

ESTIMATION DPR							
State	Odisha	District	Kalahandi	Block	Lanjigarh	Gram Panchayat	Malijubanga

Work Code	OD/358/3418/118805/423082/00057302 (CONSTRUCTION OF MARKET COMPLEX AT MALIJUBANG)						
Project Category	Building						

Financial Year	2023-24	Execution Level	PS
Executing Agency	Panchayat Samiti, Lanjigarh	Proposal Date	12-06-2023
Date of Commencement	24-11-2025	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	RANJAN KUMAR DASH		

Administrative Approval Details

Approval No.	OD/358/3418/118805/423082/00057302/AS
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Technical Sanction Details

Technical Sanction No.	OD/358/3418/118805/423082/00057302/TS
Fund Sanction No.	12487
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	-	25.9524	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.	-	37.65645	Cum
i)	BRM029 : Sand for filling and road blinding	1	37.65645	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.	-	22.72986	Cum
i)	BRM340 : Cement	2.29	52.0513794	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.48	10.9103328	1 Cum
iii)	BRM044 : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	21.8206656	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.)	-	6.3118	Cum
i)	BRM340 : Cement	3.4733	21.92277494	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.84031	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	2.272248	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	3.408372	1 Cum.
v)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.025278759	1Cum.
vi)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.189	1.1929302	1Mtr.

5	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)	-	4.938245	Cum
i)	BRM340 : Cement	3.4733	17.1520063585	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	2.22221025	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	1.7777682	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	2.6666523	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	4.4196	21.825067602	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.205080376605	1Cum.

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)	-	0.871125	Cum
i)	BRM340 : Cement	3.4733	3.0256784625	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	0.39200625	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	0.313605	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	0.4704075	1 Cum.
v)	BRM094 : Non-sal bullahs 125mm. mean dia of any length.	3.7695	3.2837056875	1Mtr.
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0741335	0.0645795451875	1Cum.

7	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)	-	7.0184	Cum
i)	BRM340 : Cement	3.4733	24.37700872	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.45	3.15828	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	2.526624	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	3.789936	1 Cum.
v)	BRM084 : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	6.2216	43.66567744	1Mtr
vi)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0502172	0.35244439648	1Cum.

8	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	-	81.36	Sqm
i)	BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.2172312	1Cum.
ii)	BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.126	10.25136	1Mtr.
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.	-	21	Qntl
i)	BRM162 : Binding Wire.	0.8	16.8	1 Kg.
ii)	BRM341 : Steel	1.05	22.05	1 Qntl.

10	Masonry Brick Work (AR0603di) :C.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:4) in superstructure - Brickwork with C.B. Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure 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.	-	17.287812	Cum
i)	BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1	17.287812	1 Cum
ii)	BRM001 : Well burnt clamp burnt bricks (25 Cm. x 12Cm. x 8Cm.) having crushing strength not less than 35 Kg./Cm ² with dimensional tolerance ± 8 percent.	350	6050.7342	1000 Nos
iii)	BRM340 : Cement	1	17.287812	1 Qntl.
iv)	BRM028 : Screened and washed sharp sand for mortar	0.28	4.84058736	1 Cum
11	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.	-	109.7522	Sqm
i)	BRM340 : Cement	0.0358	3.92912876	1 Qntl.

ii)	BRM028 : Screened and washed sharp sand for mortar	0.015	1.646283	1 Cum
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.	-	116.8272	Sqm
i)	BRM340 : Cement	0.043	5.0235696	1 Qntl.
ii)	BRM028 : Screened and washed sharp sand for mortar	0.018	2.1028896	1 Cum
13	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)	-	36.996	Sqm
i)	BRM174 : White Cement.	0.0076	0.2811696	1Qntl
ii)	BRM340 : Cement	0.1074	3.9733704	1 Qntl.
iii)	BRM028 : Screened and washed sharp sand for mortar	0.021	0.776916	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 Ia) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)	1	36.996	1 Sqm.
14	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.	-	12.6765	Sqm
i)	BRM134 : Chequered Tiles.	1	12.6765	1 Sqm.
ii)	BRMMR0027 : Wax Polish	1	12.6765	1 Sqm
iii)	BRM340 : Cement	0.2737	3.46955805	1 Qntl.
iv)	BRM028 : Screened and washed sharp sand for mortar	0.013	0.1647945	1 Cum
15	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.	-	260.0744	Sqm
i)	BRMMR0038 : Cement based putty	0.8	208.05952	kg

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.	-	155.5284	Sqm
i)	BRM253 : Wall cement primer (I.S.I.) Water bound	0.084	13.0643856	1 Ltr
17	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)	-	103.0544	Sqm
i)	BRM255 : Weather Coat (I.S.I.)	0.125	12.8818	1 Ltr
ii)	BRM252 : Wall cement primer (I.S.I.) Oil bound	0.084	8.6565696	1 Ltr
18	Painting(AR0920) :.Finishing wall two coats with plastic emulsion paint of approved shades on new work (Inside) - Finishing wall two coats with plastic emulsion paint 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)	-	155.5284	Sqm

i)	BRM140 : Plastic Emulsion paint	0.125	19.44105	1 Litre
19	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.	-	7	Qntl
i)	BRM341 : Steel	1	7	1 Qntl.
20	Painting(AR0901bi) :.Priming one coat in outer surface with primer of approved quality over iron work - Priming one coat in outer 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.	-	30.1401	Sqm
i)	BRM137 : Red oxide Primer	0.054	1.6275654	1 Litre
21	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)	-	30.1401	Sqm
i)	BRM141 : Enamel paint	0.125	3.7675125	1 Litre

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	BRM029	37.65645	1 Cum	803.65	30262.6060425
2	BRM340	152.212286691	1 Qntl.	652.772	99359.918807857
3	BRM028	29.05460976	1 Cum	1398.79	40641.29758619
4	BRM044	21.8206656	1 Cum.	1857.16	40524.467325696

5	BRM060	6.8902452	1 Cum.	2256.91	15550.663294332
6	BRM052	10.3353678	1 Cum.	2241.91	23170.964424498
7	BRM104	0.8646142772725	1Cum.	58573.086	50643.12641951
8	BRM092	11.4442902	1Mtr.	229.106	2621.9555505612
9	BRM084	65.490745042	1Mtr	250.166	16383.557724177
10	BRM094	3.2837056875	1Mtr.	240.106	788.43743780287
11	BRM162	16.8	1 Kg.	90.1	1513.68
12	BRM341	29.05	1 Qntl.	5332.522	154909.7641
13	BRMMR0025	17.287812	1 Cum	33	570.497796
14	BRM001	6050.7342	1000 Nos	5.243335	31726.026406557
15	BRM174	0.2811696	1Qntl	2095.472	589.1830240512
16	BRM131	36.996	1 Sqm.	675.4086121	24987.417013252
17	BRM134	12.6765	1 Sqm.	254.75	3229.338375
18	BRMMR0027	12.6765	1 Sqm	8.5	107.75025
19	BRMMR0038	208.05952	kg	30	6241.7856
20	BRM253	13.0643856	1 Ltr	159.81292	2087.857610742
21	BRM255	12.8818	1 Ltr	190.28292	2451.186518856
22	BRM252	8.6565696	1 Ltr	126.28292	1093.1768862712
23	BRM140	19.44105	1 Litre	250.12292	4862.652193866
24	BRM137	1.6275654	1 Litre	143.48292	233.52783608297
25	BRM141	3.7675125	1 Litre	206.12292	776.5706776365
					Total: 555327.40890144