

ESTIMATION DPR							
State	Odisha	District	Jharsuguda	Block	Jharsuguda	Gram Panchayat	H.Katapalli

Work Code	OD/357/3404/118520/381114/00013551 (Construction of Market complex at Boxi chowk)
Project Category	Building

Financial Year	2020-21	Execution Level	PS
Executing Agency	Panchayat Samiti, Jharsuguda	Proposal Date	02-11-2023
Date of Commencement	22-07-2025	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	Fagu Murmu Transferred		

Administrative Approval Details

Approval No.	OD/357/3404/118520/381114/00013551/AS
---------------------	---------------------------------------

Technical Sanction Details

Technical Sanction No.	OD/357/3404/118520/381114/00013551/TS
Fund Sanction No.	1111
Fund Sanction Amount (in Rs.)	1000000

MATERIAL STATEMENT

Sl.No.	Activity Name/Material	Qty/unit (B=Analysis Basic Qty/Header Unit)	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	-	48.7764	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.	-	22.0524	Cum
i)	BRM029 : Sand for filling and road blinding	1	22.0524	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.	-	10.8264	Cum
i)	BRM340 : Cement	2.29	24.792456	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	5.196672	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	10.393344	1 Cum.

4	<p>Masonry Brick Work (AR0602c) :.Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:4) in foundation and plinth - Brickwork with Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:4) 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>	-	10.86105	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	4344.42	1000 Nos
ii)	<p>BRM340 : Cement</p>	1	10.86105	1 Qntl.
iii)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.28	3.041094	1 Cum
5	<p>Masonry Brick Work (AR0603bi) :.Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure - Brickwork with Flyash Bricks of size (25cm x 12cm 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>	-	18.28477	Cum

i)	BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1	18.28477	1 Cum
ii)	BRM340 : Cement	0.672	12.28736544	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.28	5.1197356	1 Cum
iv)	BRM005 : Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance \pm 2 %	350	6399.6695	1000 Nos
6	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.)	-	7.8204	Cum
i)	BRM340 : Cement	3.4733	27.16259532	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	3.51918	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	2.815344	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	4.223016	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.031320702	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.189	1.4780556	1Mtr.
7	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)	-	2.789417	Cum
i)	BRM340 : Cement	3.4733	9.6884820661	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	1.25523765	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	1.00419012	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	1.50628518	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.03723871695	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.63	1.75733271	1Mtr.
8	R.C.C. Work (AR0404Ac) :.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 Beams, Column, Girder & Bressmer etc)	-	4.35643	Cum
i)	BRM340 : Cement	3.4733	15.131188319	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	1.9603935	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	1.5683148	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	2.3524722	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	4.4196	19.253678028	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.18091818147	1Cum.
9	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)	-	1.708072	Cum
i)	BRM340 : Cement	3.4733	5.9326464776	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.7686324	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	0.61490592	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	0.92235888	1 Cum.
v)	BRM094 : Non-sal bullahs 125mm. mean dia of any length.	3.7695	6.438577404	1Mtr.
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0741335	0.126625355612	1Cum.
10	R.C.C. Work (AR0404Bg) ∴Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips(RCC Roof slab, lending, balcony, sun shed)(Nominal mix as per IS-456, Table-9). - Reinforced cement concrete 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. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Roof slab, lending, balcony, sun shed)(Nominal mix as per IS-456, Table-9).	-	8.5102075	Cum

i)	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	3.0636747	1 Cum.
ii)	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	4.59551205	1 Cum.
iii)	BRM340 : Cement	3.4733	29.55850370975	1 Qntl.
iv)	BRM028 : Screened and washed sharp sand for mortar	0.45	3.829593375	1 Cum
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	6.2216	52.947106982	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0502172	0.427358792069	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.	-	26	Qntl
i)	BRM162 : Binding Wire.	0.8	20.8	1 Kg.
ii)	BRM341 : Steel	1.05	27.3	1 Qntl.

12	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.	-	120.4157	Sqm
i)	BRM340 : Cement	0.043	5.1778751	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.018	2.1674826	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.	-	143.4889	Sqm
i)	BRM340 : Cement	0.0358	5.13690262	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	2.1523335	1 Cum

14	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.	-	84.4555	Sqm
i)	BRM340 : Cement	0.0372	3.1417446	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.0075	0.63341625	1 Cum
15	Flooring (AR0802ii) :.2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips - 2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips including punning incl. cost, conveyance & royalty of materials as per direction of Engineer-in-charge.	-	59.4192	Sqm
i)	BRM340 : Cement	0.0858	5.09816736	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.012	0.7130304	1 Cum
iii)	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)	0.023	1.3666416	1 Cum.

16	Painting(AR0901d) :.Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces (Inner surface) - Priming one coat with inner surface primer of approved quality water-bound primer over plastering surfaces including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.	-	523.37	Sqm
i)	BRM253 : Wall cement primer (I.S.I.) Water bound	0.084	43.96308	1 Ltr
17	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)	-	148	Sqm
i)	BRM142 : Distemper	0.25	37	1 Kg.
18	Painting(AR0901b) :.Priming one coat in inner surface with primer of approved quality over iron work. - Priming one coat in inner surface with primer of approved quality over iron work including cost conveyance, taxes of all materials, labor and T&P required for the work complete as per direction of the Engineer-in-charge.	-	35.9916	Sqm
i)	BRM137 : Red oxide Primer	0.054	1.9435464	1 Litre

19	Painting(AR0903i) :.Painting two coats of enamel paint in outer surface paint (outer surface) - Painting two coats of enamel paint in outer surface paint including all costs of labour, Paint and brushes required for the work etc. complete and as per direction of Engineer-in-charge.(Outside)	-	8.175	Sqm
i)	BRM141 : Enamel paint	0.125	1.021875	1 Litre
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.	-	4.45	Qntl
i)	BRM341 : Steel	1	4.45	1 Qntl.

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	22.0524	1 Cum	381.07	8403.508068
2	BRM340	153.96897701245	1 Qntl.	558.637	86012.767411304
3	BRM028	30.356801275	1 Cum	389.07	11810.920672064
4	BRM044	10.393344	1 Cum.	1700.92	17678.24667648
5	BRM006	4344.42	1000 Nos	5.411108	23508.12581736
6	BRMMR0025	18.28477	1 Cum	33	603.39741
7	BRM005	6399.6695	1000 Nos	6.2128	39759.8666696
8	BRM060	9.06642954	1 Cum.	2124.34	19260.178929004
9	BRM052	13.59964431	1 Cum.	2087.96	28395.513333508
10	BRM104	0.803461748101	1Cum.	58573.086	47061.23406923
11	BRM092	3.23538831	1Mtr.	229.106	741.24687415086
12	BRM084	72.20078501	1Mtr	250.166	18062.181582812
13	BRM094	6.438577404	1Mtr.	240.106	1545.9410661648
14	BRM162	20.8	1 Kg.	90.1	1874.08
15	BRM341	31.75	1 Qntl.	6537.707	207572.19725
16	BRM057	1.3666416	1 Cum.	1790.86	2447.463775776

17	BRM253	43.96308	1 Ltr	159.27787	7002.3457410396
18	BRM142	37	1 Kg.	70.34787	2602.87119
19	BRM137	1.9435464	1 Litre	142.94787	277.82581812617
20	BRM141	1.021875	1 Litre	205.58787	210.08510465625
					Total: 524829.99745928