

ESTIMATION DPR							
State	Odisha	District	Sambalpur	Block	Jujomura	Gram Panchayat	Lipinda

Work Code	OD/371/3561/121345/382174/00084615 (Construction of Market Complex at Lipinda)
Project Category	Building

Financial Year	2021-22	Execution Level	PS
Executing Agency	Panchayat Samiti, Jujomura	Proposal Date	10-05-2021
Date of Commencement	25-03-2026	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	PRAVASH CHANDRA MISHRA		

Administrative Approval Details

Approval No.	OD/371/3561/121345/382174/00084615/AS
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Technical Sanction Details

Technical Sanction No.	OD/371/3561/121345/382174/00084615/TS
Fund Sanction No.	8055
Fund Sanction Amount (in Rs.)	1000000

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	-	29.0371086	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.	-	26.80291308	Cum
i)	BRM029 : Sand for filling and road blinding	1	26.80291308	1 Cum
3	Concrete (AR0309) :.Cement Concrete (1:3:6) with 12mm size hard granite (Crusher Broken) chips - Cement Concrete (1:3:6) with 12mm size hard granite (Crusher Broken) chips 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 as per specifaion and direction of Engineer-in charge.	-	10.440510348	Cum
i)	BRM340 : Cement	2.15	22.4470972482	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	4.6982296566	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	9.3964593132	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>	-	20.31836588	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	8127.346352	1000 Nos
ii)	<p>BRM340 : Cement</p>	0.672	13.65394187136	1 Qntl.
iii)	<p>BRM028 : Screened and washed sharp sand for mortar</p>	0.28	5.6891424464	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>	-	23.54400336	Cum

i)	BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1	23.54400336	1 Cum
ii)	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 %	400	9417.601344	1000 Nos
iii)	BRM340 : Cement	0.672	15.82157025792	1 Qntl.
iv)	BRM028 : Screened and washed sharp sand for mortar	0.28	6.5923209408	1 Cum
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.)	-	4.77309113472	Cum
i)	BRM340 : Cement	3.4733	16.578377438223	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.147891010624	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	1.7183128084992	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	2.5774692127488	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.019116229994554	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.189	0.90211422446208	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)	-	4.937742	Cum
i)	BRM340 : Cement	3.4733	17.1502592886	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.2219839	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	1.77758712	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	2.66638068	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.0659188557	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.63	3.11077746	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)	-	5.021418144	Cum
i)	BRM340 : Cement	3.4733	17.440891639555	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.2596381648	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	1.80771053184	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	2.71156579776	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	4.4196	22.192659629222	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.20853447410218	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)	-	1.76590644	Cum
i)	BRM340 : Cement	3.4733	6.133522838052	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.794657898	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	0.6357263184	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	0.9535894776	1 Cum.
v)	BRM094 : Non-sal bullahs 125mm. mean dia of any length.	3.7695	6.65658432558	1Mtr.
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0741335	0.13091282506974	1Cum.
10	R.C.C. Work (AR0404Ag) :.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 Roof slab, landing, balcony, sun shade)	-	7.4756352	Cum
i)	BRM340 : Cement	3.4733	25.96512374016	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	3.36403584	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	2.691228672	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	4.036843008	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	6.2216	46.51041196032	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0502172	0.37540546796544	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.	-	21.271	Qntl
i)	BRM162 : Binding Wire.	0.8	17.0168	1 Kg.
ii)	BRM341 : Steel	1.05	22.33455	1 Qntl.

12	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.	-	121.95841325	Sqm
i)	BRM340 : Cement	0.0358	4.36611119435	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	1.82937619875	1 Cum
13	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.	-	19.230921	Sqm
i)	BRM340 : Cement	0.0372	0.7153902612	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.0075	0.1442319075	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.	-	143.41900625	Sqm
i)	BRM340 : Cement	0.043	6.16701726875	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.018	2.5815421125	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.	-	45.882469125	Sqm
i)	BRM340 : Cement	0.0858	3.936715850925	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.012	0.5505896295	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	1.055296789875	1 Cum.

16	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.	-	6.62025	Qntl
i)	BRM341 : Steel	1	6.62025	1 Qntl.
17	Painting(AR0903b) :.Painting two coats of enamel paint with a coat of red oxide primer over iron surface - Painting two coats of enamel paint with a coat of red oxide primer over iron surface including all costs of labour, Paint, Primer, brushes and putty required for the work etc. complete and as per direction of Engineer-in-charge.	-	28.532833875	Sqm
i)	BRM137 : Red oxide Primer	0.054	1.54077302925	1 Litre
ii)	BRM141 : Enamel paint	0.125	3.566604234375	1 Litre
18	Painting(AR0918ca) :.Finishing wall two coats with weather coat with one coat oilbound Primer - Finishing wall surface two coats with weather coat with one coat oilbound Primer 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)	-	141.18933425	Sqm
i)	BRM255 : Weather Coat (I.S.I.)	0.125	17.64866678125	1 Ltr
ii)	BRM252 : Wall cement primer (I.S.I.) Oil bound	0.084	11.859904077	1 Ltr

19	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)	-	143.41900625	Sqm
i)	BRM142 : Distemper	0.25	35.8547515625	1 Kg.

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	26.80291308	1 Cum	411.11	11018.945596319
2	BRM340	150.3760188973	1 Qntl.	596.512	89701.099784463
3	BRM028	32.873639705474	1 Cum	873.69	28721.370274276
4	BRM056	9.3964593132	1 Cum.	1867.93	17551.928244906
5	BRM006	17544.947696	1000 Nos	5.83526	102379.33149256
6	BRMMR0025	23.54400336	1 Cum	33	776.95211088
7	BRM060	8.6305654507392	1 Cum.	1889.98	16311.596090588
8	BRM052	12.945848176109	1 Cum.	1853.6	23996.424179235
9	BRM104	0.79988785283191	1Cum.	58573.086	46851.899994279
10	BRM092	4.0128916844621	1Mtr.	229.106	919.37756226037
11	BRM084	68.703071589542	1Mtr	250.166	17187.172607269
12	BRM094	6.65658432558	1Mtr.	240.106	1598.2858360777
13	BRM162	17.0168	1 Kg.	90	1531.512
14	BRM341	28.9548	1 Qntl.	6459.252	187026.3498096
15	BRM057	1.055296789875	1 Cum.	1551.31	1637.092463101
16	BRM137	1.54077302925	1 Litre	143.24512	220.70821746768
17	BRM141	3.566604234375	1 Litre	205.88512	734.31074078681
18	BRM255	17.64866678125	1 Ltr	195.33512	3447.4044435555
19	BRM252	11.859904077	1 Ltr	126.04512	1494.883032574
20	BRM142	35.8547515625	1 Kg.	70.64512	2532.963226703
Total: 555639.6077069					