

ESTIMATION DPR							
<b>State</b>	Odisha	<b>District</b>	Bhadrak	<b>Block</b>	Tihidi	<b>Gram Panchayat</b>	Bhatapada

<b>Work Code</b>	OD/348/3328/116753/395128/00068678 (DEVELOPMENT OF RURAL HAAT NEAR BLOCK CAMPUS (CONSTRUCTION OF REST SHED,HAAT PINDI , SUPPLY OF DRINKING WATER FACILITY , TOILET, IMPROVEMENT OF COMMUNI)
<b>Project Category</b>	Other Infrastructure

<b>Financial Year</b>	2022-23	<b>Execution Level</b>	PS
<b>Executing Agency</b>	Panchayat Samiti, Tihidi	<b>Proposal Date</b>	-
<b>Date of Commencement</b>	19-12-2025	<b>Date of Completion</b>	-
<b>Scheme Name</b>	5th SFC Grant in Aid	<b>Scheme Component Name</b>	Development of Rural Haat
<b>Project Sub-Category</b>	Rural Haat	<b>Project Type</b>	Repair and Maintenance
<b>Name of Executant</b>	PEO BHATAPADA GP		

### Administrative Approval Details

<b>Approval No.</b>	OD/348/3328/116753/395128/00068678/AS
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### Technical Sanction Details

<b>Technical Sanction No.</b>	OD/348/3328/116753/395128/00068678/TS
<b>Fund Sanction No.</b>	33620
<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
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1	<p><b>Pile Foundation(AR1501be ) :Single under reamed pile foundation 300 mm dia and 5.0 metre long with RCC M20 using 12mm size black hard granite (Crusher broken) stone chips -</b></p> <p>Single under reamed pile foundation 300 mm dia and 5.0 metre long with RCC M-20 using 12mm size black hard granite (Crusher broken) stone chips including cost of boring but excluding cost of M.S./Tor steel and labour charges for cutting, bending and binding of steel including cost, convenience, royalty,taxes of all materials, labour and T&amp;P required for the work etc. complete and as per direction of Engineer-in charge. (300mm dia and 5.0 meter long)</p>	-	16	Nos
i)	<b>BRM340</b> : Cement	1.765	28.24	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.209	3.344	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)	0.419	6.704	1 Cum.

2	<p><b>Earth Work (AR0102aa) :.Earth work in hard soil or gravelly soil foundation &amp; plinth within 50m. Initial lead and 1.5m initial lift -</b>  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</p>	-	3.652848	Cum
3	<p><b>Earth Work (AR0115) :.Filling foundation and plinth with sand well watered and rammed -</b> Filling foundation and plinth with sand well watered and rammed including cost, conveyance, royalty, taxes of all materials, labours and T &amp; P required for the work etc. complete and as per direction of Engineer-in charge.</p>	-	27.887799	Cum
i)	<b>BRM029</b> : Sand for filling and road blinding	1	27.887799	1 Cum
4	<p><b>Concrete (AR0303) :.Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal -</b>  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&amp;P required for the work etc. complete and as per direction of Engineer-in charge.</p>	-	7.114174	Cum
i)	<b>BRM340</b> : Cement	2.29	16.29145846	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	3.41480352	1 Cum

iii)	<b>BRM044</b> : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	6.82960704	1 Cum.
5	<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>3.456</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	12.0037248	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1.5552	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	1.24416	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	1.86624	1 Cum.
v)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.01384128	1Cum.

vi)	<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.000921	0.003182976	1Mtr.
6	<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>4.62375</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	16.059670875	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	2.0806875	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	1.66455	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	2.496825	1 Cum.
v)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.0617270625	1Cum.
vi)	<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.00307	0.0141949125	1Mtr.

7	<b>R.C.C. Work (AR0404Ac)</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 Beams, Column, Girder & Bressmer etc)	-	<b>4.7325</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	16.43739225	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	2.129625	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	1.7037	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	2.55555	1 Cum.
v)	<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.045339	0.2145668175	1Mtr
vi)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.1965359925	1Cum.

8	<p><b>R.C.C. Work (AR0404Ag)</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 Roof slab, landing, balcony, sun shade)</p>	-	<b>8.22046875</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	28.552154109375	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	3.6992109375	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	2.95936875	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	4.439053125	1 Cum.
v)	<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.076659	0.63017291390625	1Mtr
vi)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0502172	0.4128089233125	1Cum.

9	<b>Concrete (AR0317) :.2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips - 2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size hard granite chips including hoisting and laying in position compacting and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&amp;P required for the work etc. complete as per specifaion and direction of Engineer-in charge. (new work)</b>	-	<b>65.76375</b>	Sqm
i)	<b>BRM340 : Cement</b>	0.1208	7.944261	1 Qntl.
ii)	<b>BRM028 : Screened and washed sharp sand for mortar</b>	0.0169	1.111407375	1 Cum
iii)	<b>BRM064 : Granite stone broken chips of 4.7 mm size passing through 6.7 mm sieve (crusher broken.) and retained on 2.36 mm sieve.</b>	0.0169	1.111407375	1 Cum.
10	<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 - 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>	-	<b>24.88</b>	Qntl
i)	<b>BRM341 : Steel</b>	1.05	26.124	1 Qntl.

11	<p><b>Masonry Brick Work (AR0603bi) :.Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure -</b> 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/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>	-	19.6	Cum
i)	<b>BRM340</b> : Cement	0.672	13.1712	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.28	5.488	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 ± 2 %	350	6860	1000 Nos
12	<p><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 &amp; P required for the work, etc comp. and as per the direction of the Engineer-in-charge.</p>	-	53.4525	Sqm
i)	<b>BRM340</b> : Cement	0.0372	1.988433	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.0075	0.40089375	1 Cum

13	<b>Plastering (AR1004)</b> <b>::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>88.815</b>	Sqm
i)	<b>BRM340</b> : Cement	0.0358	3.179577	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.015	1.332225	1 Cum
14	<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>132.825</b>	Sqm
i)	<b>BRM340</b> : Cement	0.043	5.711475	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.018	2.39085	1 Cum

15	<p><b>Concrete (AR0307)</b>  <b>:.Cement concrete (1:2:4)with 12mm size hard broken granite chips per 1cum -</b>  Cement concrete work with (1:2:4) using 12mm size hard granite(crusher broken) 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. complete as per specifaion and direction of Engineer-in charge.</p>	-	2.672625	Cum
i)	<b>BRM340</b> : Cement	3.23	8.63257875	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1.20268125	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	2.4053625	1 Cum.
16	<p><b>Other Building Items. (AR1901B) :.Vitrified Tile 600mmx600mm Plain Ivory -</b>  Supplying, fitting &amp; 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&amp;P , etc. required for the work all complete as per direction of Engineer-in-charge(for new work only)</p>	-	54.0025	Sqm
i)	<b>BRM174</b> : White Cement.	0.0076	0.410419	1Qntl
ii)	<b>BRM340</b> : Cement	0.1074	5.7998685	1 Qntl.

iii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.021	1.1340525	1 Cum
iv)	<b>BRM131</b> : Tiles up to Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15622:2006 (Group-B la) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)	1	54.0025	1 Sqm.
17	<b>Flooring (AR0817aa) :.Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) -</b> Fixing Vitrified tiles of premium grade having thickness 8mm to 10mm confirming to IS 13756 of size 600mmx600mm plain (Ivory) in dados skirting and risers of steps on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the Vitrified tiles including rubbing and polishing complete including cost of precast tiles.	-	<b>32.4899999988</b>	Sqm
i)	<b>BRM131</b> : Tiles up to Polished Vitrified floor tiles of premium grade having thickness 8 mm to 10mm confirming to IS 15622:2006 (Group-B la) of sizes Vitrified Tile 600mmx600mm Plain (Ivory)	1	32.4899999988	1 Sqm.
ii)	<b>BRM340</b> : Cement	0.1375	4.467374999835	1 Qntl.
iii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.015	0.487349999982	1 Cum

18	<b>Painting(AR0918g)</b> :.Finishing wall with two coats weather coat paint of approved shade including one coat of oil bound primer in the outer surface of old work .(Outside) - Finishing wall with two coats weather coat paint of approved shade including one coat of oil 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)	-		<b>88.815</b>	Sqm
i)	<b>BRM255</b> : Weather Coat (I.S.I.)	0.125		11.101875	1 Ltr
ii)	<b>BRM252</b> : Wall cement primer (I.S.I.) Oil bound	0.084		7.46046	1 Ltr
19	<b>Painting(AR0922a)</b> :.Finishing wall surface with two coats with distemper of approved shades above one coat oil bound Primer on new work (Inside) - Finishing wall surface with two coats with distemper of approved shades above one coat oil bound Primer on new work to give an even shade including all costs of labor, Paint, Primer, Brushes and putty required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)	-		<b>186.278</b>	Sqm
i)	<b>BRM142</b> : Distemper	0.25		46.5695	1 Kg.
ii)	<b>BRM252</b> : Wall cement primer (I.S.I.) Oil bound	0.084		15.647352	1 Ltr

S/N	Material Name	Qty	Unit	Royalty Rate	Amount
1	<b>BRM028</b>	29.770986832482	1 Cum	40.25	1198.2822200074
2	<b>BRM056</b>	9.1093625	1 Cum.	149.5	1361.84969375
3	<b>BRM029</b>	27.887799	1 Cum	40.25	1122.48390975

4	<b>BRM044</b>	6.82960704	1 Cum.	149.5	1021.02625248
5	<b>BRM060</b>	7.57177875	1 Cum.	149.5	1131.980923125
6	<b>BRM052</b>	11.357668125	1 Cum.	149.5	1697.9713846875
7	<b>BRM064</b>	1.111407375	1 Cum.	149.5	166.1554025625
<b>Total: 7699.7497863624</b>					