


## TECHNICAL REPORT & SPECIFICATION

- 1 Name of work : RENOVATION & UPGRADATION WORK OF ITDP OFFICE  
कार्य का नाम : कार्यालय आई० टी० डी० पी० अम्बिकापुर भवन का जीर्णोद्धार एवं उन्नयन कार्य  
Location : कार्यालय आई० टी० डी० पी०, अम्बिकापुर (सरगुजा)  
3 District : Surguja, (C.G.)  
4 Estimated Cost : ₹ 19.98 Lakh  
5 Scheme :  
6 Authority : For Administrative Sanction Collector Surguja, (C.G.)  
For Technical Sanction S.D.O. Tribal Development Department Surguja, (C.G.)  
7 Specifications : Specifications as per guide line Issued by Public Works Department  
8 Provision of work : As Per Estimate

- 9 Rates : The Estimate has been prepared as per S.O.R. of Public Works Department Building of Raipur  
w.e. from 01.01.2015 and amendments.

- 10 Remark(if any) :



S.D.O. Tribal Development Department Surguja,  
(C.G.)

# GENERAL ABSTRACT

कार्यालय आई० टी० डी० पी०, अम्बिकापुर (सर्गुजा)  
Surguja, (C.G.)

S. No.	Sub Head	Total Cost
1	(PART - A DISMANTLING OR DEMOLITION)	₹ 10,875.00
2	(PART - B WORK TO BE DONE)	₹ 10,36,170.00
3	(PART - C CONSTRUCTION OF TOILET BLOCK & SEPTIC TANK)	₹ 4,17,938.00
4	FOR STAIR CASE	₹ 1,25,397.00
5	ELECTRIFICATION WORK	₹ 4,08,059.00
SUB TOTAL AMOUNT		₹ 19,98,439.00
GRAND TOTAL AMOUNT ₹		₹ 19,98,439.00
SAY ₹ IN LAC		₹ 19.98



S.D.O. Tribal Development Department  
Surguja, (C.G.)

सिखिल कार्य हेतु  
तकनीकी अनुमोदन राशि रु. 15.90 लाख  
(रु. पंद्रह लाख नब्बे हजार रुपये मात्र)

  
Executive Engineer  
P.W.D. (B&R) Division Ambikapur



T.S. No 2330  
दिनांक 30.04.24

# MAILED ESTIMATE FOR RENOVATION & UPGRADATION WORK OF ITDP OFFICE

कार्यालय आई० टी० डी० पी०, अम्बिकापुर (सर्गुजा)

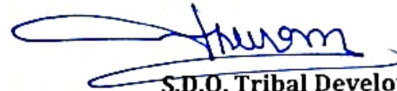
Surguja, (C.G.)

## (PART - A DISMANTLING OR DEMOLITION)

ITEM NO.	SOR NO.	PARTICULAR	NO.	LENGTH	BREADTH/ WIDTH	HEIGHT/ DEPTH	QUANTITY	UNIT	RATE	AMOUNT
1	16.26	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.								
		Door	1				1.00	✓	✓	
						TOTAL	1.00	Each	₹ 100.00	₹ 100.00
2	16.27	Dismantling windows chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.								
		Window	12				12.00	✓	✓	
						TOTAL	12.00	Each	₹ 66.50	₹ 798.00
3	16.43	Demolishing cement concrete including disposal of material within 50 metre lead.								
	16.43.1	1:4:8 or leaner mix								
		UNDER FLOOR								
		Hall 1	1	6.40	4.50	0.12	3.46			
		Hall 2	1	4.60	6.10	0.12	3.37			
		Office 1	1	4.55	5.30	0.12	2.89			
		Store	1	1.40	2.80	0.12	0.47			
		Verandah	1	3.00	6.80	0.12	2.45			
			1	1.20	5.20	0.12	0.75			
			1	1.20	2.20	0.12	0.32			
						TOTAL	13.70	✓	✓	
								CuM.	₹ 329.00	₹ 4,508.00
4	16.3	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead.								
	16.3.3	In cement mortar.								
		WALL								
		Window	2	1.20	0.35	1.20	1.01			
			2	2.20	0.35	3.00	4.62			
						TOTAL	5.63	✓	✓	
								CuM.	₹ 263.00	₹ 1,480.00
3	14.44	Removing white or colour wash by scrapping, sand papering and preparing the surface smooth including necessary repair to scratches etc. complete.								
		Inside Wall Hall 1	1	21.80		3.35	73.03			
		Hall 2	1	21.40		3.35	71.69			
		Office 1	1	19.70		3.35	66.00			
		Office 2	1	13.80		3.35	46.23			
		Office 3	1	21.20		3.35	71.02			
		Store	1	8.40		3.35	28.14			
		Toilet 1	1	6.80		2.00	13.60			
		Lobby	1	18.40		3.35	61.64			
			1	11.60		3.35	38.86			
		Toilet 2	1	14.00		2.00	28.00			
		External Wall	1	50.70		4.60	233.22			
		Ceiling Hall 1	1	6.40	4.50		28.80			
		Hall 2	1	4.60	6.10		28.06			
		Office 1	1	4.60	5.30		24.38			



NO.	PARTICULAR	NO.	LENGTH	BREADTH/ WIDTH	HEIGHT/ DEPTH	QUANTITY	UNIT	RATE	AMOUNT
	Office 2	1	4.60	2.20		10.12			
	Office 3	1	4.50	6.10		27.45			
	Store	1	1.40	2.80		3.92			
	Toilet 1	1	1.40	2.00		2.80			
	Lobby	1	3.00	6.80		20.40			
		1	1.20	5.20		6.24			
	Toilet 2	1	4.20	2.80		11.76			
	FF	1	24.40		3.35	81.74			
	Deduction C.G.	-1	2.40		2.10	-5.04			
	D	-8	1.20		2.10	-20.16			
	D 1	-2	0.75		2.10	-3.15			
	W 1	-5	1.80		1.20	-10.80			
	W 2	-7	1.00		1.20	-8.40			
	V 1	-5	0.60		0.60	-1.80			
					TOTAL	927.75	SqM.	₹ 4.30	₹ 3,989.00
SUB TOTAL AMOUNT ₹									₹ 10,875.00



S.D.O. Tribal Development Department  
Surguja, (C.G.)



# TAILED ESTIMATE FOR RENOVATION & UPGRADATION WORK OF ITDP OFFICE

कार्यालय आई० टी० डी० पी०, अम्बिकापुर (सरगुजा)

Surguja, (C.G.)

## (PART - B WORK TO BE DONE)


ITEM NO.	SOR NO.	PARTICULAR	NO.	LENGTH	BREADTH/ WIDTH	HEIGHT/ DEPTH	QUANTITY	UNIT	RATE	AMOUNT
1	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		<b>UNDER FLOOR</b>								
		Hall 1	1	6.40	4.50	0.10	2.88			
		Hall 2	1	4.60	6.10	0.10	2.81			
		Office 1	1	4.55	5.30	0.10	2.41			
		Store	1	1.40	2.80	0.10	0.39			
		Verandah	1	3.00	6.80	0.10	2.04			
			1	1.20	5.20	0.10	0.62			
			1	1.20	2.20	0.10	0.26			
						<b>TOTAL</b>	<b>11.42</b>	<b>CuM.</b>	<b>₹ 2,970.00</b>	<b>₹ 33,910.00</b>
2	17.1	Repairs to plaster in patches of area 2.5 sq. metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls with cement mortar 1:4 (1 cement : 4 fine sand) complete including disposal of rubbish to the dumping ground within 50metres lead :								
	17.1.1	Thickness upto 15mm								
		Take QTY. Of Item No. 01/14.44 Part - A	1	927.75	25.00%		231.94			
						<b>TOTAL</b>	<b>231.94</b>	<b>SqM.</b>	<b>₹ 132.00</b>	<b>₹ 30,616.00</b>
3	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Wall	4	1.20	0.35	1.50	2.52			
						<b>TOTAL</b>	<b>2.52</b>	<b>CuM.</b>	<b>₹ 3,384.00</b>	<b>₹ 8,528.00</b>
4	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		Window 1 @ 25.00 Kg./SqM.	5	1.80	1.20	25.00	270.00			
		Window 2 @ 25.00 Kg./SqM.	7	1.00	1.20	25.00	210.00			
		Ventilators @ 25.00 Kg./SqM.	5	0.60	0.60	25.00	45.00			
						<b>TOTAL</b>	<b>525.00</b>	<b>Kg.</b>	<b>₹ 67.50</b>	<b>₹ 35,438.00</b>

NO.	PARTICULAR	NO.	LENGTH	BREADTH/ WIDTH	HEIGHT/ DEPTH	QUANTITY	UNIT	RATE	AMOUNT
16	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.								
9.16.2	Angle-iron frames								
	Door @ 3.00 Kg./Metre	8	6.60		3.00	158.40			
	Window 1 @ 3.00 Kg./Metre	5	6.00		3.00	90.00			
	Window 2 @ 3.00 Kg./Metre	7	4.40		3.00	92.40			
	Ventilators @ 3.00 Kg./Metre	5	2.40		3.00	36.00			
					<b>TOTAL</b>	<b>376.80</b>	<b>Kg.</b>	<b>₹ 73.50</b>	<b>₹ 27,695.00</b>
6	8.12 Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.								
	8.12.2 35 mm. thick (single leaf)								
		D 1	8	1.20	2.10	20.16			
					<b>TOTAL</b>	<b>20.16</b>	<b>SqM.</b>	<b>₹ 2,005.00</b>	<b>₹ 40,421.00</b>
7	8.77 Providing and fixing antique/ SS finished brass butt hinges with antique/ SS polished MS screw complete:								
	8.77.1 125x85x5.50mm (Heavy Type)	8	6.00			<b>TOTAL</b> 48.00	<b>Each</b>	<b>₹ 256.00</b>	<b>₹ 12,288.00</b>
8	8.79 Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete:								
	8.79.1 300x16mm	8	1.00			<b>TOTAL</b> 8.00	<b>Each</b>	<b>₹ 496.00</b>	<b>₹ 3,968.00</b>
9	8.80 Providing and fixing antique/ SS finished brass door latch with antique/ SS polished MS screw complete:								
	8.80.1 300 x16x5 mm	8	1.00			<b>TOTAL</b> 8.00	<b>Each</b>	<b>₹ 424.00</b>	<b>₹ 3,392.00</b>
10	8.81 Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete:								
	8.81.1 250 x10 mm	8	1.00			<b>TOTAL</b> 8.00	<b>Each</b>	<b>₹ 297.00</b>	<b>₹ 2,376.00</b>
11	8.84 Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete:								
	8.84.1 125 mm	8	2.00			<b>TOTAL</b> 16.00	<b>Each</b>	<b>₹ 58.50</b>	<b>₹ 936.00</b>
12	9.47 Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								
	9.47.1 For fixed portion								



NO.	PARTICULAR	NO.	LENGTH	BREADTH/ WIDTH	HEIGHT/ DEPTH	QUANTITY	UNIT	RATE	AMOUNT
	Weight Aluminium @ 5.00 Kg./SqM.								
	W 1	5	1.80	1.20	5.00	54.00			
	W 2	7	1.00	1.20	5.00	42.00			
	V	5	0.60	0.60	5.00	9.00			
	Shelves	5	1.70	2.20	5.00	93.50			
	<b>TOTAL</b>					<b>198.50</b>	<b>Kg.</b>	<b>₹ 331.00</b>	<b>₹ 65,704.00</b>
9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).								
	Weight Of Aluminium @ 5.00 Kg./SqM.								
	W 1	5	1.80	1.20	5.00	54.00			
	W 2	7	1.00	1.20	5.00	42.00			
	V	5	0.60	0.60	5.00	9.00			
	Shelves	5	1.70	2.20	5.00	93.50			
	<b>TOTAL</b>					<b>198.50</b>	<b>Kg.</b>	<b>₹ 338.00</b>	<b>₹ 67,093.00</b>
13	9.49 Extra for polyester powder coated (minimum 50 micron) aluminium sections instead of anodized.								
	QTY. OF ITEM No. 9.47.1	1	198.50			198.50			
	QTY. OF ITEM No. 9.47.2	1	198.50			198.50			
	<b>TOTAL</b>					<b>397.00</b>	<b>Kg.</b>	<b>₹ 34.50</b>	<b>₹ 13,697.00</b>
14	9.51 Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	9.51.2 With float glass panes of 5 mm thickness								
	W 1	5	1.80		1.20	10.80			
	W 2	7	1.00		1.20	8.40			
	V	5	0.60		0.60	1.80			
	Shelves	5	1.70		2.20	18.70			
	<b>TOTAL</b>					<b>39.70</b>	<b>SqM.</b>	<b>₹ 708.00</b>	<b>₹ 28,108.00</b>
15	12.78 Providing and laying Matt/Glazed finish HOMOGENEOUS ACROSS FULL BODY VITRIFIED floor tiles (heavy duty) with water absorption less than 0.05% and confirming to IS : 15622-2017 of 1st quality of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.								
	12.78.1 Size 600x600mm thickness 9 to 10mm								
	<b>UNDER FLOOR</b>								
	Hall 1	1	6.40	4.50		28.80			
	Hall 2	1	4.60	6.10		28.06			
	Office 1	1	4.55	5.30		24.12			
	Store	1	1.40	2.80		3.92			
	Verandah	1	3.00	6.80		20.40			
		1	1.20	5.20		6.24			
		1	1.20	2.20		2.64			
	Sill	1	2.40	0.40		0.96			
		8	1.20	0.40		3.84			
	FF	1	7.60	4.60		34.96			
		1	12.20	9.80		119.56			
		1	5.00	4.90		24.50			
	<b>SKIRTING</b>								

0.	PARTICULAR	NO.	LENGTH	BREADTH/ WIDTH	HEIGHT/ DEPTH	QUANTITY	UNIT	RATE	AMOUNT
	Hall 1	1	21.80		0.10	2.18			
	Hall 2	1	21.40		0.10	2.14			
	Office 1	1	19.70		0.10	1.97			
	Store	1	8.40		0.10	0.84			
	Verandah	1	19.60		0.10	1.96			
		1	12.80		0.10	1.28			
		1	6.80		0.10	0.68			
	FF	1	24.40		0.10	2.44			
		1	44.00		0.10	4.40			
		1	20.00		0.10	2.00			
					<b>TOTAL</b>	<b>317.89</b>	<b>SqM.</b>	<b>₹ 1,331.00</b>	<b>₹ 4,23,105.00</b>
16	14.13 Applying one coat of cement primer on wall surface (applied @ 0.80 ltrs/10 sqm) complete. 14.12	1	927.75			927.75			
	Take QTY. Of Item No. 07/11.2				<b>TOTAL</b>	<b>927.75</b>	<b>SqM.</b>	<b>₹ 23.00</b>	<b>₹ 21,338.00</b>
17	14.13 Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
	Take QTY. Of Item No. 10/14.12	1	927.75			927.75			
					<b>TOTAL</b>	<b>927.75</b>	<b>SqM.</b>	<b>₹ 94.50</b>	<b>₹ 87,672.00</b>
18	14.17 Painting exterior surface with TEXTURED exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.17.1 On new work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm								
	Take QTY. Of Item No. 10/14.12	1	927.75			927.75			
					<b>TOTAL</b>	<b>927.75</b>	<b>SqM.</b>	<b>₹ 140.00</b>	<b>₹ 1,29,885.00</b>
<b>SUB TOTAL AMOUNT ₹</b>									<b>₹ 10,36,170.00</b>

  
**S.D.O. Tribal Development Department**  
**Surguja, (C.G.)**



# TAILED ESTIMATE FOR RENOVATION & UPGRADATION WORK OF ITDP OFFICE

कार्यालय आई० टी० डी० पी०, अम्बिकापुर (सरगुजा)

## (PART - C CONSTRUCTION OF TOILET BLOCK & SEPTIC TANK)

S. No.	ITEM No.	DESCRIPTION	MEASUREMENTS				QUANTITY	UNIT	RATE	AMOUNT
			No.	L	Wt./Bt.	Dt./Ht.				
1	2	3	4	5	6	7	8	9	10	11
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).	1	7.00	3.00		21.00			
						TOTAL	21.00	SqM.	₹ 7.20	₹ 151.00
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils.								
		(LW) TOILET	2	4.90	0.70	0.70	4.80			
		(SW)	4	1.30	0.70	0.70	2.55			
		SEPTIC TANK 1	1	4.00	2.50	1.80	18.00			
		SEPTIC TANK 2	1	3.50	2.00	1.80	12.60			
						TOTAL	37.95	CuM.	₹ 185.00	₹ 7,021.00
3	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		TOILET	2	1.20	1.80	0.70	3.02			
		FRONT	1	3.00	1.20	0.50	1.80			
						TOTAL	4.82	CuM.	₹ 371.00	₹ 1,788.00
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		(LW) TOILET	2	4.90	0.70	0.10	0.69			
		(SW)	4	1.30	0.70	0.10	0.36			
		SEPTIC TANK 1	1	4.00	2.50	0.15	1.50			
		SEPTIC TANK 2	1	3.50	2.00	0.15	1.05			
		FLOOR	2	1.20	1.80	0.15	0.65			
		FRONT	1	3.00	1.20	0.10	0.36			
						TOTAL	4.61	CuM.	₹ 2,970.00	₹ 13,692.00
5	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. (Note :Excess/ less cement used as per design mix is payable/ recoverable separately)								
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		LINTEL BEAM LW	2	4.40	0.20	0.20	0.35			
			4	1.80	0.20	0.20	0.29			
		ST 1 SLAB	1	3.60	2.00	0.10	0.72			
		ST 2 SLAB	1	3.00	1.60	0.10	0.48			
		SLAB	1	4.80	2.80	0.12	1.61			
						TOTAL	3.45	CuM.	₹ 4,163.00	₹ 14,362.00

M	DESCRIPTION	MEASUREMENTS				QUANTITY	UNIT	RATE	AMOUNT
		No.	L	Wt./Bt.	Dt./Ht.				
	3	4	5	6	7	8	9	10	11
3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
3.12.2	Thermo-Mechanically treated bars FE 500D								
	TAKE 120.00KG./CuM. OF RCC work	1	3.45		120.00	414.00			
					TOTAL	414.00	Kg.	₹ 54.50	₹ 22,563.00
7	2.1 Providing and fixing form work including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at								
	2.1.7 Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in								
	ST 1 SLAB	1	3.60	2.00	~	7.20			
	ST 2 SLAB	1	3.00	1.60		4.80			
					TOTAL	12.00	SqM.	₹ 235.00	₹ 2,820.00
	2.1.7 Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in								
	LINTEL BEAM LW	2	4.40	2	0.20	3.52			
		4	1.80	2	0.20	2.88			
	SLAB	1	4.80	2.80		13.44			
					TOTAL	19.84	SqM.	₹ 235.00	₹ 4,662.00
8	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	(LW) TOILET 1st FOOTING	2	4.70	0.50	0.20	0.94			
	(SW)	4	1.50	0.50	0.20	0.60			
	(LW) TOILET 2nd FOOTING	2	4.60	0.40	0.30	1.10			
	(SW)	4	1.60	0.40	0.30	0.77			
	TOILET 3rd FOOTING	2	4.50	0.30	0.30	0.81			
	(SW)	4	1.70	0.30	0.30	0.61			
	SEPTIC TANK 1	2	3.60	0.20	1.80	2.59			
		2	2.00	0.20	1.80	1.44			
	SEPTIC TANK 2	2	3.00	0.20	1.80	2.16			
		2	1.60	0.20	1.80	1.15			
					TOTAL	12.17	CuM.	₹ 3,263.00	₹ 39,711.00
9	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4 Cement Mortar 1:6 (1 cement : 6 coarse sand)								
	7.6 Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
	(LW) TOILET	2	4.40	0.20	2.60	4.58			
	(SW) TOILET	4	1.80	0.20	2.60	3.74			
	FF WALL	1	37.70	0.20	2.50	18.85			
	DEDUCT								
	DOOR	-3	0.75	0.20	2.10	-0.95			
	VENTILATORS	-3	0.60	0.20	0.30	-0.11			
					TOTAL	26.11	CuM.	₹ 3,384.00	₹ 88,356.00



1	DESCRIPTION	MEASUREMENTS				QUANTITY	UNIT	RATE	AMOUNT
		No.	L	Wt./Bt.	Dt./Ht.				
	3	4	5	6	7	8	9	10	11
9.13	Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.								
	40x40x5mm	3	5.80		3.00	52.20			
	30x30x3mm Hold Fast	3	0.30	6	2.60	14.04			
	Flat Iron 30x3	3	0.95	3	0.70	5.99			
	MS Sheet 1.80mm thick	3	0.78	2.08	15.70	76.42			
	Round Bar 10mm dia	3	0.45	2	0.90	2.43			
	ISA 20x20x3	3	6.12		0.90	16.52			
	Handle 3mm sheet	3	0.30	0.20	23.55	4.24			
	Shaft 8mm	3	0.55	2	0.62	2.05			
					<b>TOTAL</b>	<b>173.89</b>	Kg.	₹ 75.00	₹ 13,042.00
11	11.2 Providing and making 12mm thick cement plaster of mix:								
	11.2.1 In cement Mortar 1:3 (1 cement : 3 fine sand)								
	SEPTIC TANK 1	2	3.60		1.80	12.96			
		2	2.00		1.80	7.20			
	SEPTIC TANK 2	2	3.00		1.80	10.80			
		2	1.60		1.80	5.76			
					<b>TOTAL</b>	<b>36.72</b>	SqM.	₹ 115.00	₹ 4,223.00
	11.2.4 In cement Mortar 1:6 (1 cement : 6 fine sand)								
	(LW) TOILET	2	4.40		2.90	25.52			
	(SW)	2	2.20		2.90	12.76			
					<b>TOTAL</b>	<b>38.28</b>	SqM.	₹ 91.50	₹ 3,503.00
12	1009 Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	11.3.4 In cement Mortar 1:6 (1 cement : 6 fine sand)								
	INSIDE WALL	6	1.20		2.70	19.44			
		6	1.80		2.70	29.16			
	FF WALL	2	37.70		2.50	188.50			
	<u>DEDUCT</u>								
	D	-3	0.75		2.10	-4.73			
	VENTILATORS	-3	0.60		0.30	-0.54			
					<b>TOTAL</b>	<b>231.83</b>	SqM.	₹ 107.00	₹ 24,806.00
13	11.5 Neat Cement punning.								
	SAME QTY. ITEM No. 11/11.2.1	1	36.72			36.72			
					<b>TOTAL</b>	<b>36.72</b>	SqM.	₹ 33.00	₹ 1,212.00
14	12.74 Providing and fixing rectified glazed ceramic Floor tiles of 1st quality confirming to IS : 15622-2017 of approved make, in all colours, shades over 20mm thick bed of Cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.								
	12.74.1 Size 300x300mm thickness 7 to 8mm								
	FLOOR	3	1.20	1.80		6.48			
		3	0.75	0.25		0.56			
		1	4.20	3.00		12.60			
					<b>TOTAL</b>	<b>19.64</b>	SqM.	₹ 779.00	₹ 15,300.00



M O.	DESCRIPTION	MEASUREMENTS				QUANTITY	UNIT	RATE	AMOUNT
		No.	L	Wt./Bt.	Dt./Ht.				
	3	4	5	6	7	8	9	10	11
12.75	Providing and fixing rectified glazed ceramic Wall/Dado tiles of 1st quality confirming to IS : 15622-2017 of approved make, in all colours, shades on wall and dados over 12mm thick bed of Cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.								
12.75.1	Size 300x450mm thickness 7 to 8mm								
	WALL	3	6.00		2.10	37.80			
		1	4.40		2.10	9.24			
					TOTAL	47.04	SqM.	₹ 710.00	₹ 33,398.00
16	14.13 Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
	CEILING	3	1.20	1.80		6.48			
	PROJECTION	1	4.80	0.60		2.88			
	FF ROOM	2	8.00		3.00	48.00			
		2	5.00		3.00	30.00			
	12mm PLASTER QTY.	1	38.28			38.28			
	15mm PLASTER QTY.	1	231.83			231.83			
	DEDUCT WALL TILES QTY.	-1	47.04			-47.04			
					TOTAL	310.43	SqM.	₹ 94.50	₹ 29,336.00
17	14.15 Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.15.1 On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)								
	SAME QTY. ITEM No.	1	310.43			310.43			
					TOTAL	310.43	SqM.	₹ 56.00	₹ 17,384.00
18	14.22 Painting on new work (two or more coats) to give an even shade with:								
	14.22.1 Satin synthetic enamel paint								
	DOOR	3	0.75	2.20	2.10	10.40			
	VENTILATORS	3	0.60	1.20	0.30	0.65			
					TOTAL	11.05	SqM.	₹ 55.00	₹ 608.00
SUB TOTAL AMOUNT									₹ 3,37,938.00
FOR SANITARY FITTING & WATER SUPPLY								L.S.	₹ 80,000.00
GRAND TOTAL									₹ 4,17,938.00




S.D.O. Tribal Development Department Surguja  
(C.G.)



# LINE PLAN FOR CONSTRUCTION OF TOILET & BATHROOM

कार्यालय आई० टी० डी० पी०, अम्बिकापुर (सरगुजा)

TOILET 1.20X1.80	TOILET 1.20X1.80	TOILET 1.20X1.80
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S.D.O. Tribal Development  
Department Surguja, (C.G.)

# DETAILED ESTIMATE FOR CONSTRUCTION OF STAIR CASE

AS PER SOR PWD (BUILDING) w.e.f. 01-01-2015 and AMMENDMENTS

## FOR STAIR CASE

कार्यालय आई० टी० डी० पी०, अम्बिकापुर (सरगुजा)

SOR NO.	PARTICULAR	NO.	LENGTH	BREADTH/ WIDTH	HEIGHT/ DEPTH	QUANTITY	UNIT	RATE	AMOUNT
2	3	4	5	6	7	8	9	10	11
1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
1.1.1	In all types of soils.								
	F 1 C 1	4	1.80	1.80	1.50	19.44			
	TOTAL					19.44	CuM.	₹ 185.00	₹ 3,596.00
2	1.17 Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
	Take 70.00% QTY. Of Total Excavation QTY.	1	19.44	70.00%		13.61			
	TOTAL					13.61	CuM.	₹ 65.00	₹ 885.00
3	2.1 Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	2.1.1 Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	COLUMN FOOTING F 1 C 1	4	6.40		0.30	7.68			
	COLUMN UPTO NGL C 1	4	1.00		1.15	4.60			
	GROUND/PLINTH BEAM HORIZONTAL								
		2	4.50	0.60		5.40			
		2	1.60	0.60		1.92			
	TOTAL					19.60	SqM.	₹ 139.00	₹ 2,724.00
	2.1.5 Columns, Pillars, Piers and likes- rectangular or square in shape								
	C 1	4	1.00		2.40	9.60			
	TOTAL					9.60	SqM.	₹ 297.00	₹ 2,851.00
	2.1.7 Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
	Under Floor WING - A & B LHS/RHS								
		1	4.50	1.60		7.20			
	TOTAL					7.20	SqM.	₹ 235.00	₹ 1,692.00
	2.1.8 Beams, lintels, cantilevers & walls								
	LINTEL BEAM HORIZONTAL								
		2	4.50	0.30		2.70			
		2	1.60	0.30		0.96			
	TOTAL					3.66	SqM.	₹ 202.00	₹ 739.00
4	3.1 Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
	F 1 C 1	4	1.80	1.80	0.15	1.94			
	BELOW PLINTH/GROUND BEAM	1	12.20	0.30	0.10	0.37			
	TOTAL					2.31	CuM.	₹ 2,970.00	₹ 6,861.00



NO.	PARTICULAR	NO.	LENGTH	BREADTH/ WIDTH	HEIGHT/ DEPTH	QUANTITY	UNIT	RATE	AMOUNT	
3		4	5	6	7	8	9	10	11	
3.2.1	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).									
	<b>RCC IN PLINTH</b>									
	COLUMN FOOTING F 1 C 1	4	1.60	1.60	0.20	2.05				
	TRAPEZOIDAL F 1, A1 =(1.60x1.60 = 2.56), A2 = (0.45X0.35 = 0.16), Am = (1.60+0.45/2 x 1.60+0.35/2 = 0.10), 1/6(A1+A2+4Am)	4	0.52		0.45	0.94				
	COLUMN UPTO NGL C 1	4	0.30	0.20	1.15	0.28				
	COLUMN ABOVE NGL UPTO PLINTH BEAM TOP C 1	4	0.30	0.20	0.40	0.10				
	<b>GROUND/PLINTH BEAM HORIZONTAL</b>									
	GB 1	2	4.50	0.20	0.30	0.54				
		2	1.60	0.20	0.30	0.19				
	<b>RCC ABOVE PLINTH</b>									
	COLUMN ABOVE PB BELOW SLAB C 1	4	0.30	0.20	2.40	0.58				
	<b>LINTEL BEAM HORIZONTAL</b>									
		2	4.50	0.20	0.20	0.36				
		2	1.60	0.20	0.20	0.13				
	LANDING	1	4.50	1.60	0.15	1.08				
						<b>TOTAL</b>	<b>6.25</b>	<b>CuM.</b>	<b>₹ 4,163.00</b>	<b>₹ 26,019.00</b>
6	3.12 Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:									
	3.12.1 Thermo-Mechanically treated bars FE 415									
	TAKE 125.00 Kg./CuM. OF RCC WORK	1	6.25	125.00		781.25				
						<b>TOTAL</b>	<b>781.25</b>	<b>Kg.</b>	<b>₹ 54.50</b>	<b>₹ 42,578.00</b>
7	7.5 Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:									
	7.5.3 Cement Mortar 1:5 (1 cement : 5 coarse sand)									
	<b>BELOW GROUND/PLINTH BEAM HORIZONTAL</b>									
	GB 1 ROOMS	2	4.50	0.20	0.30	0.54				
		2	1.60	0.20	0.30	0.19				
						<b>TOTAL</b>	<b>0.73</b>	<b>CuM.</b>	<b>₹ 3,350.00</b>	<b>₹ 2,452.00</b>
8	9.6 Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.									
	9.6.1 In stringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.									
	Stair Case @ 500.00 Kg.	1	500.00			500.00				
						<b>TOTAL</b>	<b>500.00</b>	<b>Kg.</b>	<b>₹ 70.00</b>	<b>₹ 35,000.00</b>
						<b>SUB TOTAL AMOUNT</b>				<b>₹ 1,25,397.00</b>

# ELECTRIFICATION WORK

कार्यालय आई० टी० डी० पी०, अम्बिकापुर (सरगुजा)

SOR NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	2.1 Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed steel conduit, with 5 amp modular switch, modular base and cover plate, suitable size G.I. box and earthing the point with same size cable as required.				
	2.1.1 Short Point	Point	10	₹ 174.00	₹ 1,740.00
	2.1.2 Medium Point	Point	15	₹ 307.00	₹ 4,605.00
	2.1.3 Long Point	Point	12	₹ 444.00	₹ 5,328.00
2	2.5 Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size cable etc. as required.				
	2.5.3 Long Point	Point	3	₹ 1,031.00	₹ 3,093.00
	2.5.4 Extra Long Point I	Point	2	₹ 1,478.00	₹ 2,956.00
	2.5.5 Extra Long Point II	Point	1	₹ 1,978.00	₹ 1,978.00
	2.5.6 Extra Long Point III	Point	1	₹ 2,307.00	₹ 2,307.00
3	2.13 Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in concealed steel conduit as required.				
	2.13.2 3 X 2.5 sq. mm in 20mm conduit	Metre	60.00	₹ 85.00	₹ 5,100.00
	2.13.3 6 X 2.5 sq. mm in 25mm conduit	Metre	50.00	₹ 146.00	₹ 7,300.00
	2.13.4 12 X 2.5 sq. mm in 32mm conduit	Metre	40.00	₹ 265.00	₹ 10,600.00
	2.13.5 6 X 4.5 sq. mm in 32mm conduit	Metre	30.00	₹ 215.00	₹ 6,450.00
4	4.3 Supplying and fixing of following sizes PVC switch box suitable for modular switches with modular base and cover plates on surface complete as per specification				
	4.3.6 12 Module	Each	5	₹ 258.00	₹ 1,290.00
5	5.4 Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.				
	5.4.8 Fan regulator (two module size) electronic stepped type moving all rounds	Each	6	₹ 186.00	₹ 1,116.00
	5.4.20 Ceiling rose 3 pin 5 amp	Each	10	₹ 40.00	₹ 400.00
	5.4.22 Batten/ angle holder	Each	8	₹ 41.00	₹ 328.00
	5.4.1 5/6 amps one way switch	Each	20	₹ 69.00	₹ 1,380.00
6	9.4 Supplying and fixing on surface/ recess horizontal type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator)				
	9.4.5 6 way Single door	Each	1	₹ 2,038.00	₹ 2,038.00






SOR NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9.20	Supplying and fixing following rating, 415 volts, FOUR POLES, ISOLATOR in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
9.20.3	100 amps	Each	2	₹ 647.00	₹ 1,294.00
6.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) 1400 rpm exhaust fan in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9				
6.6.1	300 mm sweep	Each	4	₹ 2,446.00	₹ 9,784.00
6.17	Supplying, fixing, testing and commissioning of following LED lamps with inbuilt electronic driver heat sink and all other accessories in existing holder/ luminaries as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt.				
6.17.5	12 watt	Each	10	₹ 215.00	₹ 2,150.00
6.19	Supplying, installation, testing and commissioning of following LED tube light fitting including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/ in false ceiling, including connection, earthing etc complete as per specification and IP20, P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt.				
6.19.3	18/20 watt {4 feet}	Each	10	₹ 443.00	₹ 4,430.00
6.28	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 120$ lumens /watt.				
6.28.6	45 watt	Each	2	₹ 2,729.00	₹ 5,458.00
24.3	Supplying of approved make split type Air Conditioner unit with cooling unit (copper coil) and condensing unit (copper coil) including 5 years compressor warranty and standard length of upto 3 metre of copper piping with insulation, etc complete as per specification:				
24.3.3	2.0 ton split type capacity 6000 kcal / hr (3 star).	Each	6	₹ 48,012.00	₹ 2,88,072.00
24.4	Installation of split type Inverter/Non Inverter Air Conditioner unit, cooling unit on wall inside and condensing unit on out side wall/ ceiling/ floor at desired locations with existing standard length of copper piping with insulation and power cable including providing and fixing necessary good quality powder coated MS frame etc complete as per specification. (Extra length of copper piping and power cable shall be paid extra on linear basis)				
		Each	6	₹ 2,110.00	₹ 12,660.00



SOR NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
24.7	Supply and fixing of approved make wall mounting type voltage stabilizer with input volts 160-250, output volts 200-240 volts and double step relay on desired location with necessary fixing material including connection etc complete as per specification.				
24.7.2	5 KVA	Each	6	₹ 4,367.00	₹ 26,202.00
SUB TOTAL AMOUNT					₹ 4,08,059.00

  
 S.D.O. Tribal Development Department Surguja,  
 (C.G.)

