

ESTIMATION DPR							
State	Odisha	District	Angul	Block	Kaniha	Gram Panchayat	Biru

Work Code	OD/344/3280/115671/403880/00043003 (Repair and Maintenance of Kasia primary School)
Project Category	Building

Financial Year	2025-26	Execution Level	PS
Executing Agency	Panchayat Samiti, Kaniha	Proposal Date	-
Date of Commencement	03-02-2026	Date of Completion	08-04-2026
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	Sangram Keshari P Debata		

Administrative Approval Details

Approval No.	OD/344/3280/115671/403880/00043003/AS
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Technical Sanction Details

Technical Sanction No.	OD/344/3280/115671/403880/00043003/TS
Fund Sanction No.	34989
Fund Sanction Amount (in Rs.)	300000

MATERIAL STATEMENT

SI.No.	Activity Name/Material	Qty/unit (B=Analysis Basic Qty/Header Unit)	Quantity (Measurement Qty)	Unit
1	Dismantling (AR1620) ∴Dismantling and removing 2.5 cm thick grading concrete from roof - Dismantling and removing 2.5 cm thick grading concrete from roof slab cleaning the surface lowering and removing the debris within 50m lead and as per direction of Engineer-in-Charge.	-	49.5	Sqm

2	<p>Concrete (AR0318) :.4cm thick grading concrete (1:2:4) on roof slab with 12mm size hard granite chips (Crusher Broken) - 4cm thick grading concrete (1:2:4) on roof slab with 12mm size hard granite chips (Crusher Broken) including hoisting and laying in position compacting and curing for the proper period with cost conveyance, royalty, taxes of all materials, labor and T&P required for the work etc. complete as per specification and direction of Engineer-in-charge. (Old Work)</p>	-	49.5	Sqm
i)	BRM340 : Cement	0.1287	6.37065	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.018	0.891	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.	0.018	0.891	1 Cum.
iv)	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)	0.018	0.891	1 Cum.
3	<p>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.</p>	-	47.45	Sqm

4	<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>	-	52.1985	Sqm
i)	BRM174 : White Cement.	0.0076	0.3967086	1Qntl
ii)	BRM340 : Cement	0.1074	5.6061189	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	1.0961685	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	52.1985	1 Sqm.
5	<p>Flooring (AR0816j) :.Fixing Chequered Tiles in floor , treads or steps and landing on a 25mm thick bed of cement mortar 1:1 - 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 Enginer-in-charge.</p>	-	5.04	Sqm
i)	BRM134 : Chequered Tiles.	1	5.04	1 Sqm.

ii)	BRMMR0027 : Wax Polish	1	5.04	1 Sqm
iii)	BRM340 : Cement	0.2737	1.379448	1 Qntl.
iv)	BRM028 : Screened and washed sharp sand for mortar	0.013	0.06552	1 Cum
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.	-	43.412	Sqm
7	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	-	2.8656	Cum
8	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.	-	2.025475	Cum
i)	BRM029 : Sand for filling and road blinding	1	2.025475	1 Cum

9	<p>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.</p>	-	1.09675	Cum
i)	BRM340 : Cement	2.29	2.5115575	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	0.52644	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1.05288	1 Cum.
10	<p>Masonry Brick Work (AR0603b) :.Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth - Brickwork with Flyash Bricks of size (25cm x 12cm 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>	-	1.31841	Cum
i)	BRM340 : Cement	0.672	0.88597152	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.28	0.3691548	1 Cum

iii)	BRM005 : Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance \pm 2 %	350	461.4435	1000 Nos
11	Masonry Brick Work (AR0603bi) :Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure - Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure having crushing strength not less than 75.00 Kg/cm2 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.	-	3.6497	Cum
i)	BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1	3.6497	1 Cum
ii)	BRM340 : Cement	0.672	2.4525984	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.28	1.021916	1 Cum
iv)	BRM005 : Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance \pm 2 %	350	1277.395	1000 Nos

12	Flooring (AR0802ii) :.2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips - 2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips including punning incl. cost, conveyance & royalty of materials as per direction of Engineer-in-charge.	-	6.1915	Sqm
i)	BRM340 : Cement	0.0858	0.5312307	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.012	0.074298	1 Cum
iii)	BRM057 : 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)(Hand broken)	0.023	0.1424045	1 Cum.
13	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.	-	61.4838	Sqm
i)	BRM340 : Cement	0.0358	2.20112004	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	0.922257	1 Cum

14	<p>miscellaneous(ARM075) :G.I. sheet gutter upto 30cm wide including fixing with clamps and making connection with rain water pipes, etc.complete.(Roofing) and as directed by Engineer-in-Charge. - G.I. sheet gutter upto 30cm wide including fixing with clamps and making connection with rain water pipes, etc.complete.(Roofing) and as directed by Engineer-in-Charge.</p>	-	42.671998634496	Rmt
i)	<p>BRMM075 : G.I. sheet gutter upto 30cm wide including fixing with clamps and making connection with rain water pipes, etc.complete.(Roofing)</p>	1	42.671998634496	Rmt
15	<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>	-	2.27028468	Qntl
i)	<p>BRM341 : Steel</p>	1	2.27028468	1 Qntl.

16	<p>Other Building Items. (AR1911) :Stainless steel of 304 grade in hand railing using 50mm dia of 2mm - Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in staircase as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes of all materials, labour, T&P etc. required for the complete in all respect. and as per direction of Engineer in Charge</p>	-	5.6387998195584	Rmt
i)	BRMMR0024 : Buffing, Polishing etc.	0.30674846625767	1.7296931961836	L.S.
ii)	BRMMR0023 : Fabrication	10.478527607362	59.08631958163	kg
iii)	BRMMR0022 : Stainless steel square pipe bracing of size 32mmx32mmx2mm in 3 rows	5.101226993865	28.764797852533	kg
iv)	BRMMR0021 : Balustrade of size 30mmx32mmx2mm	1.8773006134969	10.585722360643	kg
v)	BRMMR0020 : Railing 50mm outer dia of 2mm thick	3.5	19.735799368454	kg

17	Painting(AR0919ak) :.Finishing wall One Coat with plastic emulsion paint of approved shades with one coat oilbound Primer on old work (Inside)(For repair and maintenance). - Finishing wall One Coat with plastic emulsion paint of approved shades with one coat oilbound Primer on old work to give an even shade including all costs of labor, Paint, Primer, Brushes and putty required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)(For repair and maintenance)	-		147.7557	Sqm
i)	BRM140 : Plastic Emulsion paint	0.075		11.0816775	1 Litre
ii)	BRM252 : Wall cement primer (I.S.I.) Oil bound	0.084		12.4114788	1 Ltr
18	Painting(AR0918g) :.Finishing wall with two coats weather coat paint of approved shade including one coat of oil bound primer in the outer surface of old work .(Outside) - Finishing wall with two coats 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)	-		237.5208	Sqm
i)	BRM255 : Weather Coat (I.S.I.)	0.125		29.6901	1 Ltr
ii)	BRM252 : Wall cement primer (I.S.I.) Oil bound	0.084		19.9517472	1 Ltr

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM340	21.93869506	1 Qntl.	551.372	12096.382172622

2	BRM028	4.9667543	1 Cum	483.09	2399.389334787
3	BRM064	0.891	1 Cum.	1588.94	1415.74554
4	BRM056	0.891	1 Cum.	2193.43	1954.34613
5	BRM174	0.3967086	1Qntl	2047.912	812.4243024432
6	BRM131	52.1985	1 Sqm.	662.3175001	34571.98002897
7	BRM134	5.04	1 Sqm.	254.75	1283.94
8	BRMMR0027	5.04	1 Sqm	8.5	42.84
9	BRM029	2.025475	1 Cum	803.65	1627.77298375
10	BRM044	1.05288	1 Cum.	1726.96	1818.2816448
11	BRM005	1738.8385	1000 Nos	6.01885	10465.808105725
12	BRMMR0025	3.6497	1 Cum	33	120.4401
13	BRM057	0.1424045	1 Cum.	1816.9	258.73473605
14	BRMM075	42.671998634496	Rmt	97.97	4180.5757062216
15	BRM341	2.27028468	1 Qntl.	6386.662	14499.540894938
16	BRMMR0024	1.7296931961836	L.S.	178.42	308.61186006307
17	BRMMR0023	59.08631958163	kg	10	590.8631958163
18	BRMMR0022	28.764797852533	kg	256.62	7381.6224249169
19	BRMMR0021	10.585722360643	kg	256.62	2716.5080721883
20	BRMMR0020	19.735799368454	kg	240.24	4741.3284402775
21	BRM140	11.0816775	1 Litre	249.64732	2766.5110889793
22	BRM252	32.363226	1 Ltr	125.80732	4071.5307296143
23	BRM255	29.6901	1 Ltr	195.09732	5792.458940532
Total: 115917.63643269					