

## Analysis

**OD/346/3305/116231/393265/00068449 : Const of Pokaghata and changing room near AWC  
Tank  
Block : Nilgiri, Gram Panchayat : Arbandh  
Created By: Bikram Kishore Parida**

### Item 1

**Pile Foundation (AR1501ca):** Single under reamed pile foundation 250 mm dia and 3.0 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&P required for the work etc. complete and as per direction of Engineer-in charge. (250mm dia and 3.0 meter long)

Sub-Item of Work

**Single under reamed pile foundation 250 mm dia and 3.0 metre long with RCC M20 using 12mm size black hard granite (Crusher broken) stone chips**

#### a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM178</b> : Bentonite powder	0.588	1Qntl	337.87	198.66756	0
<b>BRM342</b> : Tripod	0.235	Per day	450	105.75	0
<b>LR063</b> : Winch operator	0.235	Per day	612	143.82	0
<b>LR062</b> : Boring Mistry	0.94	Per day	612	575.28	0
<b>PM096</b> : Generator 33KVA Generation of Electric Energy 50KVA	0.085	per hour	700	59.5	0
<b>PM083</b> : Concrete Mixer 04/0.28 cum Concrete Mixing 2.5cum/hour	0.085	per hour	229.55	19.51175	0
<b>LR001</b> : Male mulia	0.283	Per day	462	130.746	0
<b>LR025</b> : Mason	0.021	Per day	562	11.802	0
<b>LR010</b> : Mate	0.013	Per day	512	6.656	0
<b>BRM340</b> : Cement	0.805	1 Qntl.	545.68	439.2724	79.069032
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.096	1 Cum	76.88	7.38048	0
<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)	0.19	1 Cum.	1396.62	265.3578	0

#### b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	0.805	1 Qntl.	30.732	24.73926	0

<b>BRM028</b> : Screened and washed sharp sand for mortar	0.096	1 Cum	471.31	45.24576	0
<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)	0.19	1 Cum.	953.91	181.2429	0

<b>c) Royalty Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	0.805	1 Qntl.	0	0	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.096	1 Cum	442.25	42.456	0
<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)	0.19	1 Cum.	522.5	99.275	0

<b>Total Amount (a+b+c)</b>	2356.70291
<b>Total GST (a)</b>	79.069032
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	182.68289565
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	196.38411282375
<b>LABOUR CESS @ 1% (+)</b>	28.148389504738
<b>Grand Total</b>	2842.9873399785
<b>Say For Unit 1 (Grand Total/1)</b>	2842.9873399785

<b>Item 2</b>
<b>Earth Work (AR0102aa):</b> 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
Sub-Item of Work <b>Earth work in hard soil or gravelly soil foundation &amp; plinth within 50m. Initial lead and 1.5m initial lift</b>

<b>a) Specific Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
<b>LR002</b> : Female mulia	25.8	Per day	462	11919.6	0
<b>LR001</b> : Male mulia	25.8	Per day	462	11919.6	0

<b>Total Amount (a+b+c)</b>	23839.2
<b>Total GST (a)</b>	0
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	1787.94
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	1922.0355
<b>LABOUR CESS @ 1% (+)</b>	275.491755
<b>Grand Total</b>	27824.667255
<b>Say For Unit 1 (Grand Total/100)</b>	278.24667255

**Item 3**

**Earth Work (AR0115):** 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.

Sub-Item of Work

**Filling foundation and plinth with sand well watered and rammed**

**a) Specific Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM029 : Sand for filling and road blinding	100	1 Cum	71.94	7194	0
LR002 : Female mulia	12.36	Per day	462	5710.32	0

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM029 : Sand for filling and road blinding	100	1 Cum	471.31	47131	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM029 : Sand for filling and road blinding	100	1 Cum	442.25	44225	0

<b>Total Amount (a+b+c)</b>				104260.32	
<b>Total GST (a)</b>					0
<b>OVERHEAD CHARGES @ 7.5% (+)</b>				7819.524	
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>				8405.9883	
<b>LABOUR CESS @ 1% (+)</b>				1204.858323	
<b>Grand Total</b>				121690.690623	
<b>Say For Unit 1 (Grand Total/100)</b>				1216.90690623	

**Item 4**

**Concrete (AR0303a):** 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.

Sub-Item of Work

**Cement concrete (1:3:6) with 4 cm. hard granite(Hand Broken) metal**

**a) Specific Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
LR002 : Female mulia	1.4	Per day	462	646.8	0
LR001 : Male mulia	2.5	Per day	462	1155	0
LR025 : Mason	0.18	Per day	562	101.16	0
BRM340 : Cement	2.29	1 Qntl.	545.68	1249.6072	224.929296

<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	1 Cum	76.88	36.9024	0
<b>BRM045</b> : Granite Stone broken metal 40mm. size (Hand broken)	0.96	1 Cum.	787.36	755.8656	0

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	2.29	1 Qntl.	30.732	70.37628	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	1 Cum	471.31	226.2288	0
<b>BRM045</b> : Granite Stone broken metal 40mm. size (Hand broken)	0.96	1 Cum.	953.91	915.7536	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	2.29	1 Qntl.	0	0	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	1 Cum	442.25	212.28	0
<b>BRM045</b> : Granite Stone broken metal 40mm. size (Hand broken)	0.96	1 Cum.	522.5	501.6	0

<b>Total Amount (a+b+c)</b>	5871.57388
<b>Total GST (a)</b>	224.929296
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	457.2377382
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	491.530568565
<b>LABOUR CESS @ 1% (+)</b>	70.45271482765
<b>Grand Total</b>	7115.7241975927
<b>Say For Unit 1 (Grand Total/1)</b>	7115.7241975927

**Item 5**

**R.C.C. Work (AR0404Ab):** 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)

Sub-Item of Work

**Reinforced cement concrete work of M-20 grade with 20mm & down grade size black hard crusher broken granite chips**

**a) Specific Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>Combine :: R.C.C. Work (AR0404A)</b>					
<b>PM096</b> : Generator 33KVA Generation of Electric Energy 50KVA	0.4	per hour	700	280	0
<b>PM083</b> : Concrete Mixer 04/0.28 cum Concrete Mixing 2.5cum/hour	0.4	per hour	229.55	91.82	0
<b>LR001</b> : Male mulia	1.3333	Per day	462	615.9846	0
<b>LR025</b> : Mason	0.1	Per day	562	56.2	0

<b>LR010</b> : Mate	0.0573	Per day	512	29.3376	0
<b>BRM340</b> : Cement	3.4733	1 Qntl.	545.68	1895.310344	341.15586192
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	76.88	34.596	0
<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 Cum.	1418.67	510.7212	0
<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 Cum.	1382.29	746.4366	0
<b>Combine :: R.C.C. Work (AR0410c)</b>					
<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	1Cum.	58374.79	779.3034465	0
<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.63	1Mtr.	30.81	19.4103	0
<b>LR008</b> : Sangi mulia	0.25	Per day	512	128	0
<b>LR027</b> : Carpenter	0.25	Per day	562	140.5	0

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	3.4733	1 Qntl.	30.732	106.7414556	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	471.31	212.0895	0
<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 Cum.	953.91	343.4076	0
<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 Cum.	953.91	515.1114	0
<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	1Cum.	245.856	3.2821776	0
<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.00307	1Mtr.	245.856	0.75477792	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	3.4733	1 Qntl.	0	0	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	442.25	199.0125	0
<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 Cum.	522.5	188.1	0
<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 Cum.	522.5	282.15	0
<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.01335	1Cum.	0	0	0
<b>BRM092</b> : Non-sal bullahs 75mm. mean dia of any length.	0.00307	1Mtr.	0	0	0

<b>Total Amount (a+b+c)</b>	7178.26950162
<b>Total GST (a)</b>	341.15586192
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	563.9569022655
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	606.25366993541
<b>LABOUR CESS @ 1% (+)</b>	86.896359357409
<b>Grand Total</b>	8776.5322950983
<b>Say For Unit 1 (Grand Total/1)</b>	8776.5322950983

## Item 6

**Concrete (AR0307):** 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&P required for the work etc. complete as per specification and direction of Engineer-in charge.

Sub-Item of Work

**Cement concrete (1:2:4)with 12mm size hard broken granite chips per 1cum**

### a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>LR002</b> : Female mulia	1.4	Per day	462	646.8	0
<b>LR001</b> : Male mulia	3.2	Per day	462	1478.4	0
<b>LR025</b> : Mason	0.68	Per day	562	382.16	0
<b>BRM340</b> : Cement	3.23	1 Qntl.	545.68	1762.5464	317.258352
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	76.88	34.596	0
<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	1 Cum.	1396.62	1256.958	0

### b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	3.23	1 Qntl.	30.732	99.26436	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	471.31	212.0895	0
<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	1 Cum.	953.91	858.519	0

### c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	3.23	1 Qntl.	0	0	0

<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	442.25	199.0125	0
<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	1 Cum.	522.5	470.25	0

<b>Total Amount (a+b+c)</b>	7400.59576
<b>Total GST (a)</b>	317.258352
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	578.8390584
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	622.25198778
<b>LABOUR CESS @ 1% (+)</b>	89.1894515818
<b>Grand Total</b>	9008.1346097618
<b>Say For Unit 1 (Grand Total/1)</b>	9008.1346097618

### Item 7

**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 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.

Sub-Item of Work

**Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position**

#### a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>LR001</b> : Male mulia	8	Per day	462	3696	0
<b>LR046</b> : Blacksmith	3	Per day	612	1836	0
<b>LR010</b> : Mate	0.44	Per day	512	225.28	0
<b>BRM162</b> : Binding Wire.	8	1 Kg.	90	720	0
<b>BRM341</b> : Steel	10.5	1 Qntl.	6354.22	66719.31	12009.4758

#### b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM341</b> : Steel	10.5	1 Qntl.	30.732	322.686	0

#### c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM341</b> : Steel	10.5	1 Qntl.	0	0	0

<b>Total Amount (a+b+c)</b>	73519.276
<b>Total GST (a)</b>	12009.4758
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	6414.656385

<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	6895.755613875
<b>LABOUR CESS @ 1% (+)</b>	988.39163798875
<b>Grand Total</b>	99827.555436864
<b>Say For Unit 1 (Grand Total/10)</b>	9982.755436864

**Ramesh Singh**  
**JE**  
**Nilgiri Block**

**Sarat kumar Upadhyay**  
**AEE**  
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**Bikram Kishore Parida**  
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