

ESTIMATION DPR							
State	Odisha	District	Sambalpur	Block	Dhankauda	Gram Panchayat	Bishalkhinda

Work Code	OD/371/3559/121297/381718/00013319 (Construction of Market Complex at Titheipali)
Project Category	Building

Financial Year	2023-24	Execution Level	PS
Executing Agency	Panchayat Samiti, Dhankauda	Proposal Date	08-05-2023
Date of Commencement	30-08-2025	Date of Completion	-
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	ASHRITA TOPNO		

Administrative Approval Details

Approval No.	OD/371/3559/121297/381718/00013319/AS
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Technical Sanction Details

Technical Sanction No.	OD/371/3559/121297/381718/00013319/TS
Fund Sanction No.	12821
Fund Sanction Amount (in Rs.)	1000000

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 (AR0122Ai1) :.Earthwork in all kinds of soil within 50m to 75m 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 - Earthwork in all kinds of soil within 50m to 75m 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 direction of the Engineer-in-charge.</p>	-	20.27055	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>	-	21.92734	Cum
i)	<p>BRM029 : Sand for filling and road blinding</p>	1	21.92734	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>	-	7.88807	Cum
i)	<p>BRM340 : Cement</p>	2.29	18.0636803	1 Qntl.

ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	3.7862736	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	7.5725472	1 Cum.
4	R.C.C. Work (AR0404Aa) :.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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC foundation, footing bases of column, mass concrete, pre-cast slabs etc.)	-	5.19	Cum
i)	BRM340 : Cement	3.4733	18.026427	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.3355	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	1.8684	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	2.8026	1 Cum.

v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.02078595	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.189	0.98091	1Mtr.
5	R.C.C. Work (AR0404Ab) :.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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Plinth band)	-	1.85955	Cum
i)	BRM340 : Cement	3.4733	6.458775015	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.8367975	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	0.669438	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	1.004157	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.0248249925	1Cum.

vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.63	1.1715165	1Mtr.
6	R.C.C. Work (AR0404Ad) :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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Lintels)	-	1.27834	Cum
i)	BRM340 : Cement	3.4733	4.440058322	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.575253	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	0.4602024	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	0.6903036	1 Cum.
v)	BRM094 : Non-sal bullahs 125mm. mean dia of any length.	3.7695	4.81870263	1Mtr.
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0741335	0.09476781839	1Cum.

7	R.C.C. Work (AR0405Ac) :.Reinforced cement concrete work of M-25 grade with 20mm & down grade size black hard crusher broken granite chips - Reinforced cement concrete work of M-25 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. (including centring and shuttering) complete and as per direction of Engineer-in charge. (RCC Beams, Column, Girder & Bressmer etc)	-	3.56573	Cum
i)	BRM340 : Cement	4.03333	14.3817657809	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	1.6045785	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	1.2836628	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	1.9254942	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	4.4196	15.759100308	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.14808120117	1Cum.

8	R.C.C. Work (AR0405Ag) :.Reinforced cement concrete work of M-25 grade with 20mm & down grade size black hard crusher broken granite chips - Reinforced cement concrete work of M-25 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. (including centring and shuttering) complete and as per direction of Engineer-in charge. (RCC Roof slab, lending, balcony, sun shed)	-	4.9387125	Cum
i)	BRM340 : Cement	4.03333	19.919457287625	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.222420625	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	1.7779365	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	2.66690475	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	6.2216	30.72669369	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0502172	0.248008313355	1Cum.

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.	-	16.6065	Qntl
i)	BRM162 : Binding Wire.	0.8	13.2852	1 Kg.
ii)	BRM341 : Steel	1.05	17.436825	1 Qntl.
10	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/cm ² 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.	-	29.83455	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 ± 2 %	400	11933.82	1000 Nos
ii)	BRM340 : Cement	0.672	20.0488176	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.28	8.353674	1 Cum

11	<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>	-	15.477634	Cum
i)	<p>BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK</p>	1	15.477634	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	6191.0536	1000 Nos
iii)	<p>BRM340 : Cement</p>	0.672	10.400970048	1 Qntl.
iv)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.28	4.33373752	1 Cum
12	<p>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.</p>	-	27.9075	Sqm
i)	<p>BRM340 : Cement</p>	0.0372	1.038159	1 Qntl.

ii)	BRM028 : Screened and washed sharp sand for mortar	0.0075	0.20930625	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.	-	132.9515	Sqm
i)	BRM340 : Cement	0.0358	4.7596637	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	1.9942725	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.	-	104.4735	Sqm
i)	BRM340 : Cement	0.043	4.4923605	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.018	1.880523	1 Cum

15	<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>	-	44.6961	Sqm
i)	BRM174 : White Cement.	0.0076	0.33969036	1Qntl
ii)	BRM340 : Cement	0.1074	4.80036114	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	0.9386181	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	44.6961	1 Sqm.

16	<p>Flooring (AR0817aa) :.Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) - Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the Vitrified tiles including rubbing and polishing complete including cost of precast tiles.</p>	-	9.334	Sqm
i)	<p>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)</p>	1	9.334	1 Sqm.
ii)	<p>BRMMR0027 : Wax Polish</p>	1	9.334	1 Sqm
iii)	<p>BRM340 : Cement</p>	0.1375	1.283425	1 Qntl.
iv)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.015	0.14001	1 Cum

17	Flooring (AR0816j) :.Fixing Chequered Tiles in floor , treads or steps and landing on a 25mm thick bed of cement mortar 1:1 - Fixing Chequered Tiles in floor , treads or steps and landing on a 25mm thick bed of cement mortar 1:1 (1cement: 1sand) jointed with neat cement slurry mixed with pigment to match the shades of the Chequered tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge.	-	7.5525	Sqm
i)	BRM134 : Chequered Tiles.	1	7.5525	1 Sqm.
ii)	BRMMR0027 : Wax Polish	1	7.5525	1 Sqm
iii)	BRM340 : Cement	0.2737	2.06711925	1 Qntl.
iv)	BRM028 : Screened and washed sharp sand for mortar	0.013	0.0981825	1 Cum
18	Flooring (AR0817ap) :.Fixing Chequered Tiles in dados skirting and risers of steps on 12mm thick cement plaster (1:3) - Fixing Chequered Tiles in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the Chequered tiles including rubbing and polishing complete including cost of precast tiles.	-	4.5315	Sqm
i)	BRM134 : Chequered Tiles.	1	4.5315	1 Sqm.
ii)	BRMMR0027 : Wax Polish	1	4.5315	1 Sqm
iii)	CON026 : cement (Other way)	0.1375	0.62308125	1000 kg
iv)	BRM340 : Cement	0.1375	0.62308125	1 Qntl.
v)	BRM028 : Screened and washed sharp sand for mortar	0.015	0.0679725	1 Cum

19	Roofing (AR1132) :.Supplying, feeting & fixing of G.C.I. Sheet (0.30mm thick) in roof drilling hole in wind ties - Supplying, fitting & fixing of G.C.I. Sheet (0.30mm thick) in roof drilling hole in wind ties including fixing of ridges valleys wind ties etc. including cost of fitting, Labour and material etc. complete as per direction of Engineer-in-Charge	-	21.147	Sqm
i)	BRM149 : G.C.I. Sheet 0.30mm thick	1	21.147	1 Sqm
20	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.	-	6.05583	Qntl
i)	BRM341 : Steel	1	6.05583	1 Qntl.
21	Painting(AR0903ia) :.Painting two coats of enamel paint with a coat of wood primer in outer surface paint (Outside) - Painting two coats of enamel paint with a coat of wood primer in outer surface paint including all costs of labour, Paint, Primer, brushes and putty required for the work etc. complete and as per direction of Engineer-in-charge.(Outside)	-	34.7895	Sqm
i)	BRM141 : Enamel paint	0.125	4.3486875	1 Litre
ii)	BRM138 : Wood Primer	0.075	2.6092125	1 Litre

22	Painting(AR0922) :.Finishing wall two coats with distemper of approved shades on new work (Inside) - Finishing wall two coats with distemper of approved shades on new 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)	-	113.776	Sqm
i)	BRM142 : Distemper	0.25	28.444	1 Kg.
23	Painting(AR0918f) :.Finishing wall with two coat weather coat paint of approved shade in the outer surface of old work(Outside) - Finishing wall with two coat weather coat paint of approved shade in the outer surface of old work to give an even shade including all costs of labour, Paint, Brushes, and putty required for the work, etc. complete and as per direction of Engineer-in-charge. (Outside)	-	132.9515	Sqm
i)	BRM255 : Weather Coat (I.S.I.)	0.125	16.6189375	1 Ltr
24	Earth Work (AR0115a) :.Filling foundation and plinth with crusher dust well watered and rammed - Filling foundation and plinth with crusher dust 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.	-	51.70947	Cum
i)	BRM026 : Stone screened Dust passing through 2.36 mm sieve and retained on 0.075 mm sieve	1	51.70947	1 Cum

25	Earth Work (AR0114a) :-Filling of foundation with escalated earth - Filling in foundation and plinth with excavated materials in Hard soil / Gravelly soil including watering and ramming as directed by the Engineer-in-charge.	-	44.6269	Cum
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SI.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	21.92734	1 Cum	931.91	20434.3074194
2	BRM340	130.80412119353	1 Qntl.	580.622	75947.750455627
3	BRM028	29.377119595	1 Cum	938.79	27578.94610459
4	BRM044	7.5725472	1 Cum.	1551.51	11748.882706272
5	BRM060	6.0596397	1 Cum.	2020.18	12241.562929146
6	BRM052	9.08945955	1 Cum.	1983.8	18031.66985529
7	BRM104	0.536468275415	1Cum.	58620.646	31448.116863333
8	BRM092	2.1524265	1Mtr.	276.666	595.503230049
9	BRM094	4.81870263	1Mtr.	287.666	1386.1769107616
10	BRM084	46.485793998	1Mtr	297.726	13840.029503849
11	BRM162	13.2852	1 Kg.	90	1195.668
12	BRM341	23.492655	1 Qntl.	6740.862	158360.74536861
13	BRM006	18124.8736	1000 Nos	5.4818	99356.93210048
14	BRMMR0025	15.477634	1 Cum	33	510.761922
15	BRM174	0.33969036	1Qntl	2042.622	693.85900252392
16	BRM131	54.0301	1 Sqm.	664.5102781	35903.556776771
17	BRMMR0027	21.418	1 Sqm	8.5	182.053
18	BRM134	12.084	1 Sqm.	254.75	3078.399
19	CON026	0.62308125	1000 kg	0	0
20	BRM149	21.147	1 Sqm	318.608172	6737.607013284
21	BRM141	4.3486875	1 Litre	205.76622	894.81298883625
22	BRM138	2.6092125	1 Litre	155.50622	405.74877305175
23	BRM142	28.444	1 Kg.	70.52622	2006.04780168
24	BRM255	16.6189375	1 Ltr	195.21622	3244.2861591662
25	BRM026	51.70947	1 Cum	737.84	38153.3153448

Total: 563976.73922952