ESTIMATION DPR							
State	Odisha	**District**	Nayagarh	**Block**	Nayagarh	**Gram Panchayat**	Nabaghanapur

Work Code	OD/367/3527/120674/406250/00014379 (Construction of Lekhanpur VSS Lekhanpur)
Project Category	Building

Financial Year	2024-25	**Execution Level**	PS
Executing Agency	Panchayat Samiti, Nayagarh	**Proposal Date**	-
Date of Commencement	03-10-2025	**Date of Completion**	-
Scheme Name	Construction of Vana Suraksha Samiti Building	**Scheme Component Name**	Construction of Buildings for Vana Suraksha Samiti
Project Sub-Category	Vana Suraksha Samiti Building	**Project Type**	New Work
Name of Executant	Manoja Kumar Sethi		

Administrative Approval Details

Approval No.	OD/367/3527/120674/406250/00014379/AS

Technical Sanction Details

Technical Sanction No.	OD/367/3527/120674/406250/00014379/TS
Fund Sanction No.	
Fund Sanction Amount (in Rs.)	850000

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	-	**24.50089599232**	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.	-	**20.107227210893**	Cum
i)	**BRM029 :** Sand for filling and road blinding	1	20.107227210893	1 Cum
3	**Concrete (AR0303a) :.Cement concrete (1:3:6) with 4 cm. hard granite(Hand Broken) metal -** Cement concrete (1:3:6) with 4 cm. hard granite(Hand 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.	-	**6.5432124737664**	Cum
i)	**BRM340 :** Cement	2.29	14.983956564925	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.48	3.1407419874079	1 Cum
iii)	**BRM045 :** Granite Stone broken metal 40mm. size (Hand broken)	0.96	6.2814839748157	1 Cum.

4	**Masonry Brick Work (AR0603b) :.Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth -** 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/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&P required for the work, etc. complete and as per direction of Engineer-in-charge.	-	**8.82480612608**	Cum
i)	**BRM340 :** Cement	0.672	5.9302697167258	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.28	2.4709457153024	1 Cum
iii)	**BRM005 :** 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 ± 2 %	350	3088.682144128	1000 Nos
5	**Masonry Brick Work (AR0603bi) :.Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure -** 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&P required for the work, etc. complete and as per direction of Engineer-in-charge.	-	**22.34799517344**	Cum

i)	**BRMMR0025 :** SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1	22.34799517344	1 Cum
ii)	**BRM340 :** Cement	0.672	15.017852756552	1 Qntl.
iii)	**BRM028 :** Screened and washed sharp sand for mortar	0.28	6.2574386485632	1 Cum
iv)	**BRM005 :** 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 ± 2 %	350	7821.798310704	1000 Nos
6	**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 concreate, pre-cast slabs etc.)	-	**4.141332**	Cum
i)	**BRM340 :** Cement	3.4733	14.3840884356	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	1.8635994	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	1.49087952	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	2.23631928	1 Cum.
v)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.004005	0.01658603466	1Cum.
vi)	**BRM092 :** Non-sal bullahs 75mm. mean dia of any length.	0.189	0.782711748	1Mtr.
7	**R.C.C. Work (AR0404Ab) :.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)	-	**1.9181669213216**	Cum
i)	**BRM340 :** Cement	3.4733	6.6623691678263	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	0.86317511459472	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	0.69054009167578	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	1.0358101375137	1 Cum.
v)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	0.025607528399643	1Cum.
vi)	**BRM092 :** Non-sal bullahs 75mm. mean dia of any length.	0.63	1.2084451604326	1Mtr.
8	**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)	-	**3.7143864674048**	Cum
i)	**BRM340 :** Cement	3.4733	12.901178517237	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	1.6714739103322	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	1.3371791282657	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	2.0057686923986	1 Cum.
v)	**BRM084 :** Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	4.4196	16.416102431342	1Mtr
vi)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.041529	0.15425475560485	1Cum.
9	**R.C.C. Work (AR0404Bd) :.Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips(RCC Lintels)(Nominal mix as per IS-456, Table-9). -** Reinforced cement concrete work of M-20 grade with 20mm & 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&P required for the work etc. (including centring and shuttering) complete and as per direction of Engineer-in charge (RCC Lintels)(Nominal mix as per IS-456, Table-9).	-	**1.15552224176**	Cum

i)	**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	0.4159880070336	1 Cum.
ii)	**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	0.6239820105504	1 Cum.
iii)	**BRM340 :** Cement	3.4733	4.013475402305	1 Qntl.
iv)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	0.519985008792	1 Cum
v)	**BRM094 :** Non-sal bullahs 125mm. mean dia of any length.	3.7695	4.3557410903143	1Mtr.
vi)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0741335	0.085662908109515	1Cum.
10	**R.C.C. Work (AR0404Af) :.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 Sun sheds & Chajja)	-	**9.59502184**	Sqm
i)	**BRM340 :** Cement	0.21708125	2.0828993348045	1 Qntl.

ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.028125	0.26985998925	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)	0.0225	0.2158879914	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)	0.03375	0.3238319871	1 Cum.
v)	**BRM084 :** Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.68432	6.5660653455488	1Mtr
vi)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00552344	0.05299752743193	1Cum.
11	**R.C.C. Work (AR0404Ae) :.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 Stairs excluding landing but including railing)	-	**1.241373116**	Cum
i)	**BRM340 :** Cement	3.4733	4.3116612438028	1 Qntl.

ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	0.5586179022	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	0.44689432176	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	0.67034148264	1 Cum.
v)	**BRM094 :** Non-sal bullahs 125mm. mean dia of any length.	1.17	1.45240654572	1Mtr.
vi)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.04806	0.05966039195496	1Cum.
12	**R.C.C. Work (AR0404Bg) :.First Floor -** Reinforced cement concrete work of M-20 grade with 20mm & 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&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).	-	**5.44538576864**	Cum
i)	**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	1.9603388767104	1 Cum.

ii)	**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	2.9405083150656	1 Cum.
iii)	**BRM340 :** Cement	3.4733	18.913458390217	1 Qntl.
iv)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	2.450423595888	1 Cum
v)	**BRM084 :** Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	7.46592	40.654814517805	1Mtr
vi)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.06026064	0.32814243146514	1Cum.
13	**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.	-	**18**	Qntl
i)	**BRM162 :** Binding Wire.	0.8	14.4	1 Kg.
ii)	**BRM341 :** Steel	1.05	18.9	1 Qntl.

14	**Plastering (AR1017) :.20mm thick cement Plaster in CM (1:4) over masonry work in inside. -** 20mm thick cement Plaster in CM (1:4) over stone 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.	-	**43.57429409**	Sqm
i)	**BRM340 :** Cement	0.0744	3.241927480296	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.021	0.91506017589	1 Cum
15	**Plastering (AR1027) :.6mm thick cement Plaster in CM (1:4) over R.C.C. surfaces including chipping (Inside) -** 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.	-	**31.7631269268**	Sqm
i)	**BRM340 :** Cement	0.0372	1.181588321677	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.0075	0.238223451951	1 Cum

16	**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.	-	**133.5573528**	Sqm
i)	**BRM340 :** Cement	0.043	5.7429661704	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.018	2.4040323504	1 Cum
17	**Plastering (AR1004) :.12mm thick cement plster (1:6) over Brick work in inside -** 12mm thick cement plster (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, royality, taxes of all materials, labour and T & P required for the work etc. comp.and as per direction of Engineer-in-charge.	-	**119.8741901868**	Sqm
i)	**BRM340 :** Cement	0.0358	4.2914960086874	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.015	1.798112852802	1 Cum
18	**Flooring (AR0802ii) :.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.	-	**29.3476489268**	Sqm
i)	**BRM340 :** Cement	0.0858	2.5180282779194	1 Qntl.

ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.012	0.3521717871216	1 Cum
iii)	**BRM057 :** 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	0.6749959253164	1 Cum.
19	**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.	-	**285.1943**	Sqm
i)	**BRM253 :** Wall cement primer (I.S.I.) Water bound	0.084	23.9563212	1 Ltr
20	**Painting(AR0918f) :.Finishing wall with two coat weather coat paint of approved shade in the outer surface of old work(Outside) -** Finishing wall with two coat weather coat paint of approved shade 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)	-	**149.4424279968**	Sqm
i)	**BRM255 :** Weather Coat (I.S.I.)	0.125	18.6803034996	1 Ltr

21	**Painting(AR0922) :.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)	-	**15.35779493**	Sqm
i)	**BRM142 :** Distemper	0.25	3.8394487325	1 Kg.
22	**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.	-	**4.8**	Qntl
i)	**BRM341 :** Steel	1	4.8	1 Qntl.
23	**Painting(AR0901b) :.Priming one coat in inner surface with primer of approved quality over iron work. -** Priming one coat in inner 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.	-	**25.548325**	Sqm
i)	**BRM137 :** Red oxide Primer	0.054	1.37960955	1 Litre

24	**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)	-	**25.548325**	Sqm
i)	**BRM141 :** Enamel paint	0.125	3.193540625	1 Litre

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	**BRM029**	20.107227210893	1 Cum	410.7	8258.0382155138
2	**BRM340**	116.17721578898	1 Qntl.	587.627	68268.868782428
3	**BRM028**	25.773861890495	1 Cum	417.13	10751.051010382
4	**BRM045**	6.2814839748157	1 Cum.	1038.44	6522.9442188077
5	**BRM005**	10910.480454832	1000 Nos	6.00665	65535.437424017
6	**BRMMR0025**	22.34799517344	1 Cum	33	737.48384072352
7	**BRM060**	6.5577079368455	1 Cum.	1694.68	11113.216486413
8	**BRM052**	9.8365619052683	1 Cum.	1636.3	16095.56624559
9	**BRM104**	0.72291157762604	1Cum.	58573.086	42343.162006686
10	**BRM092**	1.9911569084326	1Mtr.	229.106	456.18599466336
11	**BRM084**	63.636982294696	1Mtr	250.166	15919.809312735
12	**BRM094**	5.8081476360343	1Mtr.	240.106	1394.5710962977
13	**BRM162**	14.4	1 Kg.	90.1	1297.44
14	**BRM341**	23.7	1 Qntl.	6666.717	158001.1929
15	**BRM057**	0.6749959253164	1 Cum.	1361.2	918.80445354068
16	**BRM253**	23.9563212	1 Ltr	159.27787	3815.7118137718
17	**BRM255**	18.6803034996	1 Ltr	195.03787	3643.3666055155
18	**BRM142**	3.8394487325	1 Kg.	70.34787	270.09704030557
19	**BRM137**	1.37960955	1 Litre	142.94787	197.21224660416
20	**BRM141**	3.193540625	1 Litre	199.22787	636.24229647722
					Total: 416176.40199047