

ESTIMATION DPR							
<b>State</b>	Odisha	<b>District</b>	Sambalpur	<b>Block</b>	Jujomura	<b>Gram Panchayat</b>	Lipinda

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

<b>Financial Year</b>	2021-22	<b>Execution Level</b>	PS
<b>Executing Agency</b>	Panchayat Samiti, Jujomura	<b>Proposal Date</b>	10-05-2021
<b>Date of Commencement</b>	25-03-2026	<b>Date of Completion</b>	-
<b>Scheme Name</b>	5th SFC Grant in Aid	<b>Scheme Component Name</b>	Creation of Capital Asset for Revenue Generation
<b>Project Sub-Category</b>	Market Complex	<b>Project Type</b>	New Work
<b>Name of Executant</b>	PRAVASH CHANDRA MISHRA		

### Administrative Approval Details

<b>Approval No.</b>	OD/371/3561/121345/382174/00084615/AS
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### Technical Sanction Details

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

### ROYALTY STATEMENT

Sl.No.	Activity Name/Material	Qty/unit (B=Analysis Basic Qty/Header Unit)	Quantity (Meaurement Qty)	Unit
1	<b>Earth Work (AR0102aa) :.Earth work in hard soil or gravelly soil foundation &amp; plinth within 50m. Initial lead and 1.5m initial lift - Earth work in hard soil or gravelly soil foundation &amp; 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</b>	-	<b>29.0371086</b>	Cum

2	<b>Earth Work (AR0115)</b> :.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.	-	<b>26.80291308</b>	Cum
i)	<b>BRM029</b> : Sand for filling and road blinding	1	26.80291308	1 Cum
3	<b>Concrete (AR0309)</b> :.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.	-	<b>10.440510348</b>	Cum
i)	<b>BRM340</b> : Cement	2.15	22.4470972482	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	4.6982296566	1 Cum
iii)	<b>BRM056</b> : 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><b>Masonry Brick Work (AR0603c) :.Flyash Bricks of size (23cm x 11cm x 8cm) in cement mortar (1:6) in foundation and plinth</b>  - 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<sup>2</sup> 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&amp;P required for the work, etc. complete and as per direction of Engineer-in-charge.</p>	-	20.31836588	Cum
i)	<p><b>BRM006</b> : Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm<sup>2</sup> with dimensional tolerance ± 2 %</p>	400	8127.346352	1000 Nos
ii)	<p><b>BRM340</b> : Cement</p>	0.672	13.65394187136	1 Qntl.
iii)	<p><b>BRM028</b> : Screened and washed sharp sand for mortar</p>	0.28	5.6891424464	1 Cum
5	<p><b>Masonry Brick Work (AR0603ci) :.Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure -</b>  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/cm<sup>2</sup> 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&amp;P required for the work, etc. complete and as per direction of Engineer-in-charge.</p>	-	23.54400336	Cum

i)	<b>BRM006</b> : Fly ash bricks of 23 Cm. x 11 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm$ 2 %	400	9417.601344	1000 Nos
ii)	<b>BRM340</b> : Cement	0.672	15.82157025792	1 Qntl.
iii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.28	6.5923209408	1 Cum
6	<b>R.C.C. Work (AR0404Aa)</b> :.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.)	-	<b>4.77309113472</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	16.578377438223	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	2.147891010624	1 Cum
iii)	<b>BRM060</b> : 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)	<b>BRM052</b> : 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)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.019116229994554	1Cum.
vi)	<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.000921	0.0043960169350771	1Mtr.
7	<b>R.C.C. Work (AR0404Ab)</b> :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)	-	<b>4.937742</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	17.1502592886	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	2.2219839	1 Cum
iii)	<b>BRM060</b> : 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)	<b>BRM052</b> : 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)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.0659188557	1Cum.
vi)	<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.00307	0.01515886794	1Mtr.
8	<b>R.C.C. Work (AR0404Ac)</b> :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)	-	<b>5.021418144</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	17.440891639555	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	2.2596381648	1 Cum
iii)	<b>BRM060</b> : 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)	<b>BRM052</b> : 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)	<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.045339	0.22766607723082	1Mtr
vi)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.20853447410218	1Cum.
9	<b>R.C.C. Work (AR0404Ad)</b> :.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)	-	<b>1.76590644</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	6.133522838052	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	0.794657898	1 Cum
iii)	<b>BRM060</b> : 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)	<b>BRM052</b> : 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)	<b>BRM094</b> : Non-sal bullahs 125mm. mean dia of any length.	0.049542	0.08748653685048	1Mtr.
vi)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0741335	0.13091282506974	1Cum.
10	<b>R.C.C. Work (AR0404Ag)</b> :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)	-	<b>7.4756352</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	25.96512374016	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	3.36403584	1 Cum
iii)	<b>BRM060</b> : 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)	<b>BRM052</b> : 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)	<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.076659	0.5730747187968	1Mtr
vi)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0502172	0.37540546796544	1Cum.
11	<b>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 -</b> 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.	-	<b>21.271</b>	Qntl
i)	<b>BRM341</b> : Steel	1.05	22.33455	1 Qntl.
12	<b>Plastering (AR1004) :.12mm thick cement plaster (1:6) over Brick work in inside -</b> 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.	-	<b>121.95841325</b>	Sqm
i)	<b>BRM340</b> : Cement	0.0358	4.36611119435	1 Qntl.

ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.015	1.82937619875	1 Cum
13	<b>Plastering (AR1027) :.6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside)</b> - 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.	-	<b>19.230921</b>	Sqm
i)	<b>BRM340</b> : Cement	0.0372	0.7153902612	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.0075	0.1442319075	1 Cum
14	<b>Plastering (AR1014) :.16mm thick cement Plaster in CM (1:6) over brick work in inside.</b> - 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.	-	<b>143.41900625</b>	Sqm
i)	<b>BRM340</b> : Cement	0.043	6.16701726875	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.018	2.5815421125	1 Cum

15	<b>Flooring (AR0802ii)</b> :.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.	-	<b>45.882469125</b>	Sqm
i)	<b>BRM340</b> : Cement	0.0858	3.936715850925	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.012	0.5505896295	1 Cum
iii)	<b>BRM057</b> : 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	<b>Iron Work(AR1704)</b> :.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.	-	<b>6.62025</b>	Qntl
i)	<b>BRM341</b> : Steel	1	6.62025	1 Qntl.
17	<b>Painting(AR0903b)</b> :.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.	-	<b>28.532833875</b>	Sqm
i)	<b>BRM137</b> : Red oxide Primer	0.054	1.54077302925	1 Litre

ii)	<b>BRM141</b> : Enamel paint	0.125	3.566604234375	1 Litre
18	<b>Painting(AR0918ca)</b> :.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)	-	<b>141.18933425</b>	Sqm
i)	<b>BRM255</b> : Weather Coat (I.S.I.)	0.125	17.64866678125	1 Ltr
ii)	<b>BRM252</b> : Wall cement primer (I.S.I.) Oil bound	0.084	11.859904077	1 Ltr
19	<b>Painting(AR0922)</b> :.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)	-	<b>143.41900625</b>	Sqm
i)	<b>BRM142</b> : Distemper	0.25	35.8547515625	1 Kg.

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	<b>BRM029</b>	26.80291308	1 Cum	76.25	2043.72212235
2	<b>BRM028</b>	32.873639705474	1 Cum	76.25	2506.6150275424
3	<b>BRM056</b>	9.3964593132	1 Cum.	224.3	2107.6258239508
4	<b>BRM060</b>	8.6305654507392	1 Cum.	224.3	1935.8358306008
5	<b>BRM052</b>	12.945848176109	1 Cum.	224.3	2903.7537459012
6	<b>BRM057</b>	1.055296789875	1 Cum.	224.3	236.70306996896

**Total: 11734.255620314**