

ESTIMATION DPR							
State	Odisha	District	Balasore	Block	Soro	Gram Panchayat	Madhusuidan pur

Work Code	OD/346/3309/116318/393756/00063203 (Maintenance of Khajuridiha Kalika Thakurani Pokhari (Pucca Ghat Guard Wall))
Project Category	Water Body

Financial Year	2023-24	Execution Level	PS
Executing Agency	Panchayat Samiti, Soro	Proposal Date	-
Date of Commencement	31-10-2025	Date of Completion	
Scheme Name	5th SFC Grant in Aid	Scheme Component Name	Maintenance of Capital Assets
Project Sub-Category	Tank	Project Type	Renovation or Rejuvenation
Name of Executant			

Administrative Approval Details

Approval No.	OD/346/3309/116318/393756/00063203/AS
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Technical Sanction Details

Technical Sanction No.	
Fund Sanction No.	
Fund Sanction Amount (in Rs.)	500000

ACTIVITY STATEMENT

S/N	ACTIVITY TAKEN	UNIT	QUANTITY	UNIT PRICE (IN RS.)	TOTAL (IN RS.)
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1	<p style="text-align: center;">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	8.7408	240.77592	2104.574161536
2	<p style="text-align: center;">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	2.0496	1493.995232	3062.0926275072

3	<p style="text-align: center;">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	10.7904	6052.17287774	65305.366219966
4	<p>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.</p>	Sqm	16.8	180.2285061348	3027.8389030646

5	<p align="center">R.C.C.</p> <p>Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc - Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. foundation, plinth band and footings bases of columns mass concrete precast slabs, etc</p>	Sqm	19.668	216.29483748359	4254.0868636272
6	<p align="center">Concrete (AR0307) :</p> <p>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	6.2496	7469.65532138	46682.357896496

7	<p style="text-align: center;">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	2.1	5500.606513832	11551.273679047
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8	<p style="text-align: center;">Special items for irrigation works (AR0201) :</p> <p>Excavation of any approved type of soil in an approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within an initial lead of 1km -</p> <p>Excavation of any approved type of soil in an approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within an initial lead of 1km on a properly prepared and scientifically approved surface including spreading and leveling the earth in 22.5 cm layers to make ready for watering and compaction with sheep foot rollers and dozers but excluding watering and compaction in dams and dykes for all heights including construction, maintenance, watering and lighting of haul road and borrow area, etc. complete as per the direction of Engineer-in charge. (measurement of the fill to be taken on the finished compacted section under OMC condition).</p>	Cum	6049.92	56.56	342183.4752
Total Amount (in Rs.): 478171.06555124					

LABOUR STATEMENT

Sl.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>	-	8.7408	Cum
i	Un-Skilled	0.516	4.5102528	-
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>	-	2.0496	Cum
i	Un-Skilled	0.1236	0.25333056	-

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>	-	10.7904	Cum
i	Skilled	0.18	1.942272	-
ii	Un-Skilled	3.9	42.08256	-
4	<p>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.</p>	-	16.8	Sqm
i	Un-Skilled	0.12	2.016	-
ii	Skilled	0.14	2.352	-

5	<p>R.C.C. Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc - Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. foundation, plinth band and footings bases of columns mass concrete precast slabs, etc</p>	-	19.668	Sqm
i	Semi-Skilled	0.05	0.9834	-
ii	Skilled	0.05	0.9834	-
6	<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>	-	6.2496	Cum
i	Un-Skilled	4.6	28.74816	-
ii	Skilled	0.68	4.249728	-

7	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.	-	2.1	Cum
i	Un-Skilled	2.96	6.216	-
ii	Skilled	1.05	2.205	-
iii	Highly-Skilled	0.35	0.735	-

8	<p>Special items for irrigation works (AR0201) : Excavation of any approved type of soil in an approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within an initial lead of 1km - Excavation of any approved type of soil in an approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within an initial lead of 1km on a properly prepared and scientifically approved surface including spreading and leveling the earth in 22.5 cm layers to make ready for watering and compaction with sheep foot rollers and dozers but excluding watering and compaction in dams and dykes for all heights including construction, maintenance, watering and lighting of haul road and borrow area, etc. complete as per the direction of Engineer-in charge. (measurement of the fill to be taken on the finished compacted section under OMC condition).</p>	-	6049.92	Cum
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SI.No.	Labour Type	Qty Unit	Rate	Amount
1	Un-Skilled	83.82630336	462	38727.75215232
2	Skilled	11.7324	562	6593.6088
3	Semi-Skilled	0.9834	512	503.5008
4	Highly-Skilled	0.735	612	449.82

MATERIAL STATEMENT

SI.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	-	8.7408	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.	-	2.0496	Cum
i)	BRM029 : Sand for filling and road blinding	1	2.0496	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.	-	10.7904	Cum
i)	BRM340 : Cement	2.29	24.710016	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	5.179392	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	10.358784	1 Cum.
4	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.	-	16.8	Sqm
i)	BRM340 : Cement	0.0358	0.60144	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	0.252	1 Cum

5	<p>R.C.C. Work (AR0410c) :.R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc - Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. foundation, plinth band and footings bases of columns mass concrete precast slabs, etc</p>	-	19.668	Sqm
i)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.05251356	1Cum.
ii)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.126	2.478168	1Mtr.
6	<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 specifaion and direction of Engineer-in charge.</p>	-	6.2496	Cum
i)	BRM340 : Cement	3.23	20.186208	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.81232	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	5.62464	1 Cum.

7	<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>	-	2.1	Cum
i)	<p>BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK</p>	1	2.1	1 Cum
ii)	<p>BRM340 : Cement</p>	0.672	1.4112	1 Qntl.
iii)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.28	0.588	1 Cum
iv)	<p>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 %</p>	350	735	1000 Nos

8	<p>Special items for irrigation works(AR0201) .Excavation of any approved type of soil in an approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within an initial lead of 1km - Excavation of any approved type of soil in an approved borrow area by mechanical means loading into and transportation by mechanical means and unloading the soil within an initial lead of 1km on a properly prepared and scientifically approved surface including spreading and leveling the earth in 22.5 cm layers to make ready for watering and compaction with sheep foot rollers and dozers but excluding watering and compaction in dams and dykes for all heights including construction, maintenance, watering and lighting of haul road and borrow area, etc. complete as per the direction of Engineer-in charge. (measurement of the fill to be taken on the finished compacted section under OMC condition).</p>	-	6049.92	Cum
i)	<p>BRMMR0101 : Cost of mechanical excavation per cum without supervision charge for item AR0201</p>	1	6049.92	Cum
ii)	<p>BRMMR0103 : cost of transportation of loose earth within the initial lead of 1 km, excluding supervision charges-AR0201</p>	1	6049.92	Cum
iii)	<p>BRMMR0060 : Add construction and maintenance of haul road (L.S.)</p>	1	6049.92	Cum

iv)	BRMMR0106 : Add for spreading of earth - AR0201	1	6049.92	Cum
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Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	2.0496	1 Cum	979.85	2008.30056
2	BRM340	46.908864	1 Qntl.	546.307	25626.640765248
3	BRM028	8.831712	1 Cum	984.79	8697.38166048
4	BRM044	10.358784	1 Cum.	1466.56	15191.77826304
5	BRM104	0.05251356	1Cum.	58591.1588	3076.8303331133
6	BRM092	2.478168	1Mtr.	247.1788	612.5505924384
7	BRM056	5.62464	1 Cum.	1867.93	10506.4337952
8	BRMMR0025	2.1	1 Cum	33	69.3
9	BRM005	735	1000 Nos	6.89015	5064.26025
10	BRMMR0101	6049.92	Cum	21.51	130133.7792
11	BRMMR0103	6049.92	Cum	28.99	175387.1808
12	BRMMR0060	6049.92	Cum	1.5	9074.88
13	BRMMR0106	6049.92	Cum	4	24199.68
Total: 409648.99621952					

ROYALTY STATEMENT

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	BRM029	2.0496	1 Cum	442.25	906.4356
2	BRM028	8.831712	1 Cum	442.25	3905.824632
3	BRM044	10.358784	1 Cum.	552.5	5723.22816
4	BRM056	5.62464	1 Cum.	552.5	3107.6136
Total: 13643.101992					

ADDITION COMPONENT

Sl.No.	Item Name	Amount (in Rs.)
1	Display Citizen Board @ Rs. 5000	Rs. 5000
2	Any Other Lumpsum @ Rs. 5000	Rs. 5000
3	Provision for survey investigation and quality control @ Rs. 6828.93	Rs. 6828.93

4	Provision for Contingency @ Rs. 5000	Rs. 5000
Total Addition Component Amount (in Rs.): 21828.93		

Total Net Amount (in Rs.): 499999.99555124