

## Detailed Estimate

**OD/373/3589/121782/383718/00072524 : Construction of Rest Room and Stage at Khuntmunda Volley Ball Field**  
**Block : Tangarpali, Gram Panchayat : Ujalpur**  
**Created By: PANCHAMI DHURUA**

<b>1. Earth Work (AR0102aa) : Earth work in hard soil or gravelly soil foundation &amp; plinth within 50m. Initial lead and 1.5m initial lift</b>									
Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per the direction of the Engineer-in-charge									
SI No	Description	No	L	B	D	CF	Quantity	Deduction	
i	LW	2.000	7.660	0.450	0.450	0.000	3.102	-	
ii	CW	3.000	5.030	0.450	0.450	0.000	3.056	-	
iii	COLUMN	8.000	1.200	1.200	1.200	0.000	13.824	-	
iv	STEPS	1.000	1.500	0.600	0.150	0.000	0.135	-	
v	COLUMN	8.000	1.200	0.450	0.450	0.000	-	1.944	
<b>Total Quantity</b>					<b>18.173025 cum (cum)</b>		<b>18.173025 Cum (Cubic Meter)</b>		
<b>Amount</b>					<b>18.173025 X 240.77592</b>		<b>4375.63</b>		
<b>2. Earth Work (AR0115) : Filling foundation and plinth with sand well watered and rammed</b>									
Filling foundation and plinth with sand well watered and rammed including cost, conveyance, royalty, taxes of all materials, labours and T & P required for the work etc. complete and as per direction of Engineer-in charge.									
SI No	Description	No	L	B	D	CF	Quantity	Deduction	
i	LW	2.000	7.660	0.450	0.100	0.000	0.689	-	
ii	CW	3.000	5.030	0.450	0.100	0.000	0.679	-	
iii	PL ROOM	1.000	4.650	2.250	0.150	0.000	1.569	-	
iv	HALL	1.000	4.650	4.650	0.150	0.000	3.243	-	

v	COLUMN	8.000	1.200	1.200	0.150	0.000	1.728	-	
vi	STEPS	1.000	1.500	0.600	0.100	0.000	0.090	-	
vii	COLUMN	8.000	1.200	0.450	0.100	0.000	-	0.432	
Total Quantity					7.5672 cum (cum)		7.5672 Cum (Cubic Meter)		
Amount					7.5672 X 1233.677832		9335.49		

### 3. Concrete (AR0303) : Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal

Cement concrete (1:3:6) with 4 cm. hard granite(Crusher Broken) metal including laying in layers not exceeding 300 mm in depth, ramming, compacting to proper thickness, watering and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete and as per direction of Engineer-in charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction	
i	LW	2.000	7.660	0.450	0.100	0.000	0.689	-	
ii	CW	3.000	5.030	0.450	0.100	0.000	0.679	-	
iii	COLUMN	8.000	1.200	1.200	0.150	0.000	1.728	-	
iv	PL ROOM	1.000	4.650	2.250	0.100	0.000	1.046	-	
v	PENDAL	1.000	4.650	4.650	0.100	0.000	2.162	-	
vi	STEPS	1.000	1.500	0.600	0.100	0.000	0.090	-	
vii	COLUMN	8.000	1.200	0.450	0.100	0.000	-	0.432	
Total Quantity					5.96295 cum (cum)		5.96295 Cum (Cubic Meter)		
Amount					5.96295 X 5482.33408752		32690.88		

### 4. R.C.C. Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc

Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. foundation, plinth band and footings bases of columns mass concrete precast slabs, etc

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	8.000	4.000	0.725	0.400	0.000	9.280	-

ii	Column up to pl	8.000	1.000	1.800	0.750	0.000	10.800	-
Total Quantity					20.08 Sqm (Sqm)		20.08 Sqm (Square Meter)	
Amount					20.08 X 216.23489289764		4342.00	
<b>5. R.C.C. Work (AR0410d) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting</b>								
Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. beams, column, grider and bressmer, etc. Data for 4.2sqm								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	1.000	5.000	0.920	2.750	0.000	12.650	-
ii	Column	1.000	3.000	1.260	2.750	0.000	10.395	-
iii	wall beam	1.000	2.000	30.410	0.250	0.000	15.205	-
iv	Room beam	1.000	2.000	4.800	0.250	0.000	2.400	-
Total Quantity					40.65 Sqm (Sqm)		40.65 Sqm (Square Meter)	
Amount					40.65 X 1047.3822930467		42576.09	
<b>6. R.C.C. Work (AR0410e) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting</b>								
Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. Lintels Data for 7.8 sqm								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	lintel	1.000	2.000	16.010	0.150	0.000	4.803	-
Total Quantity					4.803 Sqm (Sqm)		4.803 Sqm (Square Meter)	
Amount					4.803 X 499.15267251462		2397.43	
<b>7. R.C.C. Work (AR0410a) : Centring &amp; Shuttering for R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas</b>								

Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas up to 4.3m height

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Chhaja	2.000	1.100	0.530	0.000	0.000	1.166	-
ii	Slab	1.000	8.190	6.310	0.000	0.000	51.679	-
Total Quantity					52.8449 Sqm (Sqm)		52.8449 Sqm (Square Meter)	
Amount					52.8449 X 662.689943368		35019.78	

**8. R.C.C. Work (AR0409) : Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position**

Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge with cost of steel rod and as per drawing, design, and direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	ms rod	14.910	0.000	0.000	0.000	0.000	14.910	-
Total Quantity					14.91 Qntl (Quintal)		14.91 Qntl (Quintal)	
Amount					14.91 X 8664.2281572		129183.64	

**9. R.C.C. Work (AR0404B) : Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips.(Nominal mix as per IS-456, Table-9).**

R.C.C. work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete and as per direction of Engineer-in charge(Nominal mix as per IS-456, Table-9).

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Column	8.000	1.200	1.200	0.250	0.000	2.880	-
ii	DO	8.000	0.600	0.400	0.000	0.000	1.920	-
iii	column up to pl	8.000	0.350	0.350	0.750	0.000	0.735	-
iv	pl beam	1.000	30.410	0.230	0.250	0.000	1.749	-

v	column at s/s	5.000	0.230	0.230	2.750	0.000	0.727	-
vi	column	3.000	0.400	0.230	2.750	0.000	0.759	-
vii	lintel beam	1.000	16.010	0.230	0.150	0.000	0.552	-
viii	wchhaja	2.000	1.100	0.450	0.075	0.000	0.074	-
ix	wall beam	1.000	30.410	0.230	0.250	0.000	1.749	-
x	Room bram	1.000	4.800	0.230	0.300	0.000	0.331	-
xi	Slab	1.000	8.190	6.310	0.125	0.000	6.460	-
Total Quantity					17.9361825 cum (cum)		17.9361825 Cum (Cubic Meter)	
Amount					17.9361825 X 5648.3760544304		101310.30	

**10. Masonry Brick Work (AR0603c) : Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:6) in foundation and plinth**

Brickwork with Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:6) in foundation and plinth having crushing strength not less than 75.00 Kg/cm<sup>2</sup> with dimensional tolerance  $\pm 8$  percent immersing the bricks in water not less than six hours with cost conveyance, royalty, taxes of all materials, labor, and T&P required for the work, etc. complete and as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	LW	2.000	7.660	0.375	0.750	0.000	4.309	-
ii	CW	3.000	5.030	0.375	0.750	0.000	4.244	-
iii	PL band sides	1.000	30.410	0.125	0.250	0.000	0.950	-
iv	steps	1.000	1.500	0.300	0.150	0.000	0.068	-
v	do	1.000	1.500	0.300	0.450	0.000	0.203	-
vi	COLUMN	8.000	0.230	0.375	0.750	0.000	-	0.518
Total Quantity					9.255625 cum (cum)		9.255625 Cum (Cubic Meter)	
Amount					9.255625 X 5132.967534336		47508.82	

**11. Masonry Brick Work (AR0603ci) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure**

Brickwork with Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:6) in superstructure having crushing strength not less than 75.00 Kg/cm<sup>2</sup> with dimensional tolerance  $\pm 8$  percent immersing the bricks in water not less than six hours with cost conveyance, royalty, taxes of all materials, labor, and T&P required for the work, etc. complete and as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	LW	2.000	7.660	0.230	3.150	0.000	11.099	-
ii	CW	3.000	5.030	0.230	3.150	0.000	10.933	-
iii	Door	2.000	1.050	0.230	2.100	0.000	-	1.014
iv	Window	2.000	0.900	0.230	1.200	0.000	-	0.497
v	v	2.000	0.450	0.230	0.300	0.000	-	0.062
vi	opening	3.000	4.800	0.230	2.670	0.000	-	8.843
vii	column	5.000	0.230	0.230	2.750	0.000	-	0.727
viii	COLUMN	3.000	0.400	0.230	2.750	0.000	-	0.759
ix	LINTEL	1.000	16.010	0.230	0.150	0.000	-	0.552
x	WALL BEAM	1.000	30.410	0.230	0.250	0.000	-	1.749
Total Quantity					7.82851 cum (cum)		7.82851 Cum (Cubic Meter)	
Amount					7.82851 X 5166.297534336		40444.41	

**12. Plastering (AR1027) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside)**

6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside including chipping with proper level and line, curing for the proper period with cost conveyance, royalty, taxes of all materials, labor, and T & P required for the work, etc comp. and as per the direction of the Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Room	1.000	4.800	2.240	0.000	0.000	10.752	-
ii	Pendal	1.000	4.800	4.800	0.000	0.000	23.040	-

iii	beam	1.000	2.000	4.800	0.250	0.000	2.400	-
Total Quantity					36.192 Sqm (Sqm)		36.192 Sqm (Square Meter)	
Amount					36.192 X 192.1010842936		6952.52	
<b>13. Plastering (AR1004) : 12mm thick cement plster (1:6) over Brick work in inside</b>								
12mm thick cement plster (1:6) over Brick work in inside including racking out joints finishing smooth with proper plumb and line curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc. comp.and as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	LW	2.000	7.890	4.000	0.000	0.000	63.120	-
ii	CW	2.000	5.260	4.000	0.000	0.000	42.080	-
iii	Door	2.000	0.500	1.050	2.100	0.000	-	2.205
iv	Window	2.000	0.500	0.900	1.200	0.000	-	1.080
v	STEPS	1.500	2.000	1.000	0.000	0.000	3.000	-
Total Quantity					104.915 Sqm (Sqm)		104.915 Sqm (Square Meter)	
Amount					104.915 X 176.7073164304		18539.25	
<b>14. Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside.</b>								
16mm thick cement Plaster in CM (1:6) over brick work in inside including racking out joints finishing smooth with proper plumb and line, curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc comp.and as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Room	1.000	14.400	3.000	0.000	0.000	43.200	-
ii	DOOR	2.000	0.500	1.050	2.100	0.000	-	2.205
iii	window	2.000	0.500	0.900	1.200	0.000	-	1.080
Total Quantity					39.915 Sqm (Sqm)		39.915 Sqm (Square Meter)	

<b>Amount</b>				<b>39.915 X 252.329631584</b>			<b>10071.74</b>	
<b>15. Painting (AR0901d) : Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces (Inner surface)</b>								
Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Room I/S	2.000	4.800	3.000	0.000	0.000	28.800	-
ii	room	2.000	2.400	3.000	0.000	0.000	14.400	-
iii	Cilling	1.000	2.400	4.800	0.000	0.000	11.520	-
iv	pendal	1.000	4.800	4.800	0.000	0.000	23.040	-
v	O/S	2.000	7.890	3.850	0.000	0.000	60.753	-
vi	DO	2.000	5.260	3.850	0.000	0.000	40.502	-
vii	Pillar	3.000	1.280	2.750	0.000	0.000	10.560	-
viii	Door	2.000	0.500	1.050	2.100	0.000	-	2.205
ix	Window	2.000	0.500	0.900	1.200	0.000	-	1.080
x	opening	1.000	14.400	2.750	0.000	0.000	-	39.600
Total Quantity					146.69 Sqm (Sqm)		146.69 Sqm (Square Meter)	
<b>Amount</b>				<b>146.69 X 71.84257680551</b>			<b>10538.59</b>	
<b>16. Other Building Items. (AR1902) : cement based wall putty (water based)</b>								
Finishing surface of walls with cement based wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes,labour,T&P,etc.complete. and as per the direction of Engineer in Charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Room	2.000	4.800	3.000	0.000	0.000	28.800	-
ii	do	2.000	2.400	3.000	0.000	0.000	14.400	-

iii	cilling	1.000	4.800	2.400	0.000	0.000	11.520	-
iv	pendal	1.000	4.800	4.800	0.000	0.000	23.040	-
v	Door	1.000	0.500	1.050	2.100	0.000	-	1.103
vi	Window	2.000	0.500	0.900	1.200	0.000	-	1.080
Total Quantity					75.5775 Sqm (Sqm)		75.5775 Sqm (Square Meter)	
Amount					75.5775 X 79.21834		5987.12	

**17. Painting (AR0903i) : Painting two coats of enamel paint in outer surface paint (outer surface)**

Painting two coats of enamel paint in outer surface paint including all costs of labour, Paint and brushes required for the work etc. complete and as per direction of Engineer-in-charge.(Outside)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Door	2.000	1.050	2.100	2.250	0.000	9.923	-
ii	Window	2.000	0.900	1.200	2.750	0.000	5.940	-
Total Quantity					15.8625 Sqm (Sqm)		15.8625 Sqm (Square Meter)	
Amount					15.8625 X 164.2427377702		2605.30	

**18. Painting (AR0918ca) : Finishing wall two coats with weather coat with one coat oilbound Primer**

Finishing wall surface two coats with weather coat with one coat oilbound Primer including all costs of labour, Paint, Primer, Brushes and putty required for the work etc. complete and as per direction of Engineer-in-charge.(Outside)

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	out side	2.000	7.890	3.850	0.000	0.000	60.753	-
ii	do	2.000	5.260	3.850	0.000	0.000	40.502	-
iii	Cilling	1.000	4.800	4.800	0.000	0.000	23.040	-
iv	pillar	3.000	1.280	2.750	0.000	0.000	10.560	-
v	chhaja	2.000	1.000	0.900	0.000	0.000	1.800	-

vi	Door	2.000	0.500	1.050	2.100	0.000	-	2.205	
vii	Window	2.000	0.500	0.900	1.200	0.000	-	1.080	
viii	poening	1.000	14.400	3.000	0.000	0.000	-	43.200	
Total Quantity					90.17 Sqm (Sqm)		90.17 Sqm (Square Meter)		
Amount					90.17 X 156.87859381801		14145.74		

**19. Flooring (AR0817aa) : Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3)**

Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the Vitrified tiles including rubbing and polishing complete including cost of precast tiles.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Dados	1.000	14.400	0.150	0.000	0.000	2.160	-	
ii	front	1.000	4.800	0.150	0.000	0.000	0.720	-	
iii	Door	2.000	1.050	0.150	0.000	0.000	-	0.315	
Total Quantity					2.565 Sqm (Sqm)		2.565 Sqm (Square Meter)		
Amount					2.565 X 1531.732517591		3928.89		

**20. Other Building Items. (AR1901B) : Vitrified Tile 600mmx600mm Plain Ivory**

Supplying, fitting & fixing Vitrified Tile 600mmx600mm Plain Ivory in floors of size 600mm x 600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar(1:4)and filling joints with white cement of approved quality including cost of all materials, taxes, labour, T&P , etc. required for the work all complete as per direction of Engineer-in-charge(for new work only)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction	
i	Room	1.000	4.800	2.400	0.000	0.000	11.520	-	
ii	pendal	1.000	4.800	4.800	0.000	0.000	23.040	-	
iii	pillar	3.000	1.260	1.000	0.000	0.000	3.780	-	
Total Quantity					38.34 Sqm (Sqm)		38.34 Sqm (Square Meter)		

<b>Amount</b>						<b>38.34 X 1014.7432502942</b>	<b>38905.26</b>	
<b>21. Painting (AR0920) : Finishing wall two coats with plastic emulsion paint of approved shades on new work (Inside)</b>								
Finishing wall two coats with plastic emulsion paint of approved shades on new work to give an even shade including all costs of labor, Paint and Brushes required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Room I/S	2.000	4.800	3.000	0.000	0.000	28.800	-
ii	do	2.000	2.400	3.000	0.000	0.000	14.400	-
iii	front	1.000	4.800	3.000	0.000	0.000	14.400	-
iv	cilling	1.000	4.800	4.800	0.000	0.000	23.040	-
v	pillar	3.000	1.260	2.750	0.000	0.000	10.395	-
vi	Door	2.000	0.500	1.050	2.100	0.000	-	2.205
vii	Window	2.000	0.500	0.900	1.200	0.000	-	1.080
Total Quantity					87.75 Sqm (Sqm)		87.75 Sqm (Square Meter)	
<b>Amount</b>						<b>87.75 X 94.7676397125</b>	<b>8315.86</b>	
<b>22. Iron Work (AR1704) : Iron Doors and windows fixing</b>								
Supplying, fitting & fixing of Mild steel and put up for frames & shutters of Doors and windows fixing in position with cost, conveyance, taxes of all materials, labours and T & P required for the work etc. as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Door & window	1.000	180.000	0.000	0.000	0.000	180.000	-
Total Quantity					180 Kg (Kilo Gram)		1.8 Qntl (Quintal)	
<b>Amount</b>						<b>1.8 X 15995.809571087</b>	<b>28792.46</b>	
<b>23. Flooring (AR0816j) : Fixing Chequered Tiles in floor , treads or steps and landing on a 25mm thick bed of cement mortar 1:1</b>								

Fixing Chequered Tiles in floor , treads or steps and landing on a 25mm thick bed of cement mortar 1:1 (1cement: 1sand) jointed with neat cement slurry mixed with pigment to match the shades of the Chequered tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	STEPS	2.000	1.500	1.500	0.000	0.000	4.500	-
Total Quantity					4.5 Sqm (Sqm)		4.5 Sqm (Square Meter)	
Amount					4.5 X 979.8573525056		4409.36	
Total Amount							602376.57	
<b>Addition</b>								
Provision for PH Work (+) @								
Provision for EI Work (+) @							10500.00	
Provision for Contingency (+) @							6250.00	
Display Citizen Board (+) @							5000.00	
Any Other Lumpsum (+) @							813.00	
Provision for survey investigation and quality control (+) @								
Total Addition							22563.00	
Grand Net Total Amount							624939.57	

**PANCHAMI DHURUA**  
JE  
Tangarpali Block

**MANAS NETI**  
AEE  
Tangarpali Block

**BDO Tangarpali**  
BDO  
Tangarpali Block