

ESTIMATION DPR							
State	Odisha	District	Kalahandi	Block	Narala	Gram Panchayat	Muskuti

Work Code	OD/358/3420/118836/422327/00064529 (REPAIR & MAINTENANCE OF KENDUPADA PRIMARY SCHOOL)						
Project Category	Building						

Financial Year	2022-23	Execution Level	PS
Executing Agency	Panchayat Samiti, Narala	Proposal Date	-
Date of Commencement	02-12-2025	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	Repair and Maintenance
Name of Executant	SUKANTI BISWAL		

Administrative Approval Details

Approval No.	OD/358/3420/118836/422327/00064529/AS
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Technical Sanction Details

Technical Sanction No.	OD/358/3420/118836/422327/00064529/TS
Fund Sanction No.	
Fund Sanction Amount (in Rs.)	120000

ACTIVITY STATEMENT

S/N	ACTIVITY TAKEN	UNIT	QUANTITY	UNIT PRICE (IN RS.)	TOTAL (IN RS.)
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1	<p>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</p>	Cum	12.888	240.77592	44600.740685643
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	1.8	780.531232	44600.740685643

3	<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>	Cum	1.8	5763.7930378	44600.740685643
4	<p>Masonry Brick Work (AR06059) : Brick work with K.B. bricks 25cm x 12cm x 8cm - Brick work with K.B. bricks 25cm x 12cm x 8cm size having crushing strength not less than 75 Kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:3) in foundation and plinth</p>	Cum	2.87645	5496.0297966	44600.740685643

5	<p>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.</p>	Qntl	2.13	8439.929862	44600.740685643
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6	<p>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)</p>	Cum	4.10257	6026.918474746	44600.740685643
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7	<p>Masonry Brick Work (AR0602i) : K.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) in superstructure - Brickwork with K.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) 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	7.81908	5704.0905945	44600.740685643
Total Amount (in Rs.): 117995.60486967					

LABOUR STATEMENT

SI.No.	Activity Name	Qty/unit(B=Analysis Basic Qty/HeaderUnit)	Quantity(Measurement Qty)	Unit
1	<p>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</p>	-	12.888	Cum

	i	Un-Skilled	0.516	6.650208	-
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.	-	1.8	Cum
	i	Un-Skilled	0.1236	0.22248	-
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.	-	1.8	Cum
	i	Skilled	0.18	0.324	-
	ii	Un-Skilled	3.9	7.02	-

4	Masonry Brick Work (AR06059) : Brick work with K.B. bricks 25cm x 12cm x 8cm - Brick work with K.B. bricks 25cm x 12cm x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:3) in foundation and plinth	-	2.87645	Cum
i	Un-Skilled	2.82	8.111589	-
ii	Skilled	1.05	3.0202725	-
iii	Highly-Skilled	0.35	1.0067575	-
5	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.	-	2.13	Qntl
i	Un-Skilled	0.8	1.704	-
ii	Highly-Skilled	0.3	0.639	-

	iii	Semi-Skilled	0.044	0.09372	-
6		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)	-	4.10257	Cum
	i	Un-Skilled	1.3333	5.469956581	-
	ii	Skilled	0.1	0.410257	-
	iii	Semi-Skilled	0.0573	0.235077261	-

7	<p>Masonry Brick Work (AR0602i) : K.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) in superstructure - Brickwork with K.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) 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>	-	7.81908	Cum
i	Un-Skilled	2.96	23.1444768	-
ii	Skilled	1.05	8.210034	-
iii	Highly-Skilled	0.35	2.736678	-

SI.No.	Labour Type	Qty Unit	Rate	Amount
0	Un-Skilled	52.322710381	462	24173.092196022
1	Skilled	11.9645635	562	6724.084687
2	Highly-Skilled	4.3824355	612	2682.050526
3	Semi-Skilled	0.328797261	512	168.344197632
Total:				33747.571606654

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	-	12.888	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.	-	1.8	Cum
i)	BRM029 : Sand for filling and road blinding	1	1.8	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.	-	1.8	Cum
i)	BRM340 : Cement	2.29	4.122	1 Qntl.

ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	0.864	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1.728	1 Cum.
4	Masonry Brick Work (AR06059) :.Brick work with K.B. bricks 25cm x 12cm x 8cm - Brick work with K.B. bricks 25cm x 12cm x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:3) in foundation and plinth	-	2.87645	Cum
i)	BRM340 : Cement	1.33	3.8256785	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.28	0.805406	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 \pm 2 %	350	1006.7575	1000 Nos
5	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.	-	2.13	Qntl
i)	BRM162 : Binding Wire.	0.8	1.704	1 Kg.
ii)	BRM341 : Steel	1.05	2.2365	1 Qntl.

6	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)	-	4.10257	Cum
i)	BRM340 : Cement	3.4733	14.249456381	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	1.8461565	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	1.4769252	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	2.2153878	1 Cum.

7	Masonry Brick Work (AR0602i) :K.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) in superstructure - Brickwork with K.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) 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.	-		7.81908	Cum
i)	BRM003 : K.B. bricks (25 Cm x 12Cm x 8Cm) having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance ± 8 percent.	350		2736.678	1000 Nos
ii)	BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1		7.81908	1 Cum
iii)	BRM340 : Cement	1		7.81908	1 Qntl.
iv)	BRM028 : Screened and washed sharp sand for mortar	0.28		2.1893424	1 Cum

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	1.8	1 Cum	673.45	1212.21
2	BRM340	30.016214881	1 Qntl.	632.012	18970.607999371
3	BRM028	5.7049049	1 Cum	678.39	3870.150435111
4	BRM044	1.728	1 Cum.	1661.86	2871.69408
5	BRM005	1006.7575	1000 Nos	6.1539	6195.48497925
6	BRM162	1.704	1 Kg.	90.1	153.5304
7	BRM341	2.2365	1 Qntl.	6229.912	13933.198188
8	BRM060	1.4769252	1 Cum.	2061.61	3044.843761572
9	BRM052	2.2153878	1 Cum.	2046.61	4534.034825358
10	BRM003	2736.678	1000 Nos	7.117045	19477.06047651

11	BRMMR0025	7.81908	1 Cum	33	258.02964
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Total: 74520.844785172

ROYALTY 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	-	12.888	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.	-	1.8	Cum
i)	BRM029 : Sand for filling and road blinding	1	1.8	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.	-	1.8	Cum
i)	BRM340 : Cement	2.29	4.122	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	0.864	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1.728	1 Cum.
4	Masonry Brick Work (AR06059) :.Brick work with K.B. bricks 25cm x 12cm x 8cm - Brick work with K.B. bricks 25cm x 12cm x 8cm size having crushing strength not less than 75 Kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:3) in foundation and plinth	-	2.87645	Cum
i)	BRM340 : Cement	1.33	3.8256785	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.28	0.805406	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 \pm 2 %	350	1006.7575	1000 Nos

5	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.	-	2.13	Qntl
i)	BRM341 : Steel	1.05	2.2365	1 Qntl.
6	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)	-	4.10257	Cum
i)	BRM340 : Cement	3.4733	14.249456381	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	1.8461565	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	1.4769252	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	2.2153878	1 Cum.
7	Masonry Brick Work (AR0602i) :.K.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) in superstructure - Brickwork with K.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) 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.	-	7.81908	Cum
i)	BRM003 : K.B. bricks (25 Cm x 12Cm x 8Cm) having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance ± 8 percent.	350	2736.678	1000 Nos
ii)	BRM340 : Cement	1	7.81908	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.28	2.1893424	1 Cum

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	BRM029	1.8	1 Cum	42.25	76.05
2	BRM028	5.7049049	1 Cum	42.25	241.032232025
3	BRM044	1.728	1 Cum.	184.5	318.816

4	BRM060	1.4769252	1 Cum.	184.5	272.4926994
5	BRM052	2.2153878	1 Cum.	184.5	408.7390491
6	BRM003	2736.678	1000 Nos	0.04025	110.1512895
Total: 1427.281270025					

ADDITION COMPONENT

Sl.No.	Item Name	Amount (in Rs.)
1	Provision for Contingency @ 1%	Rs. 1179.9560486967
2	Display Citizen Board @ Rs. 824	Rs. 824
Total Addition Component Amount (in Rs.): 2003.9560486967		

Total Net Amount (in Rs.): 119999.56091837