consistency spread @ 3.3 kgs per Sqm. and jointed neatly with white cement paste to full depth mixed with pigment of matching shade including cost and conveyance of all materials like cement, sand, water, tiles, white cement etc., to site (excluding cost of C.C. bed) including cost of seigniorage charges on all materials, cost of base coat and all labour charges for mixing of cement mortar, laying tiles to required slope as directed by the Engineer- in-charge etc.,and overheads & contractors profit complete for finished item of work.	Sqm	766.50	996.00	763,434.00
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18.2	Skirting 4" high with Vitrified Polished floor tiles 600 x 600 x 8 mm thick. normal colour of 1st. Quality laid over C.C. Flooring bed set over 12mm thick in C.M.(1:5) prop base coat and neat grey cement slurry of honey like consistency spread at the rate of 3.3 kgs of cement per sqm and jointed with neat cement paste, including seigniorage, cost and conveyance of all materials and water from approved sources to work site and all operational, incidental, labour charges such as mixing mortar, dressing, laying, lift charges, curring etc, complete for finished item of work	Sqm	135.50	989.00	134,009.50
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18.3	Flooring with Non-skid red or white full body Ceramic floor tiles of size 300 x 300 mm and thickness between 7-8 mm 1st quality conforming to IS:13711, IS:13712, IS:13630 (Parts 1 to 15) of any colour and finish in all shades and designs set over a base coat of CM (1:8) prop. 12mm thick including neat cement slurry of honey like consistency spread at the rate of 3.3kg per sqm and filling the joints with white cement mixed with pigment of matching shade to match the shade of tiles over a bed of C.C. or R.C.C. slab, including cost and conveyance of all materials like cement, sand, water, ceramic tiles, white cement etc., to site (excluding cost of C.C. bed), cost of base coat and all labour charges for mixing of	Sqm	140.50	874.00	122,797.00
					-
	Providing 16 to 18mm thick high polished granite stone slabs of regular colours (other than black) (i.e. of shades like paradiso / bala flower / copper silk / laka red / lavender blue) with borders and design as per the pattern approved by the Engineer-in-Charge of length not less than 2.43 mts set over base coat of cement mortar (1:5) , 12mm thick using screened sand over CC bed already laid or RCC roof slab including neat grey cement slurry of honey like consistency spread @ 3.3 Kg per sqm and jointed neatly with white cement paste mixed with pigment of matching shade to full depth including cost and conveyance of all materials like cement , sand , water , granite slabs etc., to work site and all operational, incidental labour & lift charges, half rounding the edges of treads , polishing charges and cost of base coat and overheads & contractors profit, complete for finished item of work for treads (S.S.701 & special)		7.00	5,281.00	
					-

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BMMERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
18.4	Providing 16 to 18mm thick high polished granite stone slabs of regular colours (other than black) (i.e. of shades like paradiso / bala flower / copper silk / laka red / lavender blue) with borders and design as per the pattern approved by the Engineer-in-Charge of length not less than 2.43 mts set over base coat of cement mortar (1:5) , 12mm thick using screened sand over CC bed already laid or RCC roof slab including neat grey cement slurry of honey like consistency spread @ 3.3 Kg per sqm and jointed neatly with white cement paste mixed with pigment of matching shade to full depth including cost and conveyance of all materials like cement , sand , water , granite slabs etc., to work site and all operational, incidental labour & lift charges, polishing charges and cost of base coat and overheads & contractors profit, complete for finished item of work for Risers (S.S.701 & special)	Sqm	93.00	3,818.00	355,074.00
					-
18.5	Providing dadoing to walls with glazed coloured tiles 1st quality of size with borders as approved by Engineer-in-Charge set over base coat of CM(1:5) 12 mm thick with cement slurry of honey like consistency spread at the rate of 3.30 kgs per sqm and jointing with white cement paste mixed with pigment of matching shade to full depth, including cost of all materials like tiles, cement, sand and water etc., complete including seigniorage charges etc., and overheads & contractors profit complete for finished item of work.	Sqm	318.00	909.00	289,062.00
18.6	RCM facia 50mm thick using screened sand for drop walls, fins with rabbit wire mesh & nominal reinforcement as directed by Engineer - In - Charge with dubara sponge finishing,including cost and conveyance of all materials to site, all operationals & incidental charges, cost and conveyance of cement, wire mesh, water to work site, centering, scaffolding and form work, lift charges etc., and overheads & contractors profit complete for finished item of work but excluding cost of steel and its fabrication charges for finished item of work (APSS NO.403&903)	Sqm	280.00	1928	539,840.00
					-
18.7	Lintel with Tandur stone slabs of 40mm thick any size as specified including cost and conveyance of all materials like cement, sand, water, flooring stones, all labour charges like dressing of flooring stones to the required size, laying, lift charges , cost of base coat etc., and overheads & contractors profit complete for finished item of work.	Sqm	33.50	140	4,690.00

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMMERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
18.8	Flooring with polished shahabad / Tandur stone slabs of 15mm to 18mm thick 0.457m x 0.304m or any other size as specified set over a base coat of CM (1:8) , 12mm thick using screened sand over already laid CC bed / RCC roof slab including neat cement slurry of honey like consistency spread @ 3.3 Kgs per Sqm and jointed with neat cement to full depth including cost and conveyance of all materials like cement, sand, water, flooring stones etc. complete, all labour charges like dressing of flooring stones to the required size, mixing of cement mortar, laying, lift charges , cost of base coat etc., and overheads & contractors profit complete for finished item of work. (APSS No.703 & 701)		1943.00	541.00	1,051,163.00
					-
18.9	Providing and laying Manglore tiles (as per approved pattern and nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete including cost of all materials like cement, sand water and tiles etc., complete for finished item of work		335.00	806.00	270,010.00
19	ANTITERMITE TREATMENT ON PLINTH AREA				-
					-
19.1	Providing pre-construction anti-termite treatment as per manufacturers specifications and as specified in IS 6313 (Part-II) 1981 with emulsifiable concentrates as approved by the Architects / Employer mixed with water all complete under 10 years guarantee with all materials labour & all necessary operation tools etc., complete as directed. Work to be got executed by specialised agency after obtaining the approval of Employer. Rate shall be on plinth area basis.	Sqm	2842.00	292.00	829,864.00
20	Providing & laying Selection no. 1 grass turf with earth 50mm to 60mm thickness on existing ground prepared with proper level and ramming with required tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same, as per direction of officer in charge	Sqm	3485.00	77.00	268,345.00
21	Supply and fixing of Pergolas & Seating Bench with Concrete post and Wooden beams using Second Class Teak wood as per detail design and measurement given in the detail drawings	Cum	1.90	120321.00	228,609.90
22.1	Supply of the following Tree to the site including transportation & loading and unloading preparation digging filling and planting etc complete (Excluding Red Soil Cost)				-
22.2	Tamarind Tree	Nos	10.00	350.00	3,500.00
22.3	Sal Tree	Nos	20.00	400.00	8,000.00
22.4	Golden Shavel Tree	Nos	43.00	300.00	12,900.00

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMMERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
22.5	Neem Tree	Nos	20.00	300.00	6,000.00
22.6	Baohinia Veriegata	Nos	12.00	300.00	3,600.00
22.7	Ganneru Plant	Nos	12.00	650.00	7,800.00
22.8	Deva Ganneru Plant	Nos	10.00	250.00	2,500.00
22.9	Rose	Nos	240.00	350.00	84,000.00
22.10	Shevanti Tree	Nos	250.00	320.00	80,000.00
22.11	Tulsi Tree	Nos	1.00	455.00	455.00
22.12	Vinca Tree	Nos	380.00	380.00	144,400.00
22.13	Moss Rose	Nos	8.00	500.00	4,000.00
22.14	Verbina Tree	Nos	33.00	350.00	11,550.00
22.15	Autummicrocus	Nos	450.00	265.00	119,250.00
22.16	Mango Tree	Nos	16.00	500.00	8,000.00
22.17	Date Palm Tree	Nos	20.00	1000.00	20,000.00
22.18	Banana Tree	Nos	15.00	150.00	2,250.00
22.19	Poinsettia Tree (Red)	Nos	85.00	250.00	21,250.00
22.20	Poinsettia Tree (Pink)	Nos	53.00	240.00	12,720.00
22.21	Rain Tree	Nos	10.00	150.00	1,500.00
22.22	Peepal Tree	Nos	2.00	150.00	300.00
22.23	Paarijaatham Tree	Nos	12.00	250.00	3,000.00
	Water Supply				
23	Supplying and fixing approved make wash down European Water Closet of 1st quality conforming to IS:2556-Part-2- 2004 of white glazed with 'S' trap with CI short Connector & 4" dia CP thimble pipe: 150 mm long, best Indian make plastic seat and lid for European water closets with rubber or plastic Buffers as per IS 2548-1996, PVC low level system with internal components & short bend: 10 Litres capacity Single Flush, 15 mm brass angle stop valve of quarter turn spindle type of not less than 400 grams weight with internal threaded conforming to IS 8931 and 15 mm nominal size PVC connection with brass union nut C.P coated all of approved make, including cost and conveyance of all materials and labour charges, overheads and contractor's profit etc., complete as per standard practice for finished item of work.	Each	6.00	5,530.00	33,180.00
24	S&F of 15 mm brass body CP finish long body bib tap of not less than 400 grams weight with quarter turn spindle internal / external threaded connection conforming to IS 8931	Each	15.00	788.00	11,820.00

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
25	Supplying & Fixing Indian make WHITE Flat Back Wash Hand Basin of size 550 x 400 mm with Single C.P. Pillar cock 1st quality conforming to IS:2556-Part-4:1972 with waste fittings like rubber plug, chain, 32 mm nominal size C.P. Fitting with parallel pipe thread conforming to IS:2963- 1979 and fitted with 15 mm nominal bore Chromium Plated Pillar Tap of 1st quality Indian make 400 grams Seiko/Senior/ Nice/ Esso or equivalent, 15 mm brass angle stop valve of quarter turn spindle type of not less than 400 grams weight with internal threaded onforming to IS 8931, 15 mm nominal size PVC connection with brass union nut C.P coated, 30 mm nominal size dia PVC flexible waste pipe of 914.4 mm length of Ist quality and standard CI brackets including wooden block, including cost and conveyance of all materials, overheads and contractor's profit etc. complete for finished item of work in all respects.	Nos	14.00	2,396.00	33,544.00
26	Supplying & Fixing Orissa Pan White glazed W.C 1st quality ISI marked conforming to IS:2556-Part-3-1981 with "P" or "S" trap Hindware/ Parryware/ Neycer - ISI Mark: 580 mm x 440 mm duly providing constructing Brick masonry seat using 2nd class bricks, CC Squatting plate in P.C.C 1:2:4, S&F PVC Low level system with internal components & short bend: 10 Litres capacity Single Flush, S&F of 15 mm brass angle stop valve of quarter turn spindle type of not less than 400 grams weight with internal threaded conforming to IS 8931 and S&F 15 mm nominal size PVC connection with brass union nut C.P coated including cost and conveyance of all materials and labour charges, overheads and contractor's profit etc., complete as per standard practice for finished item of work.	Each	10.00	4,386.00	43,860.00
27	Supplying & Fixing white glazed flat back Bowl urinals of size 440 mm x 265 mm x 315 mm with internal flushing rim fixed with screws complete Indian make conforming to IS:2556-1995, fitted with 15 mm brass body CP finish self closing tap push type conforming to IS 1711 and 30 mm nominal size dia PVC flexible waste pipe of 914.4 mm length of Ist quality including cost and conveyance of all materials, overheads and contractor's profit etc. complete for finished item of work in all respects.	Nos	4.00	1,180.00	4,720.00
28	S&F of 15 mm premium variety Chromium plated finish brass body wall mixer with hand shower with a provision for over head shower with 115 mm long bend pipe on upper side, connecting legs & wall flanges conforming to IS 8931 with 10 years warranty overhead & contractor's profit complete for finished item of work in all floors as directed by Engineer-in-charge.	Nos	5.00	3,761.00	18,805.00
29	Supplying & fixing stainless steel sink size 36" x 18" (914.4x457.2mm) 1 mm thick with accessories including cost & conveyance of all materials, labour charges, etc. overhead & contractor's profit complete for finished item of work in all floors as directed by Engineer-in-charge.	Nos	1.00	7,071.00	7,071.00
30	S & F 25 mm nominal size dia & 609.6 mm long aluminium anodized towel rod with brackets and aluminium screws	Nos	9.00	169.00	1,521.00
31	Supplying and fixing TV shape mirror with plastic frame size 609.6 mm x 457 .2 mm best quality glass mirror with approved make 1st quality including cost & conveyance of all materials, labour charges, etc. overhead & contractor's profit complete for finished item of work in all floors as directed by Engineer-in-charge.	Nos	14.00	529.00	7,406.00

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBERRA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
32	Supply and fixing CP finish brass soap dish of approved make with screws etc., complete for finished item of work in all floors, including cost & conveyance of all materials, labour charges, etc. and overhead & contractor's profit complete for finished item of work as directed by Engineer-in-charge.	Nos	19.00	584.00	11,096.00
33	Supplying and fixing of SWR PVC pipes of 4 Kg/Sq.cm. and fixing all specials such as plain bends, off sets, door bends, single junctions, double junctions as per site requirement, fixing with PVC clamps with required number of Bombay nails etc with solvent jointing as per standard practice including cost and conveyance of all materials to site, labour charges, overheads & contractors profit complete for finished item of work at all floor levels . (APSS No. 1302 1319 & 1326)				-
33.1	75mm dia	Rmt	34.10	269.00	9,172.90
33.2	110mm dia	Rmt	49.00	414.00	20,286.00
34	Supplying & fixing of 4" (101.6 mm) multi floor trap with Jali- UPVC/SWR Pipe fittings including cost and conveyance of all materials to site, labour charges, overheads & contractors profit complete for finished item of work.	Nos	22.00	162.00	3,564.00
35	Supplying & fixing 150 mm x 100 mm SWG gully traps conforming to ISI 651 & 4127 with C.I Grating & constructing Brick masonry in CM 1:6 prop. over a C.C. (1:5:10) prop. Bed 100mm thick and plastering 12mm thick in CM (1:4) prop. both inside and outside surfaces and fitted with 304.8 mm x 288.6mm (12" x 9") C.I. frame and hinged cover of standard make as directed by the Engineer-in-charge including cost & conveyance to site, labour charges, etc. complete for finished item of work. (APSS No 1326)	Nos	13.00	703.00	9,139.00
36	Constructing 457.2 mm x 457.2 mm (1'6"x1'6") brick in CM 1:6 prop. Masonry. Inspection chamber up to 914.4 mm (3'0") and fitted with light weight 457.2 mm x 457.2 mm (1'6"x1'6") C.I frame and cover of 20 Kg.	Nos	11.00	4,332.00	47,652.00
37	Supplying and fixing of Cast Iron pipes & fittings as per IS:1729-1979 of reputed make with cement caulked joints and fixing all specials such as plug bends, offsets, single junctions, C.I. cowls, double junctions etc., as per site requirements including painting black with Japan paint and fixing with necessary wooden blocks fixed in the masonry walls in cement mortar (1½:1)and including fixing of M.S. clamps as per necessity with required no.of Bombay nails etc., complete at all floor levels including cost & conveyance of all materials, labour charges, etc. complete for finished item of work (A.P.S.S. Nos. 1302 & 1319)				-
37.1	4" dia (101.6mm)	Nos	100.00	1,597.00	159,700.00
38	S&F premium make CPVC Pipes including the cost of pipe & its fittings & labour charges complete including cost of overheads & contractor profit etc. for finished item of work as directed by Engineer-in-charge				-
38.1	S&F premium make CPVC Pipes of 15.90mm OD Pipe - SDR 13.5	Rmt	35.00	145.00	5,075.00
38.2	S&F premium make CPVC Pipes of 22.20mm OD Pipe - SDR 13.5	Rmt	48.00	166.00	7,968.00
39	S & F Bronze Ball valve with SS Ball and SS Spindle as per IS - Class - I, Indian make heavy type as approved by the Engineer including cost & conveyance of all materials, labour charges, etc. complete for finished item of work in all floors as directed by Engineer-in-charge.				-

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBERRA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
39.1	32 mm Nominal Bore	Nos	5.00	774.00	3,870.00
40	Constructing 904.0 mm (3'0") dia solid block masonry inspection chamber as per IS - 4111: Part-1:1986 with cement mortar (1:6) prop using fly-ash blocks of 225 mm thick from approved source having a minimum crushing strength of 10 N/sq.mm including plastering with cement mortar 1:3 prop; ½" thick both inside and outside fitted with 20" dia RCC manhole covers and frames including excavating pits up to a depth of 904 mm (3'-0") in all sorts of soils (excluding rock) and laying cement concrete (1:4:8) 150 mm thick using 40 mm HBG Metal and P.C.C. 1:2:4 benching and channel 100 mm thick as per Standard specification and including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of excluding seigniorage charges on all materials and all incidental and operational, labour charges like mixing cement mortar, constructing masonry, lift charges, curing etc., complete for finished item of work as per Standard specification. 3'-0" Depth	Nos	5.00	8,337.00	41,685.00
41	Providing, laying, joining HDPE pipes including tees, elbows, bends, reducers, couplings, union flanges etc., complete and specials PE-80 grade (PN 8 Class) conforming to IS:4984 by butt welding using a hydraulic jack equipped with heat mirror having digital / gauge for temperature and pressure display as per manufacturers specifications, providing flanges for fixing of valves as required, including hydrostatic pressure testing the pipe system to a hydraulic pressure of 7.5 kg/sq.cm or 1.25 times the working pressure whichever is higher, the pipe system shall be observed for a period of not less than 6 hours, making good leaks if any etc., complete(Pipes running at below the ground) with testing and disinfection with water containing bleaching powder, complete all as specified and as directed at site				
41.1	50mm	Metre	600.00	115.30	69,180.00
41.2	25mm	Metre	200.00	52.50	10,500.00
				-	-
42	Supplying & fixing tested gun metal peet valve of 1st quality make with ISI mark screw type as approved by the Engineer including cost & conveyance of all materials, labour charges, etc. complete for finished item of work in all floors as directed by Engineer-in-charge.	Each	13.00	2,380.00	30,940.00
				-	-
43	Supplying & fixing tested gun metal Horizontal Check NON-RETURN valve of 1st quality make with ISI mark screw type as approved by the Engineer including cost & conveyance of all materials, labour charges, etc. complete for finished item of work in all floors as directed by Engineer-in-charge.	Each	8.00	2,402.00	19,216.00
				-	-
44	Supplying & fixing tested Vertical Openwell Submersible Pump 7.5 HP with ISI mark screw type as approved by the Engineer including cost & conveyance of all materials, labour charges, etc. complete for finished item of work in all building as directed by Engineer-in-charge.	Each	1.00	42,948.45	42,948.45
				-	-

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBURA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
45	Supplying & fixing tested Vertical Openwell Submersible Pump 1.5 HP with ISI mark screw type as approved by the Engineer including cost & conveyance of all materials, labour charges, etc. complete for finished item of work in all building as directed by Engineer-in-charge.	Each	2.00	19,353.18	38,706.36
46	Supply and Laying of ISI 25mm outer dia heavy grade with IS:9537 part 3 rigid PVC pipe concealed in Roof Slabs with all required PVC Junction Boxes including binding wire work, and rechecking the continuity of pipes during slab laying and also after removing the centering work including all labour and other incidental charges etc., complete and as directed by the Dept. Makes : Sudhakar / Modi / AKG / VIP.	Mtrs	1800.00	83.62	150,516.00
47	Supply and laying of ISI marked 25mm outer dia medium grade with IS:9537 part 3 rigid PVC pipe concealed in wall with PVC junction boxes, accessories including masonry work including chisseling brick work, engaging skilled mason for fine wall cement plastering & all labour charges etc., complete for Run of mains.(Data No. 5.1.2)Makes : Sudhakar / Modi / AKG / VIP	Mtrs	800.00	71.19	56,952.00
48	Supply and laying of ISI 25mm outer dia medium grade with IS:9537 part 3 rigidPVC pipe concealed in wall with PVC junction boxes, accessories including masonry work for light, fan and separate plug point including chisseling brick work, engaging skilled mason for fine wall cement plastering & all labour charges etc., complete. Makes : Sudhakar / Modi / AKG / VIP.	Mtrs	500.00	71.19	35,595.00
49	Supply and fixing of Anchor fastner with fan hook / Providing MS Fan hook in slab	Nos	43.00	50.06	2,152.54
50	Wiring with run of 2 of 22/0.3mm (1.5 Sq.mm) FRLS / HFFR PVC insulated flexible ISI marked copper cable make in existing consealed pipe including supply and fixing of 3 Plate Jumbo Ceiling rose/BH/SBH of Anchor / Gold Medal Olive / Million Zoom make , 6A/10A ISI marked Modular type switch with cover frame duly concealed in wall including cost and conveyance of all material and all labour charges etc., complete for light and bell points in N.R.B. Copper cable makes: Finolex / RR kabel / Havells. Switch Makes: Legrand Myrius / Cabtree Verona / Gold Medal Curve / Anchor Roma viola .	Pts	228.00	674.61	153,811.08
51	Wiring with run of 3 of 22/0.3mm (1.5 Sq.mm) FRLS / HFFR PVC insulated flexible ISI marked copper cable make in existing consealed pipe including supply and fixing of 3 Plate Jumbo Ceiling rose of Anchor / Gold Medal Olive / Million Zoom make , 6A ISI marked Modular type switch with cover frame and necessary modular box duly concealed in wall including cost and conveyance of all material and all labour charges etc., complete for fan and exhaust fan points in N.R.B. Copper cable makes: Finolex / RR kabel / Havells. Switch Makes: Legrand Myrius / Cabtree Verona / Gold Medal Curve / Anchor Roma viola .	Pts	58.00	826.03	47,909.74

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBURA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
				-	
52	Supply and fixing of ISI Marked 6A/10A 3/2 pin Modular socket with 6A/10A 1way Modular switch and cover frame on a common switch board with connections including cost and conveyance of all materials and all labour charges etc., complete in N.R.B. / R.B. Makes : Legrand Myrius / Cabtree Verona / Gold Medal Curve / Anchor Roma viola	Nos	25.00	432.79	10,819.75
				-	
53	Supply and fixing of ISI marked 16A 3pin / 6A 3 Pin 1 way Modular combi socket, 16 Amps Modular switch with indicator on a 3 Modular box with suitable cover frame with connections including cost and conveyance of all material and all labour charges etc., complete in N.R.B. / R.B. Makes : Legrand Myrius / Cabtree Verona / Gold Medal Curve / Anchor Roma viola	Nos.	21.00	597.77	12,553.17
				-	
54	Supply and fixing of 20A 1 way Modular switch with indicator and cover frame on common switch board with Module box with connections including cost and conveyance of all materials and all labour charges etc., complete in N.R.B. / R.B. Makes : Legrand Myrius / Cabtree Verona / Gold Medal Curve / Anchor Roma viola		2.00	294.93	589.86
				-	
55	Supply and fixing of 3 Nos 6A Modular type switches, 3Nos 6A 3/2 pin wall plug sockets on 9 Modular box with cover frame including connections, cost and conveyance of all material and all labour charges etc., complete for Computers in N.R.B. / R.B. Makes : Legrand Myrius / Cabtree Thames Platinum / Gold Medal Curve / Anchor Roma viola .	Nos.	6.00	1,130.00	6,780.00
				-	
56	Supply and Run of 3 of 36/0.3mm (2.50 Sq.mm) FRLS / HFFR PVC insulated flexible ISI marked copper cable in existing pipe for run of mains including connections and all labour charges etc., complete. Copper cable makes: Finolex / RR kabel / Havells.	Mtrs	1800.00	106.22	191,196.00
				-	
57	Supply and Run of 3 of 56/0.3mm (4.0 Sq.mm) FRLS / HFFR PVC insulated flexible ISI marked copper cable in existing pipe for run of mains including connections and all labour charges etc., complete. (SD 3.1.5) Copper cable makes: Finolex / RR kabel / Havells.	Mtrs	900.00	162.72	146,448.00
				-	
58	Supply and Run of 3 of 84/0.3mm (6.0 Sq.mm) FRLS / HFFR PVC insulated flexible ISI mark copper cable in existing pipe for run of mains including all labour charges etc., complete. Copper cable makes: Finolex / RR kabel / Havells.	Mtrs	120.00	231.65	27,798.00
				-	
59	Supply and Run of 5 of 84/0.3mm (6.0 Sq.mm) FRLS / HFFR PVC insulated flexible ISI mark copper cable in existing pipe for run of mains including all labour charges etc., complete. Copper cable makes: Finolex / RR kabel / Havells.	Mtrs	720.00	396.63	285,573.60
				-	

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMMERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
60	Supply and fixing of DB with 1 No 20A single phase plug and Socket, in sheet steel enclosure with 1 No 10A to 20A 10 KA SP MCB including internal connection and labour charges for Flush Mounting etc., complete of make Legrand / schneider	No	3.00	1,909.70	5,729.10
				-	
61	Supply and fixing of 8 Way SPN DB with IP 43 Protection as per IS:13032 including Supply and Fixing of 1 No 40 A DP Isolator and 6 Nos 6-32 A 10kA ISI Marked C/D curve SP MCBs with all connections and labour charges etc., complete for Flush Mounting of DB Makes : Legrand / Shneider, Isolator, MCB Makes : Legrand-DX3 / Shneider-Acti9.(SD 4.4.2)(Garden room-1, Electrical room-1, Store room -1, Ticket Counter-1, Tiolet Block-1)	Nos	5.00	5,039.80	25,199.00
				-	
62	Supply and fixing of 8 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 with 1 No 63A FP Isolator and 24 Nos 6-32 A 10kA ISI Marked C/D curve SP MCBs including all connections and labour charges for Flush Mounting etc., complete. (Food Court) DB Makes : Legrand / Shneider. Isolator, MCB Makes : Legrand-DX3 / Shneider-Acti9	No	1.00	12,407.40	12,407.40
				-	
63	Supply and fixing of 4 Way TPN DB Horizontal with IP 43 Protection as per IS:13032 with 1 No 63A FP Isolator and 12 Nos 6-32 A 10kA ISI Marked C/D curve SP MCBs including all connections and labour charges for Flush Mounting etc., complete. Interpretation Center) DB Makes : Legrand / Shneider. Isolator, MCB Makes : Legrand-DX3 / Shneider-Acti9	No	1.00	8,192.50	8,192.50
				-	
64	Supply and fixing of 4 Way TPN DB suitable for accommodating 4 pole Isolator as incomer with IP 43 Protection as per IS:13032 and suitable for 1 No 40A FP Isolator, 12 Nos 6-32A 10KA SP MCB, C/D Curve ISI Mark including internal connections and labour charges for Flush Mounting etc., complete. (LDBs) DB Makes : Legrand / Shneider. (Memorial -2, Interpretation center -2, Thoranam-1) Isolator, MCB Makes : Legrand-DX3 / Shneider-Acti9	Nos	5.00	8,113.40	40,567.00
				-	
65	"Supply and fixing of 8Way VTPN DB with IP 43 Protection as per IS:13032 with 1 No 125A FP MCCB confirms to IS/IEC 60947-2 and 3Nos of 40-63A 10KA TP MCB, C/D Curve ISI Marked and 6 Nos 6-32A SPMCBs including connections and labour charges for FLUSH Mounting etc., complete. DB Makes : Legrand / Shneider.(Interpretation center) MCCB, MCB Makes : Legrand-DX3 / Shneider-Acti9."	No	1.00	30,317.90	30,317.90
				-	

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBERRA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
66	"Supply , transportation, and fixing of 22W, 2500 lumens, 1185mm length LED batten, housing made with aluminium extrusion, wide operating voltage range from 140V-2720V AC, PF≥0.9, IP 20 , Class -C serviceability, THD<20%, CCT: 4000K / 6500K as desired by the department and as per IS specifications, minimum CRI≥80,.etc suitable for mounting on wall/surface/suspendable complete with 5 years warranty. LUMINAIRE MAKE: Phillips model Number BN021LED25S6500PSU GR S1 LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs	Nos.	57.00	1,367.30	77,936.10
				-	
67	Supply, Transportation and Fixing of 48" (1200mm) Sweep 5 Star rated Ceiling Fan as per IS 374 - 1979 of Makes : Crompton High Speed Decora / Bajaj Regal star / Havells Fusion 50 / Orient Summer Crown .,but without regulator including all standard accessories with twin core flat copper wire of Finolex / RR kabel / Havells / Polycab / GM / Million / V-Guard / Gold Medal / HPL / RPG / Payal ,connections and all labour charges etc., complete. (Mod-Data No. 23.1.2)	Nos	43.00	2,248.70	96,694.10
68	"Supply and fixing of Modular type stepped Electronic Regulator with connections and Labour charges etc complete. . of Legrand Myrius / Cabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola .	Nos	43.00	482.51	20,747.93
				-	
69	Supply, Transportation and Fixing of light duty 12" (300mm) ISI, Exhaust fan ISI marked, with wire Guard and with all labour charges etc., complete as directed at site Makes:Crompton / Bajaj Bahar WG / Havells Ventil Air-DB / Orient hill air.	Nos	8.00	2,000.10	16,000.80
				-	
70	Supply of 2 Pair, 0.5mm telephone copper wire in the existing PVC pipe including all labour charges etc complete. Makes : Finolex / Delton / Surabi / Polycab	Mtrs	80.00	21.13	1,690.48
				-	
71	Supply and fixing of Modular socket type Telephone jack with Connector. Makes : Legrand Myrius / Cabtree Verona / Anchor Roma viola .	no.s	2.00	245.21	490.42
				-	
72	Supply and fixing of 9W LED Lamp with input voltage 90 to 300V, Colour temperature 3000k - 6500k, Beam angle 170 - 220 degrees, B22 base, 490 Lumens. Makes: Phillips / OSRAM / GE / Crompton / VIN / Bajaj / Havells / Pharox / Halonix / Green lites.	Nos	153.00	197.75	30,255.75
				-	
73	Supply and fixing of Decorative wall bracket lights of make Klite Model No Roman Round Midi or its equivalent make in Kessel without LED bulb	Nos	36.00	1,356.00	48,816.00

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMMERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
74	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 4.50 Mtrs height Pole having dimensions Bottom 130 mm,. Top 70mm with 3mm thick, base plate 220 x 220 x 12mm and 4 Nos of M20 x 700 long 'J' bolts along with template.(17-18-ELEC-7.2.1)	Nos	23.00	6,667.00	153,341.00
				-	
75	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet and MCB's as per IS specification suitable to withstand the wind speed of 180 KMPH for 7.50 Mtrs height Pole having dimensions Bottom 130 mm,. Top 70mm with 3mm thick, base plate 220 x 220 x 12mm and 4 Nos of M20 x 700 long 'J' bolts along with template.(17-18-ELEC-7.2.1)	Nos	2.00	11,116.94	22,233.88
				-	
76	Foundation and erection charges with special T&P, for Octagonal / Conical pole duly erecting on base plate duly providing 4 Nos foundation bolts with nuts with providing of 0.45Mtrx0.45Mtrsx1.20 Mtr size M20 cc work vibrated concreting mixing with necessary steel (10kgs) reinforcement as directed by the field engineers during execution including all labour charges and cost and conveyance of materials etc. complete.(Elec 7.9.1)	Nos	25.00	5,085.00	127,125.00
				-	
77	Fabrication, Transportation and supply of 1.50 Mtr Length Single Arm standard Bracket made with MS galvanized 50mm dia Pipe.(17-18-ELEC-7.3.3)	Nos	23.00	1,611.38	37,061.74
				-	
78	Fabrication, Transportation and supply of 1.50 Mtr length Double Arm standard Bracket made with MS galvanized 50mm dia Pipe.(17-18-ELEC-7.3.3)	Nos	2.00	2,712.00	5,424.00
				-	

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
79	Supply and fixing of 45W LED Street light Body made of high grade pressure die – cast Aluminium alloy with corrosion resistant powder coat, having protective toughened glass cover, Less Glare, IP 66 (Silicon gasket ensures Optical & Electrical compartments are IP 66) protected, wide operating voltage range, P.F > 0.90, System having efficacy >100 lumens/watt, with Ingress protection IP66, Driver surge protection more than 4KV, THD<15%, CCT: 3000- 6500K as desired by the department and as per IS, CRI>80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, etc complete with 5 years warranty.(17-18 3.11.1) LUMINAIRE MAKE : COSMO / VRILISO / KASHYAP BLU / PRO-LITE / SCINTILLA / GOLDMEDAL / ECOVA / TAIYOLUX / LINK WELL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	Nos	27.00	5,036.41	135,983.07
				-	
80	Supply and fixing of 3 core 1.5sqmm PVC Insulated and FRLS Round Sheathed Multi Core Bright Annealed Bare Copper Conductor Heavy Duty Industrial Cables for Voltage Grade upto 1100 Volts as per IS: 694:1990 including all transportation charges etc completeMakes : Finolex / RR kabel / Havells / Polycab / RPG .(17-18-ELEC-1.5.8 (m) Rs 56.00 + LC Rs3.00=Rs59)	Mtrs	200.00	66.67	13,334.00
				-	
81	Supply and Transportation of 16 Sqmm 4 Core XLPE insulated, 1100V grade armoured alluminium cable as per specification confirming to IS:7098 (Part - I) of makes Torrent/universal/Polycab / Havells (17-18-ELEC-4.1.6)	Mtrs	5000.00	162.72	813,600.00
				-	
82	Supply and Transportation of Outer dia 50mm and Inner dia 38mm double walled corrugated HDPE duct including bends,elbows,t joints and couplers ,made as per specification BSEN - 500 86/IS 14930 Part-II. Makes:DURA LINE (Dura Guard) or its equivalent make (17-18-ELEC-4.8.1).	Mtrs	4500.00	98.31	442,395.00
				-	
83	Earth work excavation of Trench in hard ground soil upto a depth of 0.9 mts and laying of HDPE Duct/ PVC /GI Pipe & drawing U.G cables up to 50 sqmm covering the cable and back filling of Trench including cost and conveyance of materials and labour charges etc., complete.,as directed at site (Data)	Mtrs	3500.00	87.01	304,535.00
				-	
84	Labour charges with all incidental charges , Special T&P.. etc towards Cutting open B.T/ C.C. Road surface for laying of existing Pipe and drawing UG cable including redoing with C.C surface to the satisfaction of the Engineers in charge. (Rs 50 per Mtr for Labour + Rs 30 Per Mtr for Special T&P + Rs 80 per Mtr for CC)	Mtrs	1500.00	180.80	271,200.00
				-	

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMMERA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
85	Supply and fixing of suitable out door feeder pillar box of size 3' x 2' x 1' made having sloping canopy projecting out on all sides for rain protection ,with 14 SWG CRCA sheet with double door arrangement, making powder coating after processing of 7 Tank process, lock and key, hinges, rubber gasket, danger board,suitable angle iron stand for mounting the feeder pillar with cement concrete, including Supply and fixing of Legrand / Schnieder make 40A FP isolator as incomer,9 Nos 6-32A SP MCB as out goings, indication lamps, din channel, 6 Sqmm 3 core copper cable for invidual light controlbus bar links, connectors, gland plates and provision for 3 phase energy meter etc., complete for finished item of work and suitable wiring provision for connecting the nature switch with following.(17-18-ELEC-7.5.1 b.(i)+Rs.600/- for 3 no.s spare MCBs)	Nos	3.00	18,822.41	56,467.23
				-	
86	Supply and fixing of Automatic Street Light Control System with Optical Sensor, Low volatage/ High voltage trip and reset, operatingvoltage 150 - 280V AC per Phase, 50 HZwith suitable SMC enclosure of IP 54protection, MCBs and contactor suitable to control the load of 5 KW of Three phaseload with necessary clampingarrangements.(17-18-ELEC-3.5.5)Makes : Swadeep Nature Switch (Rs.12800+LCRs.200)	Nos	1.00	14,690.00	14,690.00
				-	
87	Providing independent G.I Earthling by excavating a pit to a depth of 2.25Mt in all soils, as per size specified in the Data, using 40mm dia 'B' class GI pipe of 2.5 Mtrs length duly providing staggered 16 Nos holes , GI strip with holes welded at the top (for earth wire connection),and accessories with 18" dia 2" thick hume pipe ring with 2" thick CC cover with handle including filling with 20Kg Salt and 40Kg Charcoal or 40Kg bentonite powder in layers, GI bolts, nuts washers and all labour charges etc., complete.(Mod-Data No.25.1.1)	Nos	3.00	3,959.52	11,878.56
				-	
88	Supply and Run of 25mm x 6mm G.I Strip including cost of all accessories including connections and labour charges etc., complete. (Data No. 27.1.5)	Mtrs	30.00	102.83	3,084.90
				-	
89	Supply and fixing of crimping type aluminium lugs confirming to I.S specifications for cable upto 16 Sq.mm including nuts and bolts with connections. (17-18-ELEC-4.4.13)	Nos	210.00	22.60	4,746.00
				-	
90	Supply and Fixing of single compression brass cable glands for 4 core XLPE armoured cable up to 16.0 Sq.mm with brass washers complete. (17-18-ELEC-4.3.5)	Nos	3.00	135.60	406.80
				-	

**INTEGRATED DEVELOPMENT OF CULTURAL AND HERITAGE TOURISM CIRCUIT
IN BAMBERRA OF JANGAON DISTRICT.**

Bill of Quantity

Sl. No.	Particulars	Unit	Quantity	Rate	Amount (Rs.)
91	Supply and fixing of 12W White LED Hanging Lantern Light , housing made with alluminium JB36 of make Goldwin LED including all Accessories and Labour charges etc., complete	Nos	24.00	1,243.00	29,832.00
				-	
92	Supply and fixing of 12 W Cree LED Spike light UP light , housing made with alluminium, Water proof driver IP65 of make Goldwin LED or its equivalent including all Accessories and Labour charges etc., complete	Nos	22.00	1,695.00	37,290.00
				-	
93	Supply and fixing of LED Flood light Luminaire made of pressure die cast aluminum housing with powder coated, having toughened glass cover,IP 66 (Silicon gasket ensures Optical & Electrical compartments are IP 66)protected, wide operating voltage range , P.F > 0.90, System having efficacy >80 lumens/watt, with Ingress protection IP66, Driver surge protection more than 4KV, THD<15%, CCT: 3000- 6500K as desired by the department and as per IS, CRI>80, Inbuilt Electrical protections like Over voltage, short circuit, Over load, Open Circuit, Miswiring, etc complete with 5 years warranty.Elec 3.11.6 LUMINAIRE MAKE : COSMO / VRILISO / KASHYAP BLU / PRO-LITE / SCINTILLA / GOLDMEDAL / ECOVA / TAIYOLUX / LINK WELL. LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	Nos	10.00	14,934.08	149,340.80
				-	
94	Supply and fixing of 12W LED Pyramid Rd top Bollard 900mm with Die cast Alluminium body, water proof driver IP 65 of make HPL Pathlite Model No HPLLEDBPR12W including all Accessories and Labour charges etc., complete	Nos	297.00	3,966.30	1,177,991.10
95	TOTAL				51,631,606.66
	<i>Say</i>				5.16
				Five Crore Sixteen Lakhs	
	NOTE: THE RATES QUOUTED SHOULD BE INCLUSIVE OF ALL TAXES APPLICABLE INCLUDING SERVICE TAX.				