

ESTIMATION DPR

State	Odisha	District	Kandhamal	Block	Tumudibandh	Gram Panchayat	Bilamala
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Work Code	OD/359/3433/119011/417106/00064380 (Construction of guard wall from Bilamala to Dhudusi)
Project Category	CD Work

Financial Year	2024-25	Execution Level	PS
Executing Agency	Panchayat Samiti, Tumudibandh	Proposal Date	22-07-2024
Date of Commencement	-	Date of Completion	
Scheme Name	5th SFC Grant in Aid	Scheme Component Name	MAINTENANCE OF ROADS AND BRIDGES
Project Sub-Category	Drain Masonry or Cement Concrete	Project Type	New Work
Name of Executant			

Administrative Approval Details

Approval No.	
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Technical Sanction Details

Technical Sanction No.	
Fund Sanction No.	1473
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	50.7437056	240.77592	12217.862400049
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	6.3429632	842.302832	5342.6958666318

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	69.37616	5683.7623649	394317.60722928
4	<p style="text-align: center;">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 specifcaion and direction of Engineer-in charge.</p>	Cum	1.1893056	7177.8528803	8536.6606265169

5	<p align="center">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>	Sqm	109.253928	216.23489289764	23624.511419726
6	<p align="center">Earth Work (AR0122Bii) : Earthwork in hard soil or gravelly soil within 5 Km. mechanical carriages and spreading in filling area/road berm within initial lead and lift - Earthwork in hard soil or gravelly soil within 5 Km.mechanical carriages and spreading in filling area/road berm within initial lead and lift including dressing and leveling the bed, etc. as per direction of Engineer-in-Charge.</p>	Cum	132.522624	361.33930892	47885.633372425
Total Amount (in Rs.): 491924.97091463					

LABOUR STATEMENT

SI.No.	Activity Name	Qty/unit(B=Analysis Basic Qty/HeaderUnit)	Quantity(Measurement Qty)	Unit
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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>	-	50.7437056	Cum
i	Un-Skilled	0.516	26.1837520896	-
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>	-	6.3429632	Cum
i	Un-Skilled	0.1236	0.78399025152	-

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>	-	69.37616	Cum
i	Skilled	0.18	12.4877088	-
ii	Un-Skilled	3.9	270.567024	-
4	<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>	-	1.1893056	Cum
i	Un-Skilled	4.6	5.47080576	-

	ii	Skilled	0.68	0.808727808	-
5		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	-	109.253928	Sqm
	i	Semi-Skilled	0.05	5.4626964	-
	ii	Skilled	0.05	5.4626964	-
6		Earth Work (AR0122Bii) : Earthwork in hard soil or gravelly soil within 5 Km. mechanical carriages and spreading in filling area/road berm within initial lead and lift - Earthwork in hard soil or gravelly soil within 5 Km.mechanical carriages and spreading in filling area/road berm within initial lead and lift including dressing and leveling the bed, etc. as per direction of Engineer-in-Charge.	-	132.522624	Cum
	i	Un-Skilled	0.43	56.98472832	-

SI.No.	Labour Type	Qty Unit	Rate	Amount
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1	Un-Skilled	359.99030042112	462	166315.51879456
2	Skilled	18.759133008	562	10542.632750496
3	Semi-Skilled	5.4626964	512	2796.9005568
				Total: 179655.05210185

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	-	50.7437056	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.	-	6.3429632	Cum
i)	BRM029 : Sand for filling and road blinding	1	6.3429632	1 Cum

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>	-	69.37616	Cum
i)	BRM340 : Cement	2.29	158.8714064	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	33.3005568	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	66.6011136	1 Cum.
4	<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>	-	1.1893056	Cum
i)	BRM340 : Cement	3.23	3.841457088	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.53518752	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	1.07037504	1 Cum.
5	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	-	109.253928	Sqm
i)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.29170798776	1Cum.
ii)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.126	13.765994928	1Mtr.
6	Earth Work (AR0122Bii) :-Earthwork in hard soil or gravelly soil within 5 Km. mechanical carriages and spreading in filling area/road berm within initial lead and lift - Earthwork in hard soil or gravelly soil within 5 Km.mechanical carriages and spreading in filling area/road berm within initial lead and lift including dressing and leveling the bed, etc. as per direction of Engineer-in-Charge.	-	132.522624	Cum
i)	BRMM402 : Loading into trucks and unloading from trucks within 50 Meter lead (2/3 of rate is consider for loading).	-0.6666	-88.3395811584	1 Cum

ii)	BRMM401 : Conveyance of material by 10 ton trucks within 5 KM including loading and unloading	1	132.522624	1 Cum
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SI.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	6.3429632	1 Cum	736.61	4672.290122752
2	BRM340	162.712863488	1 Qntl.	593.257	96530.5452543
3	BRM028	33.83574432	1 Cum	808.59	27359.244499709
4	BRM044	66.6011136	1 Cum.	1661.86	110681.7266473
5	BRM056	1.07037504	1 Cum.	2063.23	2208.4298937792
6	BRM104	0.29170798776	1Cum.	58573.086	17086.237053953
7	BRM092	13.765994928	1Mtr.	229.106	3153.8720339744
8	BRMM402	-88.3395811584	1 Cum	175.38	-15492.99574356
9	BRMM401	132.522624	1 Cum	276.01	36577.56945024

Total: 282776.91921244

ROYALTY STATEMENT

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	BRM029	6.3429632	1 Cum	40.25	255.3042688
2	BRM028	33.83574432	1 Cum	40.25	1361.88870888
3	BRM044	66.6011136	1 Cum.	149.5	9956.8664832
4	BRM056	1.07037504	1 Cum.	149.5	160.02106848

Total: 11734.08052936

ADDITION COMPONENT

SI.No.	Item Name	Amount (in Rs.)
1	Provision for Contingency @ 1%	Rs. 4919.2497091463
2	Display Citizen Board @ Rs. 3155.7	Rs. 3155.7

Total Addition Component Amount (in Rs.): 8074.9497091463

Total Net Amount (in Rs.): 499999.92062378