

ESTIMATION DPR							
State	Odisha	District	Gajapati	Block	Rayagad	Gram Panchayat	Dambala

Work Code	OD/353/3363/117548/414749/00034803 (Improvement of Govt. UP School Dambalo)
Project Category	Building

Financial Year	2023-24	Execution Level	PS
Executing Agency	Panchayat Samiti, Rayagad	Proposal Date	-
Date of Commencement	19-11-2025	Date of Completion	-
Scheme Name	5th SFC Grant in Aid	Scheme Component Name	Maintenance of Primary School Building
Project Sub-Category	Elementary School	Project Type	Upgradation or Improvement
Name of Executant	Janemejay Mohanta		

Administrative Approval Details

Approval No.	OD/353/3363/117548/414749/00034803/AS
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Technical Sanction Details

Technical Sanction No.	OD/353/3363/117548/414749/00034803/TS
Fund Sanction No.	3809
Fund Sanction Amount (in Rs.)	600000

MATERIAL STATEMENT

SI.No.	Activity Name/Material	Qty/unit (B=Analysis Basic Qty/Header Unit)	Quantity (Meaurement Qty)	Unit
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1	R.C.C. Work (AR0404A) :.Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips - Reinforced cement concrete work of M-20 grade with 20mm & down grade 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. (excluding centring and shuttering)	-	8.97475	Cum
i)	BRM340 : Cement	3.4733	31.171999175	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	4.0386375	1 Cum
iii)	BRM060 : Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve & retained on 6.3mm sieve but whole should pass through 13.2mm sieve) (Crusher broken)	0.36	3.23091	1 Cum.
iv)	BRM052 : Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve & retained on 13.2mm sieve but whole should pass through 26.5mm sieve) (Crusher broken)	0.54	4.846365	1 Cum.

2	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.	-	9.5	Qntl
i)	BRM162 : Binding Wire.	0.8	7.6	1 Kg.
ii)	BRM341 : Steel	1.05	9.975	1 Qntl.
3	Plastering (AR1017) :.20mm thick cement Plaster in CM (1:4) over masonry work in inside. - 20mm thick cement Plaster in CM (1:4) over stone 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.	-	40.8	Sqm
i)	BRM340 : Cement	0.0744	3.03552	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.021	0.8568	1 Cum

4	<p>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/cm² with dimensional tolerance ± 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.</p>	-	15.9201	Cum
i)	<p>BRM006 : Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm² with dimensional tolerance ± 2 %</p>	400	6368.04	1000 Nos
ii)	<p>BRM340 : Cement</p>	0.672	10.6983072	1 Qntl.
iii)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.28	4.457628	1 Cum
5	<p>R.C.C. Work (AR0410d) :.Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting - 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</p>	-	30.3475	Sqm
i)	<p>BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.</p>	0.55238095238095	16.763380952381	1Mtr

ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0051904761904762	0.15751797619048	1Cum.
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 - 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	-	8.004	Sqm
i)	BRM094 : Non-sal bullahs 125mm. mean dia of any length.	0.26923076923077	2.1549230769231	1Mtr.
ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0052948717948718	0.042380153846154	1Cum.
7	R.C.C. Work (AR0410a) :.Centring & Shuttering for R.C.C. floor and roof slabs, landings,balconies, projecting sun shades and chajjas - 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	-	50.206	Sqm
i)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.622222222222222	31.2392888888889	1Mtr
ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0050222222222222	0.252145688888889	1Cum.

8	Plastering (AR1014) ::16mm thick cement Plaster in CM (1:6) over brick work in inside. - 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.	-	81.9	Sqm
i)	BRM340 : Cement	0.043	3.5217	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.018	1.4742	1 Cum
9	Plastering (AR1004) ::12mm thick cement plaster (1:6) over Brick work in inside - 12mm thick cement plaster (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.	-	86.96	Sqm
i)	BRM340 : Cement	0.0358	3.113168	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	1.3044	1 Cum

10	<p>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)</p>	-	82.3075	Sqm
i)	BRM174 : White Cement.	0.0076	0.625537	1Qntl
ii)	BRM340 : Cement	0.1074	8.8398255	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	1.7284575	1 Cum
iv)	BRM131 : Tiles up to Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15622:2006 (Group-B la) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)	1	82.3075	1 Sqm.

11	<p>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.</p>	-	10.41	Sqm
i)	<p>BRM131 : Tiles up to Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15622:2006 (Group-B Ia) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)</p>	1	10.41	1 Sqm.
ii)	<p>BRMMR0027 : Wax Polish</p>	1	10.41	1 Sqm
iii)	<p>BRM340 : Cement</p>	0.1375	1.431375	1 Qntl.
iv)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.015	0.15615	1 Cum
12	<p>Iron Work(AR1704) :.Iron Doors and windows fixing - 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.</p>	-	0.07065	Qntl
i)	<p>BRM341 : Steel</p>	1	0.07065	1 Qntl.

13	miscellaneous(ARM105) :.Labour for fitting and fixing of M.S. window grills including cost of screws complete. (Iron works) and as directed by Engineer-in-Charge. - Labour for fitting and fixing of M.S. window grills including cost of screws complete. (Iron works) and as directed by Engineer-in-Charge.	-	7.065	Sqm
i)	BRMM105 : Labour for fitting and fixing of M.S. window grills including cost of screws complete. (Iron works)	1	7.065	Sqm
14	Painting(AR0901b) :.Priming one coat in inner surface with primer of approved quality over iron work. - Priming one coat in inner surface with primer of approved quality over iron work including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.	-	42.705	Sqm
i)	BRM137 : Red oxide Primer	0.054	2.30607	1 Litre
15	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.	-	47.85	Sqm
i)	BRM340 : Cement	0.0372	1.78002	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.0075	0.358875	1 Cum

16	<p>Other Building Items. (AR1902) :.cement based wall putty (water based) - 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.</p>	-	129.75	Sqm
i)	BRMMR0038 : Cement based putty	0.8	103.8	kg
17	<p>Painting(AR0920) :.Finishing wall two coats with plastic emulsion paint of approved shades on new work (Inside) - 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)</p>	-	129.75	Sqm
i)	BRM140 : Plastic Emulsion paint	0.125	16.21875	1 Litre
18	<p>Painting(AR0922) :.Finishing wall two coats with distemper of approved shades on new work (Inside) - Finishing wall two coats with distemper 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)</p>	-	187.1125	Sqm
i)	BRM142 : Distemper	0.25	46.778125	1 Kg.

19	Painting(AR0917g) :.Finishing wall with one coat weather coat paint of approved shade including one coat of oil bound primer in the outer surface of old work (Outside) - Finishing wall with one coat weather coat paint of approved shade including one coat of oil bound primer in the outer surface of old work to give an even shade including all costs of labour, Paint, Brushes, and putty required for the work, etc. complete and as per direction of Engineer-in-charge. (Outside)	-	192.4455	Sqm
i)	BRM255 : Weather Coat (I.S.I.)	0.075	14.4334125	1 Ltr
ii)	BRM252 : Wall cement primer (I.S.I.) Oil bound	0.084	16.165422	1 Ltr

SI.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM340	63.591914875	1 Qntl.	807.512	51351.234364541
2	BRM028	14.375148	1 Cum	1030.79	14817.75880692
3	BRM060	3.23091	1 Cum.	2372.58	7665.5924478
4	BRM052	4.846365	1 Cum.	2336.2	11322.077913
5	BRM162	7.6	1 Kg.	90.1	684.76
6	BRM341	10.04565	1 Qntl.	6436.342	64657.2390123
7	BRM006	6368.04	1000 Nos	5.36398	34158.0391992
8	BRM084	48.00266984127	1Mtr	297.726	14291.642881162
9	BRM104	0.45204381892552	1Cum.	58620.646	26499.100685721
10	BRM094	2.1549230769231	1Mtr.	287.666	619.89810184615
11	BRM174	0.625537	1Qntl	2071.692	1295.919998604
12	BRM131	92.7175	1 Sqm.	668.8630561	62015.310403952
13	BRMMR0027	10.41	1 Sqm	8.5	88.485
14	BRMM105	7.065	Sqm	16.22	114.5943
15	BRM137	2.30607	1 Litre	143.24512	330.3332738784
16	BRMMR0038	103.8	kg	30	3114
17	BRM140	16.21875	1 Litre	249.88512	4052.82429
18	BRM142	46.778125	1 Kg.	70.64512	3304.646254

19	BRM255	14.4334125	1 Ltr	195.33512	2819.352362697
20	BRM252	16.165422	1 Ltr	126.04512	2037.5725558406
					Total: 305240.38185146