

ESTIMATION DPR							
State	Odisha	District	Jajpur	Block	Korei	Gram Panchayat	Patharapada

Work Code	OD/356/3401/275216/400826/00075392 (REPAIR AND MAINTENCE OF PATHARAPADA PRIMARY SCHOOL)
Project Category	Building

Financial Year	2022-23	Execution Level	PS
Executing Agency	Panchayat Samiti, Korei	Proposal Date	-
Date of Commencement	15-01-2026	Date of Completion	-
Scheme Name	5th SFC Grant in Aid	Scheme Component Name	Maintenance of Primary School Building
Project Sub-Category	Secondary School	Project Type	Repair and Maintenance
Name of Executant	Dibya Lochan Samal		

Administrative Approval Details

Approval No.	OD/356/3401/275216/400826/00075392/AS
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Technical Sanction Details

Technical Sanction No.	OD/356/3401/275216/400826/00075392/TS
Fund Sanction No.	
Fund Sanction Amount (in Rs.)	800000

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	-	46.926	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.	-	20.1915	Cum
i)	BRM029 : Sand for filling and road blinding	1	20.1915	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.	-	14.7165	Cum
i)	BRM340 : Cement	2.29	33.700785	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	7.06392	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	14.12784	1 Cum.

4	<p>R.C.C. Work (AR0404Aa) ∴ 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 foundation, footing bases of column, mass concrete, pre-cast slabs etc.)</p>	-	6.955625	Cum
i)	BRM340 : Cement	3.4733	24.1589723125	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	3.13003125	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	2.504025	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	3.7560375	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.027857278125	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.189	1.314613125	1Mtr.

5	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)	-	6.875	Cum
i)	BRM340 : Cement	3.4733	23.8789375	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	3.09375	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	2.475	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	3.7125	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.09178125	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.63	4.33125	1Mtr.

6	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)	-	2.90625	Cum
i)	BRM340 : Cement	3.4733	10.094278125	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	1.3078125	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	1.04625	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	1.569375	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	4.4196	12.8444625	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.12069365625	1Cum.

7	<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>	-	10.34775	Cum
i)	BRM340 : Cement	0.672	6.953688	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.28	2.89737	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	3621.7125	1000 Nos
8	<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>	-	57.4414	Sqm
i)	BRM174 : White Cement.	0.0076	0.43655464	1Qntl
ii)	BRM340 : Cement	0.1074	6.16920636	1 Qntl.

iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	1.2062694	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	57.4414	1 Sqm.
9	Painting(AR0918cb) :Finishing wall two coats with weather coat with one coat waterbound Primer - Finishing wall two coats with weather coat with one coat waterbound 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)	-	402.6	Sqm
i)	BRM255 : Weather Coat (I.S.I.)	0.125	50.325	1 Ltr
ii)	BRM253 : Wall cement primer (I.S.I.) Water bound	0.090322580645161	36.363870967742	1 Ltr
10	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.	-	14.712	Qntl
i)	BRM162 : Binding Wire.	0.8	11.7696	1 Kg.
ii)	BRM341 : Steel	1.05	15.4476	1 Qntl.

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 ±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.	-		41.0625	Cum
i)	BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1		41.0625	1 Cum
ii)	BRM340 : Cement	0.672		27.594	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.28		11.4975	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		14371.875	1000 Nos

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	20.1915	1 Cum	478.15	9654.565725
2	BRM340	132.5498672975	1 Qntl.	568.667	75376.735386467
3	BRM028	30.19665315	1 Cum	483.09	14587.701170234
4	BRM044	14.12784	1 Cum.	1802.51	25465.5728784
5	BRM060	6.025275	1 Cum.	2277.01	13719.61142775
6	BRM052	9.0379125	1 Cum.	2244.2	20282.8832325
7	BRM104	0.240332184375	1Cum.	58573.086	14076.997703965
8	BRM092	5.645863125	1Mtr.	229.106	1293.5011171163
9	BRM084	12.8444625	1Mtr	250.166	3213.247805775
10	BRM005	17993.5875	1000 Nos	6.1891	111364.11239625
11	BRM174	0.43655464	1Qntl	2036.732	889.14480503648

12	BRM131	57.4414	1 Sqm.	662.3175001	38044.444450244
13	BRM255	50.325	1 Ltr	193.36677	9731.18270025
14	BRM253	36.363870967742	1 Ltr	155.96677	5671.5554995355
15	BRM162	11.7696	1 Kg.	90.1	1060.44096
16	BRM341	15.4476	1 Qntl.	6223.282	96134.7710232
17	BRMMR0025	41.0625	1 Cum	33	1355.0625
					Total: 441921.53078172