

ESTIMATION DPR							
State	Odisha	District	Jharsuguda	Block	Jharsuguda	Gram Panchayat	Marakuta

Work Code	OD/357/3404/118527/381116/00014136 (Const.. Of Culvert on Old Gp Office house to Samlei Bar Road)
Project Category	Road

Financial Year	2021-22	Execution Level	PS
Executing Agency	Panchayat Samiti, Jharsuguda	Proposal Date	02-11-2023
Date of Commencement	-	Date of Completion	
Scheme Name	5th SFC Grant in Aid	Scheme Component Name	MAINTENANCE OF ROADS AND BRIDGES
Project Sub-Category	CC Road	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.	1111
Fund Sanction Amount (in Rs.)	300000

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	38.95825344	240.77592	9380.2093136092
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	10.71224544	974.966332	10444.078644121

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	20.805344048	6053.741838	125950.18171736
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4	<p>Concrete (AR0307a) : Cement concrete (1:2:4)with 12mm size hard granite(Hand broken)chips per 1cum - Cement concrete work with (1:2:4) using 12mm size hard granite(hand broken) chips including hoisting and laying in position compacting to proper thickness 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	10.651930656	7268.857183	77427.362661683
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5	<p style="text-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	61.23979954	216.39264180804	13251.842006255
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6	<p style="text-align: center;">R.C.C.</p> <p>Work (AR0410a) : Centring & Shuttering for R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas - 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. floor and roof slabs, landings, balconies, projecting sun shades and chajjas up to 4.3m height</p>	Sqm	10.01680146	663.29946175911	6644.1390169659
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7	<p>Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside. - 16mm thick cement Plaster in CM (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	29.18826454	250.4763236	7310.9691942434
8	<p>Road Work (AR1307) : Supplying & spreading moorum and consolidation with HRR - Supplying & spreading moorum and consolidation with HRR including cost, conveyance, royalty, taxes cost of all labour & material, hire charges of T & P materials required for work as per specification and complete as per direction of Engineer-in-Charge.</p>	Cum	20.5579968	1100.9604486784	22633.541380857

9	<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 -</p> <p>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	2.12	8837.0803248	18734.610288576
Total Amount (in Rs.): 291776.93422367					

LABOUR STATEMENT

Sl.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>	-	38.95825344	Cum
i	Un-Skilled	0.516	20.10245877504	-
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>	-	10.71224544	Cum
i	Un-Skilled	0.1236	1.324033536384	-

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.	-	20.805344048	Cum
i	Skilled	0.18	3.74496192864	-
ii	Un-Skilled	3.9	81.1408417872	-

4	<p>Concrete (AR0307a) : Cement concrete (1:2:4)with 12mm size hard granite(Hand broken)chips per 1cum - Cement concrete work with (1:2:4) using 12mm size hard granite(hand broken) chips including hoisting and laying in position compacting to proper thickness 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>	-	10.651930656	Cum
i	Un-Skilled	4.6	48.9988810176	-
ii	Skilled	0.68	7.24331284608	-

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	-	61.23979954	Sqm
i	Semi-Skilled	0.05	3.061989977	-
ii	Skilled	0.05	3.061989977	-

6	<p>R.C.C. Work (AR0410a) : Centring & Shuttering for R.C.C. floor and roof slabs, landings, balconies, projecting sun shades and chajjas - 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. floor and roof slabs, landings, balconies, projecting sun shades and chajjas up to 4.3m height</p>	-	10.01680146	Sqm
i	Semi-Skilled	0.305555555555556	3.060689335	-
ii	Skilled	0.305555555555556	3.060689335	-
7	<p>Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside. - 16mm thick cement Plaster in CM (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>	-	29.18826454	Sqm

	i	Un-Skilled	0.24	7.0051834896	-
	ii	Skilled	0.16	4.6701223264	-
8		Road Work (AR1307) : Supplying & spreading moorum and consolidation with HRR - Supplying & spreading moorum and consolidation with HRR including cost, conveyance, royalty, taxes cost of all labour & material, hire charges of T & P materials required for work as per specification and complete as per direction of Engineer-in-Charge.	-	20.5579968	Cum
	i	Un-Skilled	1.0600706713781	21.792929469965	-

9	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.	-	2.12	Qntl
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i	Un-Skilled	0.8	1.696	-
ii	Highly-Skilled	0.3	0.636	-
iii	Semi-Skilled	0.044	0.09328	-

Sl.No.	Labour Type	Qty Unit	Rate	Amount
2	Un-Skilled	182.06032807579	462	84111.871571014
4	Skilled	21.78107641312	562	12240.964944173
3	Semi-Skilled	6.215959312	512	3182.571167744

5	Highly-Skilled	0.636	612	389.232
				Total: 99924.639682932

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	-	38.95825344	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.	-	10.71224544	Cum
i)	BRM029 : Sand for filling and road blinding	1	10.71224544	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>	-	20.805344048	Cum
i)	BRM340 : Cement	2.29	47.64423786992	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	9.98656514304	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	19.97313028608	1 Cum.
4	<p>Concrete (AR0307a) :.Cement concrete (1:2:4)with 12mm size hard granite(Hand broken)chips per 1cum - Cement concrete work with (1:2:4) using 12mm size hard granite(hand broken) chips including hoisting and laying in position compacting to proper thickness 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>	-	10.651930656	Cum

i)	BRM057 : 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)(Hand broken)	0.9	9.5867375904	1 Cum.
ii)	BRM340 : Cement	3.23	34.40573601888	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.45	4.7933687952	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	-	61.23979954	Sqm
i)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.1635102647718	1Cum.
ii)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.126	7.71621474204	1Mtr.

6	<p>R.C.C. Work (AR0410a) :.Centring & Shuttering for R.C.C. floor and roof slabs, landings,balconies, projecting sun shades and chajjas - 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. floor and roof slabs, landings, balconies, projecting sun shades and chajjas up to 4.3m height</p>	-	10.01680146	Sqm
i)	<p>BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.</p>	0.622222222222222	6.232676464	1Mtr
ii)	<p>BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)</p>	0.005022222222222	0.050306602888	1Cum.
7	<p>Plastering (AR1014) :.16mm thick cement Plaster in CM (1:6) over brick work in inside. - 16mm thick cement Plaster in CM (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>	-	29.18826454	Sqm
i)	<p>BRM340 : Cement</p>	0.043	1.25509537522	1 Qntl.
ii)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.018	0.52538876172	1 Cum

8	Road Work (AR1307) :.Supplying & spreading moorum and consolidation with HRR - Supplying & spreading moorum and consolidation with HRR including cost, conveyance, royalty, taxes cost of all labour & material, hire charges of T & P materials required for work as per specification and complete as per direction of Engineer-in-Charge.	-		20.5579968	Cum
i)	BRM025 : Gravel or moorum	1.28		26.314235904	1 Cum
9	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.	-		2.12	Qntl
i)	BRM162 : Binding Wire.	0.8		1.696	1 Kg.
ii)	BRM341 : Steel	1.05		2.226	1 Qntl.

Sl.No.	Material Name	Qty	Unit	Rate	Amount
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1	BRM029	10.71224544	1 Cum	472.21	5058.4294192224
2	BRM340	83.30506926402	1 Qntl.	564.582	47032.542615219
3	BRM028	15.30532269996	1 Cum	480.21	7349.7690137478
4	BRM044	19.97313028608	1 Cum.	1661.86	33192.546297225
5	BRM057	9.5867375904	1 Cum.	1751.8	16794.046910863
6	BRM104	0.2138168676598	1Cum.	58620.646	12534.082907914
7	BRM092	7.71621474204	1Mtr.	276.666	2134.8142678212
8	BRM084	6.232676464	1Mtr	297.726	1855.6298329209
9	BRM025	26.314235904	1 Cum	406.99	10709.630870569
10	BRM162	1.696	1 Kg.	90.1	152.8096
11	BRM341	2.226	1 Qntl.	6543.652	14566.169352
Total: 151380.4710875					

ROYALTY STATEMENT

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	BRM029	10.71224544	1 Cum	436	4670.53901184
2	BRM028	15.30532269996	1 Cum	436	6673.1206971826
3	BRM044	19.97313028608	1 Cum.	438	8748.231065303
4	BRM057	9.5867375904	1 Cum.	438	4198.9910645952
5	BRM025	26.314235904	1 Cum	62	1631.482626048
Total: 25922.364464969					

ADDITION COMPONENT

Sl.No.	Item Name	Amount (in Rs.)
1	Provision for Contingency @ Rs. 3000	Rs. 3000
2	Display Citizen Board @ Rs. 5000	Rs. 5000
3	Any Other Lumpsum @ Rs. 222.8	Rs. 222.8
Total Addition Component Amount (in Rs.): 8222.8		

Total Net Amount (in Rs.): 299999.73422367