

ESTIMATION DPR							
State	Odisha	District	Sundargarh	Block	Nuagaon	Gram Panchayat	Jahaditoli

Work Code	OD/373/3585/121715/384398/00022941 (Construction Of Market Complex At Jaharitoli)
Project Category	Building

Financial Year	2024-25	Execution Level	PS
Executing Agency	Panchayat Samiti, Nuagaon	Proposal Date	02-01-2025
Date of Commencement	02-09-2025	Date of Completion	24-11-2025
Scheme Name	5th SFC Grant in Aid	Scheme Component Name	Creation of Capital Asset for Revenue Generation
Project Sub-Category	Market Complex	Project Type	New Work
Name of Executant	Sandeep Senapati		

Administrative Approval Details

Approval No.	OD/373/3585/121715/384398/00022941/AS
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Technical Sanction Details

Technical Sanction No.	OD/373/3585/121715/384398/00022941/TS
Fund Sanction No.	32
Fund Sanction Amount (in Rs.)	1000000

ROYALTY 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	-	41.902875	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.	-	30.85875	Cum
i)	BRM029 : Sand for filling and road blinding	1	30.85875	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.	-	12.1005	Cum
i)	BRM340 : Cement	2.29	27.710145	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	5.80824	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	11.61648	1 Cum.

4	<p>Masonry Brick Work (AR0603c) :.Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:6) in foundation and plinth - Brickwork with Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:6) in foundation and plinth 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>	-	17.749215	Cum
i)	<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	7099.686	1000 Nos
ii)	<p>BRM340 : Cement</p>	0.672	11.92747248	1 Qntl.
iii)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.28	4.9697802	1 Cum
5	<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>	-	21.25062	Cum

i)	BRM006 : Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm ² with dimensional tolerance \pm 2 %	400	8500.248	1000 Nos
ii)	BRM340 : Cement	0.672	14.28041664	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.28	5.9501736	1 Cum
6	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)	-	24.522636	Cum
i)	BRM340 : Cement	3.4733	85.1744716188	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	11.0351862	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	8.82814896	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	13.24222344	1 Cum.

7	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	-	55.148	Sqm
i)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.14724516	1Cum.
ii)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.000614	0.033860872	1Mtr.
8	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	-	48.66	Sqm
i)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.0056666666666667	0.27574	1Mtr
ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0051904761904762	0.25256857142857	1Cum.

9	R.C.C. Work (AR0410e) :.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. Lintels Data for 7.8 sqm	-	17.8824	Sqm
i)	BRM094 : Non-sal bullahs 125mm. mean dia of any length.	0.0035384615384615	0.063276184615385	1Mtr.
ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0052948717948718	0.094685015384615	1Cum.
10	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	-	81.3884	Sqm
i)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.0076666666666667	0.623977733333333	1Mtr
ii)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0050222222222222	0.408750631111111	1Cum.

11	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.	-	19.61	Qntl
i)	BRM341 : Steel	1.05	20.5905	1 Qntl.
12	Plastering (AR1027) :.6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside) - 6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces in inside including chipping 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.	-	70.291	Sqm
i)	BRM340 : Cement	0.0372	2.6148252	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.0075	0.5271825	1 Cum

13	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.	-	87.264	Sqm
i)	BRM340 : Cement	0.0358	3.1240512	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	1.30896	1 Cum
14	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.	-	122.064	Sqm
i)	BRM340 : Cement	0.043	5.248752	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.018	2.197152	1 Cum
15	Iron Work(AR1704) ::Iron Doors and windows fixing - Supplying, fitting & fixing of Mild steel and put up for frames & shutters of Doors and windows fixing in position with cost, conveyance, taxes of all materials, labours and T & P required for the work etc. as per direction of Engineer-in-charge.	-	3.5604	Qntl
i)	BRM341 : Steel	1	3.5604	1 Qntl.

16	<p>Other Building Items. (AR1902) :.cement based wall putty (water based) - Finishing surface of walls with cement based wall putty (water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes,labour,T&P,etc.complete. and as per the direction of Engineer in Charge.</p>	-	279.6	Sqm
17	<p>Painting(AR0919) :.Finishing wall One Coat with plastic emulsion paint of approved shades on old work (Inside) - Finishing wall One Coat with plastic emulsion paint of approved shades on old work to give an even shade including all costs of labor, Paint and Brushes required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)</p>	-	192.36	Sqm
i)	BRM140 : Plastic Emulsion paint	0.075	14.427	1 Litre
18	<p>Painting(AR0918Ai) :.Finishing wall one coat with weather coat - Finishing wall one coat with weather coat including all costs of labour, Paint, Primer and Brushes required for the work etc. complete and as per direction of Engineer-in-charge.</p>	-	87.255	Sqm
i)	BRM255 : Weather Coat (I.S.I.)	0.075	6.544125	1 Ltr

19	<p>Other Building Items. (AR1901B) :.Vitrified Tile 600mmx600mm Plain Ivory - Supplying, fitting & fixing Vitrified Tile 600mmx600mm Plain Ivory in floors of size 600mm x 600 mm of approved make conforming IS:13755 laid on 20 mm thick cement mortar(1:4)and filling joints with white cement of approved quality including cost of all materials, taxes, labour, T&P , etc. required for the work all complete as per direction of Engineer-in-charge(for new work only)</p>	-	60.516	Sqm
i)	BRM174 : White Cement.	0.0076	0.4599216	1Qntl
ii)	BRM340 : Cement	0.1074	6.4994184	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	1.270836	1 Cum
iv)	BRM131 : Tiles up to Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15622:2006 (Group-B la) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)	1	60.516	1 Sqm.
20	<p>Concrete (AR0317) :.2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips - 2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips including hoisting and laying in position compacting 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. (new work)</p>	-	72.6044	Sqm
i)	BRM340 : Cement	0.1208	8.77061152	1 Qntl.

ii)	BRM028 : Screened and washed sharp sand for mortar	0.0169	1.22701436	1 Cum
iii)	BRM064 : Granite stone broken chips of 4.7 mm size passing through 6.7 mm sieve (crusher broken.) and retained on 2.36 mm sieve.	0.0169	1.22701436	1 Cum.

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	BRM029	30.85875	1 Cum	56.25	1735.8046875
2	BRM028	34.29452486	1 Cum	56.25	1929.067023375
3	BRM044	11.61648	1 Cum.	329.5	3827.63016
4	BRM006	15599.934	1000 Nos	0.04025	627.8973435
5	BRM060	8.82814896	1 Cum.	329.5	2908.87508232
6	BRM052	13.24222344	1 Cum.	329.5	4363.31262348
7	BRM064	1.22701436	1 Cum.	329.5	404.30123162

Total: 15796.888151795