

ESTIMATION DPR							
State	Odisha	District	Cuttack	Block	Cuttacksadar	Gram Panchayat	Jasapada

Work Code	OD/350/3337/116961/399948/00064472 (Construction of CC road Kosida Gadia Kothaga-I with Culvert ,Jasapada GP)						
Project Category	Road						

Financial Year	2022-23	Execution Level	PS
Executing Agency	Panchayat Samiti, Cuttacksadar	Proposal Date	-
Date of Commencement	-	Date of Completion	
Scheme Name	5th SFC Grant in Aid	Scheme Component Name	All Weather Connectivity
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.	OD/350/3337/116961/399948/00064472/TS
Fund Sanction No.	22117
Fund Sanction Amount (in Rs.)	137000

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	6.50595	240.77592	1566.476096724
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	2.487975	588.227232	1463.4946475352

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	8.80387	6060.21693386	53353.362057502
4	<p style="text-align: center;">R.C.C. Work (AR0410d) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting - 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. beams, column, grider and bressmer, etc. Data for 4.2sqm</p>	Sqm	21.8472	1047.3822930467	22882.37043265

5	<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>	Sqm	10.8805	662.689943368	7210.3979288155
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>	Qntl	2.95	8766.8045955	25862.073556725

7	<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 specificaion and direction of Engineer-in charge.</p>	Cum	0.44652	7524.48725582	3359.8340494687
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8	<p style="text-align: center;">R.C.C. Work (AR0404B) : Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips.(Nominal mix as per IS-456, Table-9). - R.C.C. work of M-20 grade with 20mm & downgrade 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(Nominal mix as per IS-456, Table-9).</p>	Cum	2.039499	6215.5805850522	12676.670387633
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9	<p style="text-align: center;">Masonry Brick Work (AR0603ci) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure - Brickwork with Flyash Bricks of size (23cm x 11cm 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	0.68625	4930.276261248	3383.4020842814
10	<p style="text-align: center;">Plastering (AR1026) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces (inside) - 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside 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	10.336	157.5640704414	1628.5822320823

11	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.	Sqm	5.49	241.145586262	1323.8892685784
Total Amount (in Rs.): 134710.552742					

LABOUR STATEMENT

SI.No.	Activity Name	Qty/unit(B=Analysis Basic Qty/HeaderUnit)	Quantity(Measurement 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	-	6.50595	Cum
i	Un-Skilled	0.516	3.3570702	-

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.	-	2.487975	Cum
i	Un-Skilled	0.1236	0.30751371	-
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.	-	8.80387	Cum
i	Skilled	0.18	1.5846966	-
ii	Un-Skilled	3.9	34.335093	-

4	<p>R.C.C. Work (AR0410d) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting - 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. beams, column, grider and bressmer, etc. Data for 4.2sqm</p>	-	21.8472	Sqm
i	Semi-Skilled	0.6547619047619	14.304714285714	-
ii	Skilled	0.6547619047619	14.304714285714	-
5	<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>	-	10.8805	Sqm
i	Semi-Skilled	0.30555555555556	3.3245972222222	-
ii	Skilled	0.30555555555556	3.3245972222222	-

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>	-	2.95	Qntl
i	Un-Skilled	0.8	2.36	-
ii	Highly-Skilled	0.3	0.885	-
iii	Semi-Skilled	0.044	0.1298	-
7	<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>	-	0.44652	Cum

	i	Un-Skilled	4.6	2.053992	-
	ii	Skilled	0.68	0.3036336	-
8		R.C.C. Work (AR0404B) : Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips.(Nominal mix as per IS-456, Table-9). - R.C.C. work of M-20 grade with 20mm & downgrade 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(Nominal mix as per IS-456, Table-9).	-	2.039499	Cum
	i	Un-Skilled	1.3333	2.7192640167	-
	ii	Skilled	0.1	0.2039499	-
	iii	Semi-Skilled	0.0573	0.1168632927	-

9	<p>Masonry Brick Work (AR0603ci) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure - Brickwork with Flyash Bricks of size (23cm x 11cm 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>	-	0.68625	Cum
	i Un-Skilled	2.96	2.0313	-
	ii Skilled	1.05	0.7205625	-
	iii Highly-Skilled	0.35	0.2401875	-
10	<p>Plastering (AR1026) : 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces (inside) - 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside 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>	-	10.336	Sqm
	i Un-Skilled	0.12	1.24032	-

	ii	Skilled	0.14	1.44704	-
11		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.	-	5.49	Sqm
	i	Un-Skilled	0.24	1.3176	-
	ii	Skilled	0.16	0.8784	-

SI.No.	Labour Type	Qty Unit	Rate	Amount
1	Un-Skilled	49.7221529267	462	22971.634652135
2	Skilled	22.767594107937	562	12795.38788866
3	Semi-Skilled	17.875974800637	512	9152.4990979259
4	Highly-Skilled	1.1251875	612	688.61475
Total:				45608.136388722

MATERIAL STATEMENT

SI.No.	Activity Name/Material	Qty/unit (B=Analysis Basic Qty/Header Unit)	Quantity (Meaurement 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>	-	6.50595	Cum
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>	-	2.487975	Cum
i)	BRM029 : Sand for filling and road blinding	1	2.487975	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>	-	8.80387	Cum
i)	BRM340 : Cement	2.29	20.1608623	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	4.2258576	1 Cum

iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	8.4517152	1 Cum.
4	R.C.C. Work (AR0410d) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting - 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. beams, column, grider and bressmer, etc. Data for 4.2sqm	-	21.8472	Sqm
i)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.55238095238095	12.067977142857	1Mtr
ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0051904761904762	0.11339737142857	1Cum.
5	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	-	10.8805	Sqm
i)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.6222222222222222	6.77008888888889	1Mtr
ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0050222222222222	0.054644288888889	1Cum.

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.	-	2.95	Qntl
i)	BRM162 : Binding Wire.	0.8	2.36	1 Kg.
ii)	BRM341 : Steel	1.05	3.0975	1 Qntl.
7	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.	-	0.44652	Cum
i)	BRM340 : Cement	3.23	1.4422596	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.200934	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	0.401868	1 Cum.

8	<p>R.C.C. Work (AR0404B) :.Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips.(Nominal mix as per IS-456, Table-9). - R.C.C. work of M-20 grade with 20mm & downgrade 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(Nominal mix as per IS-456, Table-9).</p>	-	2.039499	Cum
i)	<p>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)</p>	0.36	0.73421964	1 Cum.
ii)	<p>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)</p>	0.54	1.10132946	1 Cum.
iii)	<p>BRM340 : Cement</p>	3.4733	7.0837918767	1 Qntl.
iv)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.45	0.91777455	1 Cum

9	<p>Masonry Brick Work (AR0603ci) :.Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure - Brickwork with Flyash Bricks of size (23cm x 11cm 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>	-	0.68625	Cum
i)	<p>BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK</p>	1	0.68625	1 Cum
ii)	<p>BRM006 : Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm² with dimensional tolerance ± 2 %</p>	400	274.5	1000 Nos
iii)	<p>BRM340 : Cement</p>	0.672	0.46116	1 Qntl.
iv)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.28	0.19215	1 Cum
10	<p>Plastering (AR1026) :.6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces (inside) - 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside 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>	-	10.336	Sqm
i)	<p>BRM340 : Cement</p>	0.0271	0.2801056	1 Qntl.

ii)	BRM028 : Screened and washed sharp sand for mortar	0.0075	0.07752	1 Cum
11	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.	-	5.49	Sqm
i)	BRM340 : Cement	0.043	0.23607	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.018	0.09882	1 Cum

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	2.487975	1 Cum	413.05	1027.65807375
2	BRM340	29.6642493767	1 Qntl.	563.767	16723.724878354
3	BRM028	5.71305615	1 Cum	417.99	2388.0003401385
4	BRM044	8.4517152	1 Cum.	2167.11	18315.796527072
5	BRM084	18.838066031746	1Mtr	250.166	4712.6436268978
6	BRM104	0.16804166031746	1Cum.	58573.086	9842.7186213574
7	BRM162	2.36	1 Kg.	90.1	212.636
8	BRM341	3.0975	1 Qntl.	6486.587	20092.2032325
9	BRM056	0.401868	1 Cum.	2595.71	1043.13278628
10	BRM060	0.73421964	1 Cum.	2605.71	1913.1634581444
11	BRM052	1.10132946	1 Cum.	2547.01	2805.0971479146
12	BRMMR0025	0.68625	1 Cum	33	22.64625
13	BRM006	274.5	1000 Nos	5.21032	1430.23284
Total: 80529.653782409					

ROYALTY STATEMENT

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	BRM029	2.487975	1 Cum	112.25	279.27519375
2	BRM028	5.71305615	1 Cum	112.25	641.2905528375

3	BRM044	8.4517152	1 Cum.	259.5	2193.2200944
4	BRM056	0.401868	1 Cum.	259.5	104.284746
5	BRM060	0.73421964	1 Cum.	259.5	190.52999658
6	BRM052	1.10132946	1 Cum.	259.5	285.79499487
Total: 3694.3955784375					

ADDITION COMPONENT

Sl.No.	Item Name	Amount (in Rs.)
1	Provision for Contingency @ Rs. 1370	Rs. 1370
2	Display Citizen Board @ Rs. 919	Rs. 919
Total Addition Component Amount (in Rs.): 2289		

Total Net Amount (in Rs.): 136999.552742