

ESTIMATION DPR							
State	Odisha	District	Mayurbhanj	Block	Kuliana	Gram Panchayat	Gangraj

Work Code	OD/365/3500/120248/389427/00049788 (Construction of New Toilet at Dahigan)
Project Category	Building

Financial Year	2023-24	Execution Level	PS
Executing Agency	Panchayat Samiti, Kuliana	Proposal Date	05-07-2024
Date of Commencement	06-09-2025	Date of Completion	23-09-2025
Scheme Name	SFC Devolution of Fund	Scheme Component Name	5TH SFC DEVOLUTION GRANT TO PANCHAYAT SAMITI
Project Sub-Category	Elementary School	Project Type	New Work
Name of Executant	SRIMANTA SETHI		

### Administrative Approval Details

Approval No.	OD/365/3500/120248/389427/00049788/AS
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### Technical Sanction Details

Technical Sanction No.	OD/365/3500/120248/389427/00049788/TS
Fund Sanction No.	4870
Fund Sanction Amount (in Rs.)	150000

### 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	-	17.77229999055	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.	-	2.30886	Cum
i)	<b>BRM029</b> : Sand for filling and road blinding	1	2.30886	1 Cum
3	<b>Concrete (AR0304)</b> :.Cement concrete (1:4:8) with 4 cm. hard granite(Crusher Broken) metal - Cement concrete (1:4:8) 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.	-	1.77182	Cum
i)	<b>BRM044</b> : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1.7009472	1 Cum.
ii)	<b>BRM340</b> : Cement	1.72	3.0475304	1 Qntl.
iii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	0.8504736	1 Cum

4	<p><b>Masonry Brick Work (AR0603b) :.Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth</b></p> <p>- Brickwork with Flyash Bricks of size (25cm x 12cm 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 <math>\pm 8</math> 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>	-	4.12425	Cum
i)	<b>BRM340</b> : Cement	0.672	2.771496	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.28	1.15479	1 Cum
iii)	<b>BRM005</b> : Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm <sup>2</sup> with dimensional tolerance $\pm 2$ %	350	1443.4875	1000 Nos

5	<p><b>R.C.C. Work (AR0404Aa)</b>  <b>∴Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips -</b>  Reinforced cement concrete work of M-20 grade with 20mm &amp; 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&amp;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.)</p>	-	<b>1.5195</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	5.27767935	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	0.683775	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	0.54702	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	0.82053	1 Cum.
v)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.0060855975	1Cum.
vi)	<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.189	0.2871855	1Mtr.

6	<b>R.C.C. Work (AR0404Ab)</b> <b>:.Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips -</b> 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>0.323</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	1.1218759	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	0.14535	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	0.11628	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	0.17442	1 Cum.
v)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.00431205	1Cum.
vi)	<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.63	0.20349	1Mtr.

7	<p><b>R.C.C. Work (AR0404Bg)</b>  <b>:.Reinforced cement concrete work of M-20 grade with 20mm &amp; downgrade size black hard crusher broken granite chips(RCC Roof slab, lending, balcony, sun shed)(Nominal mix as per IS-456, Table-9).</b> - Reinforced cement concrete work of M-20 grade with 20mm &amp; 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&amp;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).</p>	-	0.93872	Cum
i)	<p><b>BRM060</b> : Granite Stone broken chips 10mm. size (Minimum 65% by Wt. Passing through 9.5mm sieve &amp; retained on 6.3mm sieve but whole should pass through 13.2mm sieve) (Crusher broken)</p>	0.36	0.3379392	1 Cum.
ii)	<p><b>BRM052</b> : Granite Stone broken chips 20mm. size (Minimum 65% by Wt. Passing through 19mm sieve &amp; retained on 13.2mm sieve but whole should pass through 26.5mm sieve) (Crusher broken)</p>	0.54	0.5069088	1 Cum.
iii)	<p><b>BRM340</b> : Cement</p>	3.4733	3.260456176	1 Qntl.
iv)	<p><b>BRM028</b> : Screened and washed sharp sand for mortar</p>	0.45	0.422424	1 Cum
v)	<p><b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.</p>	6.2216	5.840340352	1Mtr

vi)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0502172	0.047139889984	1Cum.
8	<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>2.502</b>	Qntl
i)	<b>BRM162</b> : Binding Wire.	0.8	2.0016	1 Kg.
ii)	<b>BRM341</b> : Steel	1.05	2.6271	1 Qntl.
9	<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>6.012</b>	Sqm
i)	<b>BRM340</b> : Cement	0.0358	0.2152296	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.015	0.09018	1 Cum

10	<b>Plastering (AR1014)</b> <b>:.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>29.199</b>	Sqm
i)	<b>BRM340</b> : Cement	0.043	1.255557	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.018	0.525582	1 Cum
11	<b>Plastering (AR1027)</b> <b>:.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>5.3712</b>	Sqm
i)	<b>BRM340</b> : Cement	0.0372	0.19980864	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.0075	0.040284	1 Cum
12	<b>Iron Work(AR1704)</b> <b>:.Iron Doors and windows fixing</b> - 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>0.567</b>	Qntl

i)	<b>BRM341 : Steel</b>	1	0.567	1 Qntl.
13	<b>Flooring (AR0816) :.Fixing ceramic Tiles (30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755) in floor -</b> Fixing ceramic Tiles (30cmx30cm / 40cmx40cm special plain/printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755) 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 ceramic tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in- charge.	-	<b>2.9702</b>	Sqm
i)	<b>BRMMR0027 : Wax Polish</b>	1	2.9702	1 Sqm
ii)	<b>BRM130 : Tiles up to 30cm x 30cm / 40cm x 40cm special plain / printed series ceramic floor tiles of premium grade having thickness 7mm to 8mm confirming to IS 13755</b>	1	2.9702	1 Sqm.
iii)	<b>BRM340 : Cement</b>	0.2737	0.81294374	1 Qntl.
iv)	<b>BRM028 : Screened and washed sharp sand for mortar</b>	0.013	0.0386126	1 Cum

14	<p><b>Flooring (AR0817b)</b>  <b>:.Fixing ceramic tiles (20cmx30cm / 20cmx20cm special plain/printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753) - Fixing ceramic tiles (20cmx30cm / 20cmx20cm special plain/printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753) in wall cladding on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the ceramic tiles including rubbing and polishing, cost of precast tiles complete as per direction of Engineer-in-charge.</b></p>	-	4.284	Sqm
i)	<p><b>BRM129</b> : Tiles up to 20cmx30cm / 20cm x 20cm special plain /printed series ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753</p>	1	4.284	1 Sqm.
ii)	<p><b>BRM340</b> : Cement</p>	0.1375	0.58905	1 Qntl.
iii)	<p><b>BRM028</b> : Screened and washed sharp sand for mortar</p>	0.015	0.06426	1 Cum

15	<p><b>Painting(AR0917hk)</b>  <b>:.Finishing wall with one coat weather coat paint of approved shade including one coat of water bound primer in the outer surface of old work (Outside)(For repair and maintenance).</b> -  Finishing wall with one coat weather coat paint of approved shade including one coat of water bound primer 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)(For repair and maintenance).</p>	-	<b>18.933</b>	Sqm
i)	<b>BRM255</b> : Weather Coat (I.S.I.)	0.075	1.419975	1 Ltr
ii)	<b>BRM253</b> : Wall cement primer (I.S.I.) Water bound	0.090322580645161	1.7100774193548	1 Ltr
16	<p><b>Painting(AR0922)</b>  <b>:.Finishing wall two coats with distemper of approved shades on new work (Inside) -</b>  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)</p>	-	<b>15.6422</b>	Sqm
i)	<b>BRM142</b> : Distemper	0.25	3.91055	1 Kg.

17	<b>Painting(AR0903a)</b> :.Painting two coats of enamel paint with a coat of wood primer in inner surface paint (Inside) - Painting two coats of enamel paint with a coat of wood primer in inner 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.(Inside)	-	4.2525	Sqm
i)	<b>BRM141</b> : Enamel paint	0.125	0.5315625	1 Litre
ii)	<b>BRM138</b> : Wood Primer	0.075	0.3189375	1 Litre

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	<b>BRM029</b>	2.30886	1 Cum	531.74	1227.7132164
2	<b>BRM044</b>	1.7009472	1 Cum.	1622.8	2760.29711616
3	<b>BRM340</b>	18.551626806	1 Qntl.	662.622	12292.716057445
4	<b>BRM028</b>	4.0157312	1 Cum	538.16	2161.105902592
5	<b>BRM005</b>	1443.4875	1000 Nos	6.30585	9102.415651875
6	<b>BRM060</b>	1.0012392	1 Cum.	2007.55	2010.03775596
7	<b>BRM052</b>	1.5018588	1 Cum.	2009.84	3018.495890592
8	<b>BRM104</b>	0.057537537484	1Cum.	58573.086	3370.1511312786
9	<b>BRM092</b>	0.4906755	1Mtr.	229.106	112.416701103
10	<b>BRM084</b>	5.840340352	1Mtr	250.166	1461.0545844984
11	<b>BRM162</b>	2.0016	1 Kg.	90	180.144
12	<b>BRM341</b>	3.1941	1 Qntl.	6849.802	21878.9525682
13	<b>BRMMR0027</b>	2.9702	1 Sqm	8.5	25.2467
14	<b>BRM130</b>	2.9702	1 Sqm.	464.5902781	1379.9260440126
15	<b>BRM129</b>	4.284	1 Sqm.	419.7102781	1798.0388313804
16	<b>BRM255</b>	1.419975	1 Ltr	195.21622	277.2021519945
17	<b>BRM253</b>	1.7100774193548	1 Ltr	159.45622	272.68248119768
18	<b>BRM142</b>	3.91055	1 Kg.	70.52622	275.796309621
19	<b>BRM141</b>	0.5315625	1 Litre	205.76622	109.37760631875
20	<b>BRM138</b>	0.3189375	1 Litre	155.50622	49.59676504125

**Total: 63763.367465671**