

ESTIMATION DPR							
State	Odisha	District	Balasore	Block	Bhograi	Gram Panchayat	Kharidpipal

Work Code	OD/346/3302/116157/391914/00066325 (REPAIR & MAINTENANCE OF DAHAMUNDA NODAL HIGH SCHOOL)						
Project Category	Building						

Financial Year	2024-25	Execution Level	PS
Executing Agency	Panchayat Samiti, Bhograi	Proposal Date	-
Date of Commencement	-	Date of Completion	-
Scheme Name	Asset Management School and Mass Education Department	Scheme Component Name	Self/Personal Deposit
Project Sub-Category	Secondary School	Project Type	Repair and Maintenance
Name of Executant			

### Administrative Approval Details

Approval No.	OD/346/3302/116157/391914/00066325/AS
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### Technical Sanction Details

Technical Sanction No.	OD/346/3302/116157/391914/00066325/TS
Fund Sanction No.	
Fund Sanction Amount (in Rs.)	248000

### MATERIAL 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(AR1501cb ) :.Single under reamed pile foundation 250 mm dia and 3.5 metre long with RCC M20 using 12mm size black hard granite (Crusher broken) stone chips -</b></p> <p>Single under reamed pile foundation 250 mm dia and 3.5 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. (250mm dia and 3.5 meter long)</p>	-	6	Nos
i)	<b>BRM178</b> : Bentonite powder	0.663	3.978	1Qntl
ii)	<b>BRM342</b> : Tripod	0.265	1.59	Per day
iii)	<b>BRM340</b> : Cement	0.898	5.388	1 Qntl.
iv)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.107	0.642	1 Cum
v)	<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)	0.212	1.272	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>	-	2.620578256	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>	-	5.0654307763392	Cum
i)	<p><b>BRM029 : Sand for filling and road blinding</b></p>	1	5.0654307763392	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>	-	1.4152629602496	Cum
i)	<p><b>BRM340 : Cement</b></p>	2.29	3.2409521789716	1 Qntl.
ii)	<p><b>BRM028 : Screened and washed sharp sand for mortar</b></p>	0.48	0.67932622091981	1 Cum

iii)	<b>BRM044</b> : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1.3586524418396	1 Cum.
5	<b>Masonry Brick Work (AR0603b) :Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth</b> - 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 ±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.	-	<b>1.5213714183584</b>	Cum
i)	<b>BRM340</b> : Cement	0.672	1.0223615931368	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.28	0.42598399714035	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	532.47999642544	1000 Nos

6	<p><b>R.C.C. Work (AR0404A)</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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)</p>	-	<b>4.4613222605824</b>	Cum
i)	<b>BRM340</b> : Cement	3.4733	15.495510607681	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	2.0075950172621	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	1.6060760138097	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	2.4091140207145	1 Cum.

7	<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.	-	3.8	Qntl
i)	<b>BRM162</b> : Binding Wire.	0.8	3.04	1 Kg.
ii)	<b>BRM341</b> : Steel	1.05	3.99	1 Qntl.
8	<b>R.C.C. Work (AR0410c) :.R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc -</b> 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	-	12.63294994	Sqm
i)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.0337299763398	1Cum.
ii)	<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.126	1.59175169244	1Mtr.

9	<b>R.C.C. Work (AR0410d) :Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting</b> - 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. beams, column, grider and bressmer, etc. Data for 4.2sqm	-	<b>11.5109046672</b>	Sqm
i)	<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.55238095238095	6.3584044828343	1Mtr
ii)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0051904761904762	0.059747076605943	1Cum.
10	<b>R.C.C. Work (AR0410e) :Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting</b> - 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. Lintels Data for 7.8 sqm	-	<b>4.83002697</b>	Sqm
i)	<b>BRM094</b> : Non-sal bullahs 125mm. mean dia of any length.	0.26923076923077	1.3003918765385	1Mtr.
ii)	<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0052948717948718	0.025574373571923	1Cum.

11	<p><b>R.C.C. Work (AR0410a) :-Centring &amp; Shuttering for R.C.C. floor and roof slabs, landings,balconies, projecting sun shades and chajjas - 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. floor and roof slabs, landings, balconies, projecting sun shades and chajjas up to 4.3m height</b></p>	-	<b>18.722277075</b>	Sqm
i)	<p><b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.</p>	0.622222222222222	11.649416846667	1Mtr
ii)	<p><b>BRM104</b> : Non Sal wood scantling &amp; plants(Tentera, Kasi, Gamhari, Kuruma)</p>	0.005022222222222	0.094027435976667	1Cum.
12	<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/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&amp;P required for the work, etc. complete and as per direction of Engineer-in-charge.</p>	-	<b>3.800277664768</b>	Cum
i)	<p><b>BRMMR0025</b> : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK</p>	1	3.800277664768	1 Cum
ii)	<p><b>BRM340</b> : Cement</p>	0.672	2.5537865907241	1 Qntl.
iii)	<p><b>BRM028</b> : Screened and washed sharp sand for mortar</p>	0.28	1.064077746135	1 Cum

iv)	<b>BRM005</b> : Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance $\pm$ 2 %	350	1330.0971826688	1000 Nos
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>18.722277075</b>	Sqm
i)	<b>BRM340</b> : Cement	0.0372	0.69646870719	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.0075	0.1404170780625	1 Cum
14	<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>44.18187971</b>	Sqm
i)	<b>BRM340</b> : Cement	0.0358	1.581711293618	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.015	0.66272819565	1 Cum

15	<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>34.296535995</b>	Sqm
i)	<b>BRM340</b> : Cement	0.043	1.474751047785	1 Qntl.
ii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.018	0.61733764791	1 Cum
16	<b>Other Building Items. (AR1901B) :.Vitrified Tile 600mmx600mm Plain Ivory -</b> 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)	-	<b>9.63497013</b>	Sqm
i)	<b>BRM174</b> : White Cement.	0.0076	0.073225772988	1Qntl
ii)	<b>BRM340</b> : Cement	0.1074	1.034795791962	1 Qntl.
iii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.021	0.20233437273	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	9.63497013	1 Sqm.

17	<b>Flooring (AR0817bc)</b> :.Fixing Vitrified industrial Tile of premium grade having thickness 8mm to 10mm confirming to IS 4457 of size 300mmx300mm in wall cladding/ glazed tiles on 12mm thick cement plaster (1:3) - Fixing Vitrified industrial Tile of premium grade having thickness 8mm to 10mm confirming to IS 4457 of size 300mmx300mm in wall cladding/ glazed tiles on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shade of the Vitrified industrial tiles including rubbing and polishing complete including cost of precast tiles.	-	32.2745022	Sqm
i)	<b>BRM133</b> : Tiles up to Vitrified industrial floor Tile of premium grade having thickness 8mm to 10mm confirming to IS 4457 of size 300mmx300mm	1	32.2745022	1 Sqm.
ii)	<b>BRM340</b> : Cement	0.1375	4.4377440525	1 Qntl.
iii)	<b>BRM028</b> : Screened and washed sharp sand for mortar	0.015	0.484117533	1 Cum

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	<b>BRM178</b>	3.978	1Qntl	337.87	1344.04686
2	<b>BRM342</b>	1.59	Per day	450	715.5
3	<b>BRM340</b>	36.926081863568	1 Qntl.	567.932	20971.50352494
4	<b>BRM028</b>	6.9259178088098	1 Cum	730.47	5059.1751818013
5	<b>BRM056</b>	1.272	1 Cum.	2957.73	3762.23256
6	<b>BRM029</b>	5.0654307763392	1 Cum	725.53	3675.1219911574
7	<b>BRM044</b>	1.3586524418396	1 Cum.	2556.36	3473.2047562211
8	<b>BRM005</b>	1862.5771790942	1000 Nos	6.8607	12778.583252612
9	<b>BRM060</b>	1.6060760138097	1 Cum.	2979.78	4785.7531844298
10	<b>BRM052</b>	2.4091140207145	1 Cum.	2943.4	7090.986208571
11	<b>BRM162</b>	3.04	1 Kg.	90	273.6
12	<b>BRM341</b>	3.99	1 Qntl.	6216.742	24804.80058

13	<b>BRM104</b>	0.21307886249433	1Cum.	58620.646	12490.820568363
14	<b>BRM092</b>	1.59175169244	1Mtr.	276.666	440.38357374061
15	<b>BRM084</b>	18.007821329501	1Mtr	297.726	5361.396613147
16	<b>BRM094</b>	1.3003918765385	1Mtr.	287.666	374.07852955631
17	<b>BRMMR0025</b>	3.800277664768	1 Cum	33	125.40916293734
18	<b>BRM174</b>	0.073225772988	1Qntl	2047.912	149.9599392114
19	<b>BRM131</b>	9.63497013	1 Sqm.	662.3175001	6381.4093300398
20	<b>BRM133</b>	32.2745022	1 Sqm.	589.5875001	19028.64306907
					<b>Total: 133086.608858</b>