

ESTIMATION DPR							
State	Odisha	District	Kandhamal	Block	Chakapad	Gram Panchayat	Bepelamendi(L)

Work Code	OD/359/3423/118882/415754/00063881 (Renovation & Maintenance of Upper Primary School, Bapalmendi-L)						
Project Category	Building						

Financial Year	2023-24	Execution Level	PS
Executing Agency	Panchayat Samiti, Chakapad	Proposal Date	13-01-2024
Date of Commencement	-	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			

Administrative Approval Details

Approval No.	
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Technical Sanction Details

Technical Sanction No.	OD/359/3423/118882/415754/00063881/TS
Fund Sanction No.	970
Fund Sanction Amount (in Rs.)	150000

ACTIVITY STATEMENT

S/N	ACTIVITY TAKEN	UNIT	QUANTITY	UNIT PRICE (IN RS.)	TOTAL (IN RS.)
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1	<p>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 ±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>	Cum	0.37980757504	5313.163280232	6858.7181885145
2	<p>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.</p>	Cum	4.0331051904	737.101232	6858.7181885145

3	<p>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.</p>	Cum	0.7321591808	7886.85738488	6858.7181885145
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4	<p>Flooring (AR0817ba) : Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm Plain (Ivory) in wall cladding/ glazed tiles 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 wall cladding/ glazed tiles 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>	Sqm	8.085812605	1143.326910925	6858.7181885145
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5	<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>	Sqm	97.2585527684	1026.4703672834	6858.7181885145
6	<p>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.</p>	Sqm	272.2333264492	71.84560304831	6858.7181885145

7	Painting (AR0901di) : Priming one coat with outer surface primer of approved quality water-bound primer over plastering surfaces(outer surface) - Priming one coat with outer 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.	Sqm	94.1307874674	72.863707752258	6858.7181885145
Total Amount (in Rs.): 146260.45673462					

LABOUR STATEMENT

SI.No.	Activity Name	Qty/unit(B=Analysis Basic Qty/HeaderUnit)	Quantity(Measurement Qty)	Unit
1	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/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.	-	0.37980757504	Cum

	i	Un-Skilled	2.96	1.1242304221184	-
	ii	Skilled	1.05	0.398797953792	-
	iii	Highly-Skilled	0.35	0.132932651264	-
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.	-	4.0331051904	Cum
	i	Un-Skilled	0.1236	0.49849180153344	-
3		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.	-	0.7321591808	Cum
	i	Un-Skilled	4.6	3.36793223168	-

	ii	Skilled	0.68	0.497868242944	-
4		Flooring (AR0817ba) : Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm Plain (Ivory) in wall cladding/ glazed tiles 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 wall cladding/ glazed tiles 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.	-	8.085812605	Sqm
	i	Un-Skilled	0.325	2.627889096625	-
	ii	Highly-Skilled	0.325	2.627889096625	-

5	<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>	-	97.2585527684	Sqm
i	Un-Skilled	0.216	21.007847397974	-
ii	Highly-Skilled	0.216	21.007847397974	-
6	<p>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.</p>	-	272.2333264492	Sqm
i	Highly-Skilled	0.053763440860215	14.636200346731	-
ii	Un-Skilled	0.053763440860215	14.636200346731	-

7	Painting (AR0901di) : Priming one coat with outer surface primer of approved quality water-bound primer over plastering surfaces(outer surface) - Priming one coat with outer 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.	-	94.1307874674	Sqm
i	Highly-Skilled	0.053763440860215	5.060795025129	-
ii	Un-Skilled	0.053763440860215	5.060795025129	-

SI.No.	Labour Type	Qty Unit	Rate	Amount
0	Un-Skilled	48.323386321791	462	22325.404480668
1	Skilled	0.896666196736	562	503.92640256563
2	Highly-Skilled	43.465664517724	612	26600.986684847
Total:				49430.31756808

MATERIAL STATEMENT

SI.No.	Activity Name/Material	Qty/unit (B=Analysis Basic Qty/Header Unit)	Quantity (Meaurement Qty)	Unit
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1	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/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.	-	0.37980757504	Cum
i)	BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1	0.37980757504	1 Cum
ii)	BRM340 : Cement	0.672	0.25523069042688	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.28	0.1063461210112	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 ± 2 %	350	132.932651264	1000 Nos
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.	-	4.0331051904	Cum
i)	BRM029 : Sand for filling and road blinding	1	4.0331051904	1 Cum

3	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 specifaion and direction of Engineer-in charge.	-	0.7321591808	Cum
i)	BRM340 : Cement	3.23	2.364874153984	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.32947163136	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	0.65894326272	1 Cum.

4	<p>Flooring (AR0817ba) :.Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm Plain (Ivory) in wall cladding/ glazed tiles 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 wall cladding/ glazed tiles 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>	-	8.085812605	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 la) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)</p>	1	8.085812605	1 Sqm.
ii)	<p>BRM340 : Cement</p>	0.1375	1.1117992331875	1 Qntl.
iii)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.015	0.121287189075	1 Cum

5	<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>	-	97.2585527684	Sqm
i)	BRM174 : White Cement.	0.0076	0.73916500103984	1Qntl
ii)	BRM340 : Cement	0.1074	10.445568567326	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	2.0424296081364	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	97.2585527684	1 Sqm.
6	<p>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.</p>	-	272.2333264492	Sqm
i)	BRM253 : Wall cement primer (I.S.I.) Water bound	0.084	22.867599421733	1 Ltr

7	Painting(AR0901di) :.Priming one coat with outer surface primer of approved quality water-bound primer over plastering surfaces(outer surface) - Priming one coat with outer 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.	-	94.1307874674	Sqm
i)	BRM253 : Wall cement primer (I.S.I.) Water bound	0.090322580645161	8.5021356422168	1 Ltr

SI.No.	Material Name	Qty	Unit	Rate	Amount
1	BRMMR0025	0.37980757504	1 Cum	33	12.53364997632
2	BRM340	14.177472644925	1 Qntl.	618.364	8766.8386946061
3	BRM028	2.5995345495826	1 Cum	1205.59	3133.9728576313
4	BRM005	132.932651264	1000 Nos	6.34695	843.71689094004
5	BRM029	4.0331051904	1 Cum	632.45	2550.7373776685
6	BRM056	0.65894326272	1 Cum.	2525.33	1664.0491896447
7	BRM131	105.3443653734	1 Sqm.	664.9357225	70047.231700866
8	BRM174	0.73916500103984	1Qntl	2057.424	1520.7758130994
9	BRM253	31.36973506395	1 Ltr	159.43244	5001.353403399
Total: 93541.209577831					

ROYALTY STATEMENT

SI.No.	Activity Name/Material	Qty/unit (B=Analysis Basic Qty/Header Unit)	Quantity (Meaurement Qty)	Unit
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1	<p>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 ±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>	-	0.37980757504	Cum
i)	BRM340 : Cement	0.672	0.25523069042688	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.28	0.1063461210112	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./Cm ² with dimensional tolerance ± 2 %	350	132.932651264	1000 Nos
2	<p>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.</p>	-	4.0331051904	Cum
i)	BRM029 : Sand for filling and road blinding	1	4.0331051904	1 Cum

3	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 specifaion and direction of Engineer-in charge.	-	0.7321591808	Cum
i)	BRM340 : Cement	3.23	2.364874153984	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.32947163136	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	0.65894326272	1 Cum.

4	<p>Flooring (AR0817ba) :.Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm Plain (Ivory) in wall cladding/ glazed tiles 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 wall cladding/ glazed tiles 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>	-	8.085812605	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 la) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)</p>	1	8.085812605	1 Sqm.
ii)	<p>BRM340 : Cement</p>	0.1375	1.1117992331875	1 Qntl.
iii)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.015	0.121287189075	1 Cum

5	<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>	-	97.2585527684	Sqm
i)	BRM174 : White Cement.	0.0076	0.73916500103984	1Qntl
ii)	BRM340 : Cement	0.1074	10.445568567326	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	2.0424296081364	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	97.2585527684	1 Sqm.
6	<p>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.</p>	-	272.2333264492	Sqm
i)	BRM253 : Wall cement primer (I.S.I.) Water bound	0.084	22.867599421733	1 Ltr

7	Painting(AR0901di) :.Priming one coat with outer surface primer of approved quality water-bound primer over plastering surfaces(outer surface) - Priming one coat with outer 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.	-	94.1307874674	Sqm
i)	BRM253 : Wall cement primer (I.S.I.) Water bound	0.090322580645161	8.5021356422168	1 Ltr

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	BRM028	2.5995345495826	1 Cum	40.25	104.6312656207
2	BRM029	4.0331051904	1 Cum	40.25	162.3324839136
3	BRM056	0.65894326272	1 Cum.	149.5	98.51201777664
Total: 365.47576731094					

ADDITION COMPONENT

SI.No.	Item Name	Amount (in Rs.)
1	Provision for Contingency @ 1%	Rs. 1462.6045673462
2	Display Citizen Board @ Rs. 2276.93	Rs. 2276.93
Total Addition Component Amount (in Rs.): 3739.5345673462		

Total Net Amount (in Rs.): 149999.99130196