

ESTIMATION DPR							
State	Odisha	District	Rayagada	Block	Kolnara	Gram Panchayat	Badakhilapadar

Work Code	OD/370/3553/121193/426228/00037511 (Maintenance Of Govt. Primary School Building At Ghatineli)
Project Category	Building

Financial Year	2023-24	Execution Level	PS
Executing Agency	Panchayat Samiti, Kolnara	Proposal Date	-
Date of Commencement	28-01-2026	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	Repair and Maintenance
Name of Executant	K Sunil Kumar Mohanty		

Administrative Approval Details

Approval No.	OD/370/3553/121193/426228/00037511/AS
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Technical Sanction Details

Technical Sanction No.	OD/370/3553/121193/426228/00037511/TS
Fund Sanction No.	11045
Fund Sanction Amount (in Rs.)	333312

MATERIAL STATEMENT

Sl.No.	Activity Name/Material	Qty/unit (B=Analysis Basic Qty/Header Unit)	Quantity (Meaurement Qty)	Unit
1	Earth Work (AR0102aa) :.Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift - 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	-	2.025	Cum

2	Earth Work (AR0115) :.Filling foundation and plinth with sand well watered and rammed - 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.	-	0.675	Cum
i)	BRM029 : Sand for filling and road blinding	1	0.675	1 Cum
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.	-	2.7	Cum
i)	BRM340 : Cement	2.29	6.183	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	1.296	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	2.592	1 Cum.

4	Concrete (AR0307) ∴Cement concrete (1:2:4)with 12mm size hard broken granite chips per 1cum - Cement concrete work with (1:2:4) using 12mm size hard granite(crusher broken) 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 as per specificaion and direction of Engineer-in charge.	-	0.225	Cum
i)	BRM340 : Cement	3.23	0.72675	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.10125	1 Cum
iii)	BRM056 : Granite Stone broken chips 12mm. size (Minimum 65% by Wt. Passing through 13.2mm sieve & retained on 9.50mm sieve but whole should pass through 19mm sieve) (Crusher broken)	0.9	0.2025	1 Cum.
5	Dismantling (AR1612) ∴Dismantling and removing 2.5 cm. thick artificial stone flooring - Dismantling and removing 2.5 cm. thick artificial stone flooring including stacking the useful materials for reuse and removing the debris within 50m lead and as per direction of Engineer-in-Charge.	-	104	Sqm
6	Dismantling (AR1613) ∴Removing old lime or cement plaster - Removing old lime or cement plaster from walls including raking out joints 12 mm deep and removing the debris within 50m lead and as per direction of Engineer-in-Charge.	-	96	Sqm

7	Dismantling (AR1621) :.Removing old grading plaster from roof - Removing old grading plaster from roof slab, cleaning the surface,lowering and removing the debris within 50m lead and as per direction of Engineer-in-Charge.	-	116.9	Sqm
8	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.	-	96	Sqm
i)	BRM340 : Cement	0.0358	3.4368	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	1.44	1 Cum
9	Concrete (AR0317) :.2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips - 2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips including hoisting and laying in position compacting and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete as per specificaion and direction of Engineer-in charge. (new work)	-	116.9	Sqm
i)	BRM340 : Cement	0.1208	14.12152	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.0169	1.97561	1 Cum

iii)	BRM064 : Granite stone broken chips of 4.7 mm size passing through 6.7 mm sieve (crusher broken.) and retained on 2.36 mm sieve.	0.0169	1.97561	1 Cum.
10	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)	-	104	Sqm
i)	BRM174 : White Cement.	0.0076	0.7904	1Qntl
ii)	BRM340 : Cement	0.1074	11.1696	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	2.184	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 Ia) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)	1	104	1 Sqm.

11	Flooring (AR0817ab) :.Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm Coloured /Printed series(Homogeneous) 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 Coloured /Printed series(Homogeneous) 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.	-	5.424	Sqm
i)	BRM132 : 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 Coloured / Printed series(Homogeneous)	1	5.424	1 Sqm.
ii)	BRMMR0027 : Wax Polish	1	5.424	1 Sqm
iii)	CON026 : cement (Other way)	0.1375	0.7458	1000 kg
iv)	BRM340 : Cement	0.1375	0.7458	1 Qntl.
v)	BRM028 : Screened and washed sharp sand for mortar	0.015	0.08136	1 Cum

12	Painting(AR0901d) :.Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces (Inner surface) - 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.	-	320.28	Sqm
i)	BRM253 : Wall cement primer (I.S.I.) Water bound	0.084	26.90352	1 Ltr
13	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)	-	278.48	Sqm
i)	BRM142 : Distemper	0.25	69.62	1 Kg.
14	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)	-	125.76	Sqm
i)	BRM140 : Plastic Emulsion paint	0.125	15.72	1 Litre

15	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 ² 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.	-	2.07	Cum
i)	BRM006 : Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance ± 2 %	400	828	1000 Nos
ii)	BRM340 : Cement	0.672	1.39104	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.28	0.5796	1 Cum

16	R.C.C. Work (AR0404Ab) :.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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Plinth band)	-	0.207	Cum
i)	BRM340 : Cement	3.4733	0.7189731	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.09315	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	0.07452	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	0.11178	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.00276345	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.63	0.13041	1Mtr.

17	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.	-	1	Qntl
i)	BRM341 : Steel	1	1	1 Qntl.
18	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.	-	1	Qntl
i)	BRM162 : Binding Wire.	0.8	0.8	1 Kg.
ii)	BRM341 : Steel	1.05	1.05	1 Qntl.

19	R.C.C. Work (AR0404Ac) :.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. (including centring and shuttering) complete and as per direction of Engineer-in charge. (RCC Beams, Column, Girder & Bressmer etc)	-	0.54	Cum
i)	BRM340 : Cement	3.4733	1.875582	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.243	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	0.1944	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	0.2916	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	4.4196	2.386584	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.02242566	1Cum.

Sl.No.	Material Name	Qty	Unit	Rate	Amount
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1	BRM029	0.675	1 Cum	673.45	454.57875
2	BRM340	40.3690651	1 Qntl.	618.527	24969.356729108
3	BRM028	7.99397	1 Cum	678.39	5423.0293083
4	BRM044	2.592	1 Cum.	1551.51	4021.51392
5	BRM056	0.2025	1 Cum.	1998.13	404.621325
6	BRM064	1.97561	1 Cum.	1451.71	2868.0127931
7	BRM174	0.7904	1Qntl	2065.747	1632.7664288
8	BRM131	104	1 Sqm.	667.2266671	69391.5733784
9	BRM132	5.424	1 Sqm.	711.9066671	3861.3817623504
10	BRMMR0027	5.424	1 Sqm	8.5	46.104
11	CON026	0.7458	1000 kg	0	0
12	BRM253	26.90352	1 Ltr	159.51567	4291.5330181584
13	BRM142	69.62	1 Kg.	70.48567	4907.2123454
14	BRM140	15.72	1 Litre	249.82567	3927.2595324
15	BRM006	828	1000 Nos	5.71744	4734.04032
16	BRM060	0.26892	1 Cum.	2020.18	543.2668056
17	BRM052	0.40338	1 Cum.	1983.8	800.225244
18	BRM104	0.02518911	1Cum.	58620.646	1476.6019003651
19	BRM092	0.13041	1Mtr.	276.666	36.08001306
20	BRM341	2.05	1 Qntl.	6226.947	12765.24135
21	BRM162	0.8	1 Kg.	90.1	72.08
22	BRM084	2.386584	1Mtr	297.726	710.548107984
Total: 147337.02703203					