ESTIMATION DPR							
State	Odisha	**District**	Kandhamal	**Block**	K.Nuagan	**Gram Panchayat**	Bondaguda

Work Code	OD/359/3426/118924/416119/00035797 (Renovation Of Tank At Bondaguda)
Project Category	Water Body

Financial Year	2023-24	**Execution Level**	PS
Executing Agency	Panchayat Samiti, K.Nuagan	**Proposal Date**	20-07-2023
Date of Commencement	06-04-2026	**Date of Completion**	-
Scheme Name	5th SFC Grant in Aid	**Scheme Component Name**	Maintenance of Capital Assets
Project Sub-Category	Tank	**Project Type**	Renovation or Rejuvenation
Name of Executant	SANDHYARANI PRADHAN		

Administrative Approval Details

Approval No.	OD/359/3426/118924/416119/00035797/AS

Technical Sanction Details

Technical Sanction No.	OD/359/3426/118924/416119/00035797/TS
Fund Sanction No.	15596
Fund Sanction Amount (in Rs.)	600000

ACTIVITY STATEMENT

S/N	ACTIVITY TAKEN	UNIT	QUANTITY	UNIT PRICE (IN RS.)	TOTAL (IN RS.)

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	Cum	41.5124288	240.77592	32889.367884696
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.	Cum	9.3162272	513.547832	32889.367884696

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.	Cum	9.3162272	5249.02519044	32889.367884696

4	**R.C.C. Work (AR0403A) : Reinforced cement concrete work of M-15 grade with 20mm & down grade size black hard crusher broken granite chips -** Reinforced cement concrete work of M-15 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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)	Cum	29.5061056	5673.8516288	32889.367884696

5	**R.C.C. Work (AR0404A) : 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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)	Cum	29.2512544	6166.8856173188	32889.367884696

6	**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.	Qntl	15.14	9557.951382	32889.367884696
7	**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	Sqm	151.989308	216.39264180804	32889.367884696
					Total Amount (in Rs.): 589079.78994357

LABOUR STATEMENT

Sl.No.	Activity Name	Qty/unit(B=Analysis Basic Qty/HeaderUnit)	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	-	41.5124288	Cum
i	Un-Skilled	0.516	21.4204132608	-
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.	-	9.3162272	Cum
i	Un-Skilled	0.1236	1.15148568192	-

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.	-	9.3162272	Cum
i	Un-Skilled	3.9	36.33328608	-
ii	Skilled	0.18	1.676920896	-
4	**R.C.C. Work (AR0403A) : Reinforced cement concrete work of M-15 grade with 20mm & down grade size black hard crusher broken granite chips -** Reinforced cement concrete work of M-15 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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)	-	29.5061056	Cum

i	Un-Skilled	1.33	39.243120448	-
ii	Semi-Skilled	0.06	1.770366336	-
iii	Skilled	0.1	2.95061056	-
5	**R.C.C. Work (AR0404A) : 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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)	-	29.2512544	Cum
i	Un-Skilled	1.3333	39.00069749152	-
ii	Skilled	0.1	2.92512544	-
iii	Semi-Skilled	0.0573	1.67609687712	-

6	**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.	-	15.14	Qntl
i	Un-Skilled	0.8	12.112	-
ii	Highly-Skilled	0.3	4.542	-
iii	Semi-Skilled	0.044	0.66616	-
7	**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	-	151.989308	Sqm
i	Semi-Skilled	0.05	7.5994654	-

ii	Skilled	0.05	7.5994654	-

Sl.No.	Labour Type	Qty Unit	Rate	Amount
0	Un-Skilled	149.26100296224	462	68958.583368555
1	Skilled	15.152122296	562	8515.492730352
2	Semi-Skilled	11.71208861312	512	5996.5893699174
3	Highly-Skilled	4.542	612	2779.704
				Total: 86250.369468824

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	-	**41.5124288**	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.	-	**9.3162272**	Cum
i)	**BRM029 :** Sand for filling and road blinding	1	9.3162272	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.	-	**9.3162272**	Cum
i)	**BRM340 :** Cement	2.29	21.334160288	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.48	4.471789056	1 Cum
iii)	**BRM045 :** Granite Stone broken metal 40mm. size (Hand broken)	0.96	8.943578112	1 Cum.

4	**R.C.C. Work (AR0403A) :.Reinforced cement concrete work of M-15 grade with 20mm & down grade size black hard crusher broken granite chips -** Reinforced cement concrete work of M-15 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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)	-	**29.5061056**	Cum
i)	**BRM340 :** Cement	2.8	82.61709568	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	13.27774752	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	10.622198016	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	15.933297024	1 Cum.

5	**R.C.C. Work (AR0404A) :.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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)	-	**29.2512544**	Cum
i)	**BRM340 :** Cement	3.4733	101.59838190752	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	13.16306448	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	10.530451584	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	15.795677376	1 Cum.

6	**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.	-	**15.14**	Qntl
i)	**BRM162 :** Binding Wire.	0.8	12.112	1 Kg.
ii)	**BRM341 :** Steel	1.05	15.897	1 Qntl.
7	**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	-	**151.989308**	Sqm
i)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.40581145236	1Cum.
ii)	**BRM092 :** Non-sal bullahs 75mm. mean dia of any length.	0.126	19.150652808	1Mtr.

Sl.No.	Material Name	Qty	Unit	Rate	Amount
1	**BRM029**	9.3162272	1 Cum	411.11	3829.994164192
2	**BRM340**	205.54963787552	1 Qntl.	620.742	127593.29331413
3	**BRM028**	30.912601056	1 Cum	548.19	16945.978772889

4	**BRM045**	8.943578112	1 Cum.	1258.67	11257.013462231
5	**BRM060**	21.1526496	1 Cum.	2372.58	50186.353387968
6	**BRM052**	31.7289744	1 Cum.	2336.2	74125.22999328
7	**BRM162**	12.112	1 Kg.	90.1	1091.2912
8	**BRM341**	15.897	1 Qntl.	7121.522	113210.835234
9	**BRM104**	0.40581145236	1Cum.	58620.646	23788.929491541
10	**BRM092**	19.150652808	1Mtr.	276.666	5298.3345097781
					Total: 427327.25353001

ROYALTY 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	-	**41.5124288**	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.	-	**9.3162272**	Cum
i)	**BRM029 :** Sand for filling and road blinding	1	9.3162272	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.	-	**9.3162272**	Cum
i)	**BRM340 :** Cement	2.29	21.334160288	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.48	4.471789056	1 Cum
iii)	**BRM045 :** Granite Stone broken metal 40mm. size (Hand broken)	0.96	8.943578112	1 Cum.
4	**R.C.C. Work (AR0403A) :.Reinforced cement concrete work of M-15 grade with 20mm & down grade size black hard crusher broken granite chips -** Reinforced cement concrete work of M-15 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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)	-	**29.5061056**	Cum
i)	**BRM340 :** Cement	2.8	82.61709568	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	13.27774752	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	10.622198016	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	15.933297024	1 Cum.
5	**R.C.C. Work (AR0404A) :.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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)	-	**29.2512544**	Cum
i)	**BRM340 :** Cement	3.4733	101.59838190752	1 Qntl.
ii)	**BRM028 :** Screened and washed sharp sand for mortar	0.45	13.16306448	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	10.530451584	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	15.795677376	1 Cum.
6	**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.	-	**15.14**	Qntl
i)	**BRM341 :** Steel	1.05	15.897	1 Qntl.
7	**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	-	**151.989308**	Sqm
i)	**BRM104 :** Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.00267	0.40581145236	1Cum.
ii)	**BRM092 :** Non-sal bullahs 75mm. mean dia of any length.	0.000614	0.093321435112	1Mtr.

S/N	Material Name	Qty	Unit	Royalty Rate	Amount

1	**BRM029**	9.3162272	1 Cum	40.25	374.9781448
2	**BRM028**	30.912601056	1 Cum	40.25	1244.232192504
3	**BRM045**	8.943578112	1 Cum.	149.5	1337.064927744
4	**BRM060**	21.1526496	1 Cum.	149.5	3162.3211152
5	**BRM052**	31.7289744	1 Cum.	149.5	4743.4816728
					Total: 10862.078053048

ADDITION COMPONENT

Sl.No.	Item Name	Amount (in Rs.)
1	Display Citizen Board @ Rs. 5000	Rs. 5000
2	Provision for Contingency @ 1%	Rs. 5890.7978994357
		Total Addition Component Amount (in Rs.): 10890.797899436

Total Net Amount (in Rs.): 599970.58784301