

ESTIMATION DPR							
State	Odisha	District	Malkangiri	Block	Malkangiri	Gram Panchayat	Pedawada

Work Code	OD/364/3484/120002/430193/00063764 (Construction of road and culvert at Pedawada to Dongruguda)						
Project Category	CD Work						

Financial Year	2024-25	Execution Level	PS
Executing Agency	Panchayat Samiti, Malkangiri	Proposal Date	-
Date of Commencement	-	Date of Completion	
Scheme Name	Chief Minister Special Assistant	Scheme Component Name	Chief Minister Special Assistance (CM-SA)
Project Sub-Category	Slab Culvert	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.	
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	44.64	240.77592	10748.2370688
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	3.72	515.507232	1917.68690304

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	54.853	5283.21944744	289800.43635043
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	0.962	6806.95229528	6548.2881080594

5	<p style="text-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	82.278	216.55039071844	17817.333047532
6	<p style="text-align: center;">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	4.267683	8965.8116625	38263.242013253

7	<p style="text-align: center;">R.C.C. Work (AR0404A) : Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips -</p> <p>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	5.67	5529.1808901288	31350.45564703
8	<p>Plastering (AR1026i) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces (outside)</p> <p>- 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in outside with proper level and line, curing for the proper period with cost conveyance, royalty, taxes of all materials, labor, and T & P required for the work, etc comp. and as per the direction of the Engineer-in-charge.</p>	Sqm	47.78	159.3900943056	7615.6587059216

9	<p align="center">R.C.C. Work (AR0410k) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling upto 8M span - 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. Work in slab for culverts and Bridges upto 8M span)</p>	Sqm	10.5	796.69077618027	8365.2531498928
10	<p align="center">Bridge Works (AR2008) : Back filling behind abutment, wing wall and return wall using sandy material complete. - Back filling behind abutment, wing wall and return wall using sandy material complete as per drawing and direction of Engineer-in charge.</p>	Cum	8.85	912.6850254	8077.26247479

11	<p style="text-align: center;">Road Work (AR1342) : Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam(WMM) specification including premixing the material. -</p> <p>Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in subbase/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Clause 406 of MoRT&H Specifications for Road & Bridge works (Last Revision)and as per direction of Engineer-in-Charge.</p>	Cum	31.5	1992.6569657778	62768.694422001
Total Amount (in Rs.): 483272.54789075					

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 -</p> <p>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>	-	44.64	Cum
i	Un-Skilled	0.516	23.03424	-
2	<p>Earth Work (AR0115) : Filling foundation and plinth with sand well watered and rammed -</p> <p>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>	-	3.72	Cum
i	Un-Skilled	0.1236	0.459792	-

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>	-	54.853	Cum
i	Skilled	0.18	9.87354	-
ii	Un-Skilled	3.9	213.9267	-
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>	-	0.962	Cum
i	Un-Skilled	4.6	4.4252	-

	ii	Skilled	0.68	0.65416	-
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	-	82.278	Sqm
	i	Semi-Skilled	0.05	4.1139	-
	ii	Skilled	0.05	4.1139	-
6		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.	-	4.267683	Qntl
	i	Un-Skilled	0.8	3.4141464	-

	ii	Highly-Skilled	0.3	1.2803049	-
	iii	Semi-Skilled	0.044	0.187778052	-
7		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)	-	5.67	Cum
	i	Un-Skilled	1.3333	7.559811	-
	ii	Skilled	0.1	0.567	-
	iii	Semi-Skilled	0.0573	0.324891	-

8	<p>Plastering (AR1026i) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces (outside) - 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in outside with proper level and line, curing for the proper period with cost conveyance, royalty, taxes of all materials, labor, and T & P required for the work, etc comp. and as per the direction of the Engineer-in-charge.</p>	-	47.78	Sqm
i	Un-Skilled	0.12	5.7336	-
ii	Skilled	0.14	6.6892	-
9	<p>R.C.C. Work (AR0410k) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling upto 8M span - 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. Work in slab for culverts and Bridges upto 8M span)</p>	-	10.5	Sqm
i	Semi-Skilled	0.366666666666667	3.85	-
ii	Skilled	0.366666666666667	3.85	-

10	<p>Bridge Works (AR2008) : Back filling behind abutment, wing wall and return wall using sandy material complete. - Back filling behind abutment, wing wall and return wall using sandy material complete as per drawing and direction of Engineer-in charge.</p>	-	8.85	Cum
i	Un-Skilled	0.7	6.195	-
ii	Semi-Skilled	0.028	0.2478	-
11	<p>Road Work (AR1342) : Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam(WMM) specification including premixing the material. - Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in subbase/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Clause 406 of MoRT&H Specifications for Road & Bridge works (Last Revision)and as per direction of Engineer-in-Charge.</p>	-	31.5	Cum

i	Un-Skilled	0.0444444444444444	1.4	-
ii	Skilled	0.0088888888888889	0.28	-
iii	Semi-Skilled	0.0021333333333333	0.0672	-

SI.No.	Labour Type	Qty Unit	Rate	Amount
1	Un-Skilled	266.1484894	462	122960.6021028
2	Skilled	26.0278	562	14627.6236
3	Semi-Skilled	8.791569052	512	4501.283354624
4	Highly-Skilled	1.2803049	612	783.5465988
Total:				142873.05565622

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	-	44.64	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.	-	3.72	Cum
i)	BRM029 : Sand for filling and road blinding	1	3.72	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.	-	54.853	Cum
i)	BRM340 : Cement	2.29	125.61337	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	26.32944	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	52.65888	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 specifaion and direction of Engineer-in charge.</p>	-	0.962	Cum
i)	BRM340 : Cement	3.23	3.10726	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.4329	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	0.8658	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>	-	82.278	Sqm
i)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.21968226	1Cum.
ii)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.126	10.367028	1Mtr.

6	<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>	-	4.267683	Qntl
i)	BRM162 : Binding Wire.	0.8	3.4141464	1 Kg.
ii)	BRM341 : Steel	1.05	4.48106715	1 Qntl.
7	<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>	-	5.67	Cum
i)	BRM340 : Cement	3.4733	19.693611	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.5515	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	2.0412	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	3.0618	1 Cum.
8	Plastering (AR1026i) :.6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces (outside) - 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in outside with proper level and line, curing for the proper period with cost conveyance, royalty, taxes of all materials, labor, and T & P required for the work, etc comp. and as per the direction of the Engineer-in-charge.	-	47.78	Sqm
i)	BRM340 : Cement	0.0271	1.294838	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.0075	0.35835	1 Cum
9	R.C.C. Work (AR0410k) :.Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling upto 8M span - 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. Work in slab for culverts and Bridges upto 8M span)	-	10.5	Sqm

i)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.746666666666667	7.84	1Mtr
ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.006026666666667	0.06328	1Cum.
10	Bridge Works(AR2008) :.Back filling behind abutment, wing wall and return wall using sandy material complete. - Back filling behind abutment, wing wall and return wall using sandy material complete as per drawing and direction of Engineer-in charge.	-	8.85	Cum
i)	BRM029 : Sand for filling and road blinding	1.2	10.62	1 Cum
11	Road Work (AR1342) :.Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam(WMM) specification including premixing the material. - Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver in subbase/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per Clause 406 of MoRT&H Specifications for Road & Bridge works (Last Revision)and as per direction of Engineer-in-Charge.	-	31.5	Cum
i)	BRMMR0037 : Cost of water	0.08	2.52	KL

ii)	BRM026 : Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	0.198	6.237	1 Cum
iii)	BRM063 : Granite Stone screening (Passing through 2.36mm sieve & retained on 180 micron sieve)	0.462	14.553	1 Cum.
iv)	BRM050 : Granite Stone broken metal 22.4mm. size (Passing through 26.5mm sieve & retained on 11.2mm sieve) (Crusher broken)	0.462	14.553	1 Cum.
v)	BRM042 : Granite Stone broken metal 45mm. size (Passing through 53mm sieve & retained on 26.5mm sieve) (Crusher broken)	0.198	6.237	1 Cum.

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	14.34	1 Cum	413.05	5923.137
2	BRM340	149.709079	1 Qntl.	596.827	89350.420492333
3	BRM028	29.67219	1 Cum	613.29	18197.6574051
4	BRM044	52.65888	1 Cum.	1336.36	70371.2208768
5	BRM056	0.8658	1 Cum.	1737.73	1504.526634
6	BRM104	0.28296226	1Cum.	58668.206	16600.888159906
7	BRM092	10.367028	1Mtr.	324.226	3361.260020328
8	BRM162	3.4141464	1 Kg.	90.1	307.61459064
9	BRM341	4.48106715	1 Qntl.	6651.057	29803.833035478
10	BRM060	2.0412	1 Cum.	1759.78	3592.062936
11	BRM052	3.0618	1 Cum.	1723.4	5276.70612
12	BRM084	7.84	1Mtr	345.286	2707.04224
13	BRMMR0037	2.52	KL	10	25.2
14	BRM026	6.237	1 Cum	477.44	2977.79328
15	BRM063	14.553	1 Cum.	1146.96	16691.70888
16	BRM050	14.553	1 Cum.	1464.89	21318.54417
17	BRM042	6.237	1 Cum.	1240.44	7736.62428

Total: 295746.24012058

ROYALTY STATEMENT

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	BRM029	14.34	1 Cum	40.25	577.185
2	BRM028	29.67219	1 Cum	40.25	1194.3056475
3	BRM044	52.65888	1 Cum.	149.5	7872.50256
4	BRM056	0.8658	1 Cum.	149.5	129.4371
5	BRM060	2.0412	1 Cum.	149.5	305.1594
6	BRM052	3.0618	1 Cum.	149.5	457.7391
7	BRM026	6.237	1 Cum	40.25	251.03925
8	BRM063	14.553	1 Cum.	149.5	2175.6735
9	BRM050	14.553	1 Cum.	149.5	2175.6735
10	BRM042	6.237	1 Cum.	149.5	932.4315
Total:					16071.1465575

ADDITION COMPONENT

SI.No.	Item Name	Amount (in Rs.)
1	Provision for Contingency @ 1%	Rs. 4832.7254789075
2	Display Citizen Board @ Rs. 5000	Rs. 5000
3	Any Other Lumpsum @ Rs. 6894	Rs. 6894
Total Addition Component Amount (in Rs.):		16726.725478908

Total Net Amount (in Rs.): 499999.27336965