

## Analysis

**OD/346/3304/116200/393471/00063507 : Const of Bhogamandap at Gayatri Ashram Nuasahi  
GP Achyutipur  
Block : Khaira, Gram Panchayat : Achutipur  
Created By:Narayan Sahu**

<b>Item 1</b>
<b>Pile Foundation (AR1501bd):</b> Single under reamed pile foundation 300 mm dia and 4.5 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&P required for the work etc. complete and as per direction of Engineer-in charge. (300mm dia and 4.5 meter long)
Sub-Item of Work <b>Single under reamed pile foundation 300 mm dia and 4.5 metre long with RCC M20 using 12mm size black hard granite (Crusher broken) stone chips</b>

<b>a) Specific Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM178</b> : Bentonite powder	0.9	1Qntl	337.87	304.083	0
<b>BRM342</b> : Tripod	0.36	Per day	450	162	0
<b>LR063</b> : Winch operator	0.36	Per day	612	220.32	0
<b>LR062</b> : Boring Mistry	1.44	Per day	612	881.28	0
<b>PM096</b> : Generator 33KVA Generation of Electric Energy 50KVA	0.172	per hour	700	120.4	0
<b>PM083</b> : Concrete Mixer 04/0.28 cum Concrete Mixing 2.5cum/hour	0.172	per hour	229.55	39.4826	0
<b>LR001</b> : Male mulia	0.573	Per day	462	264.726	0
<b>LR025</b> : Mason	0.043	Per day	562	24.166	0
<b>LR010</b> : Mate	0.025	Per day	512	12.8	0
<b>BRM340</b> : Cement	1.632	1 Qntl.	537.2	876.7104	157.807872
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.194	1 Cum	76.88	14.91472	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)	0.387	1 Cum.	1396.62	540.49194	0

<b>b) Carriage Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	1.632	1 Qntl.	24.787	40.452384	0

<b>BRM028</b> : Screened and washed sharp sand for mortar	0.194	1 Cum	1009.11	195.76734	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)	0.387	1 Cum.	601.51	232.78437	0

<b>c) Royalty Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	1.632	1 Qntl.	0	0	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.194	1 Cum	442.25	85.7965	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)	0.387	1 Cum.	1125.5	435.5685	0

<b>Total Amount (a+b+c)</b>	4451.743754
<b>Total GST (a)</b>	157.807872
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	345.71637195
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	371.64509984625
<b>LABOUR CESS @ 1% (+)</b>	53.269130977963
<b>Grand Total</b>	5380.1822287742
<b>Say For Unit 1 (Grand Total/1)</b>	5380.1822287742

<b>Item 2</b>
<b>Concrete (AR0303):</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&P required for the work etc. complete and as per direction of Engineer-in charge.
Sub-Item of Work <b>Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal</b>

<b>a) Specific Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
<b>LR025</b> : Mason	0.18	Per day	562	101.16	0
<b>LR002</b> : Female mulia	1.4	Per day	462	646.8	0
<b>LR001</b> : Male mulia	2.5	Per day	462	1155	0
<b>BRM340</b> : Cement	2.29	1 Qntl.	537.2	1230.188	221.43384
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	1 Cum	76.88	36.9024	0
<b>BRM044</b> : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	995.25	955.44	0

<b>b) Carriage Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST

<b>BRM340</b> : Cement	2.29	1 Qntl.	24.787	56.76223	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.48	1 Cum	1009.11	484.3728	0
<b>BRM044</b> : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	601.51	577.4496	0

<b>c) Royalty Rate Details</b>					
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>BRM044</b> : Granite Stone broken metal 40mm. size (Crusher broken)	0.96	1 Cum.	1125.5	1080.48	0

<b>Total Amount (a+b+c)</b>	6536.83503
<b>Total GST (a)</b>	221.43384
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	506.87016525
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	544.88542764375
<b>LABOUR CESS @ 1% (+)</b>	78.100244628938
<b>Grand Total</b>	7888.1247075227
<b>Say For Unit 1 (Grand Total/1)</b>	7888.1247075227

<b>Item 3</b>
<b>R.C.C. Work (AR0404A):</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. complete and as per direction of Engineer-in charge. (excluding centring and shuttering)
Sub-Item of Work <b>Reinforced cement concrete work of M-20 grade with 20mm &amp; down grade size black hard crusher broken granite chips</b>

<b>a) Specific Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
<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.	537.2	1865.85676	335.8542168
<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>b) Carriage Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM340</b> : Cement	3.4733	1 Qntl.	24.787	86.0926871	0
<b>BRM028</b> : Screened and washed sharp sand for mortar	0.45	1 Cum	1009.11	454.0995	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.	601.51	216.5436	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.	601.51	324.8154	0

<b>c) Royalty Rate Details</b>					
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.	1125.5	405.18	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.	1125.5	607.77	0

<b>Total Amount (a+b+c)</b>	6524.4664471
<b>Total GST (a)</b>	335.8542168
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	514.5240497925
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	553.11335352694
<b>LABOUR CESS @ 1% (+)</b>	79.279580672194
<b>Grand Total</b>	8007.2376478916
<b>Say For Unit 1 (Grand Total/1)</b>	8007.2376478916

<b>Item 4</b>
<b>R.C.C. Work (AR0409):</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.

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
LR001 : Male mulia	8	Per day	462	3696	0
LR046 : Blacksmith	3	Per day	612	1836	0
LR010 : Mate	0.44	Per day	512	225.28	0
BRM162 : Binding Wire.	8	1 Kg.	90	720	0
BRM341 : Steel	10.5	1 Qntl.	6186.01	64953.105	11691.5589

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM341 : Steel	10.5	1 Qntl.	24.787	260.2635	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM341 : Steel	10.5	1 Qntl.	0	0	0

<b>Total Amount (a+b+c)</b>					71690.6485
<b>Total GST (a)</b>					11691.5589
<b>OVERHEAD CHARGES @ 7.5% (+)</b>					6253.665555
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>					6722.690471625
<b>LABOUR CESS @ 1% (+)</b>					963.58563426625
<b>Grand Total</b>					97322.149060891
<b>Say For Unit 1 (Grand Total/10)</b>					9732.2149060891

**Item 5**

**R.C.C. Work (AR0410c):** 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

Sub-Item of Work

**R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc**

**a) Specific Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0267	1Cum.	58374.79	1558.606893	0
BRM092 : Non-sal bullahs 75mm. mean dia of any length.	1.26	1Mtr.	30.81	38.8206	0
LR008 : Sangi mulia	0.5	Per day	512	256	0

LR027 : Carpenter	0.5	Per day	562	281	0
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<b>b) Carriage Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0267	1Cum.	198.296	5.2945032	0
BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.00614	1Mtr.	198.296	1.21753744	0

<b>c) Royalty Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
BRM104 : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0267	1Cum.	0	0	0
BRM092 : Non-sal bullahs 75mm. mean dia of any length.	0.00614	1Mtr.	0	0	0

<b>Total Amount (a+b+c)</b>	2140.93953364				
<b>Total GST (a)</b>	0				
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	160.570465023				
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	172.61324989972				
<b>LABOUR CESS @ 1% (+)</b>	24.741232485627				
<b>Grand Total</b>	2498.8644810484				
<b>Say For Unit 1 (Grand Total/10)</b>	249.88644810484				

<b>Item 6</b>
<b>Earth Work (AR0115):</b> 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 <b>Filling foundation and plinth with sand well watered and rammed</b>

<b>a) Specific Rate Details</b>					
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>b) Carriage Rate Details</b>					
Particular	Quantity	Unit	Rate	Amount	GST
BRM029 : Sand for filling and road blinding	100	1 Cum	1009.11	100911	0

<b>c) Royalty Rate Details</b>					
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>	158040.32				
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<b>Total GST (a)</b>	0
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	11853.024
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	12742.0008
<b>LABOUR CESS @ 1% (+)</b>	1826.353448
<b>Grand Total</b>	184461.698248
<b>Say For Unit 1 (Grand Total/100)</b>	1844.61698248

### Item 7

**R.C.C. Work (AR0410d):** 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

Sub-Item of Work

**Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting**

#### a) Specific Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	2.32	1Mtr	51.87	120.3384	0
<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0218	1Cum.	58374.79	1272.570422	0
<b>LR008</b> : Sangi mulia	2.75	Per day	512	1408	0
<b>LR027</b> : Carpenter	2.75	Per day	562	1545.5	0

#### b) Carriage Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.0238	1Mtr	198.296	4.7194448	0
<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0218	1Cum.	198.296	4.3228528	0

#### c) Royalty Rate Details

Particular	Quantity	Unit	Rate	Amount	GST
<b>BRM084</b> : Sal bullahs 75mm. to 120mm. mean dia up to 5.5m. long.	0.0238	1Mtr	0	0	0
<b>BRM104</b> : Non Sal wood scantling & plants(Tentera, Kasi, Gamhari, Kuruma)	0.0218	1Cum.	0	0	0

<b>Total Amount (a+b+c)</b>	4355.4511196
<b>Total GST (a)</b>	0
<b>OVERHEAD CHARGES @ 7.5% (+)</b>	326.65883397
<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	351.15824651775
<b>LABOUR CESS @ 1% (+)</b>	50.332682000878
<b>Grand Total</b>	5083.6008820886
<b>Say For Unit 1 (Grand Total/4.2)</b>	1210.3811624021

**Item 8**

**Masonry Brick Work (AR0603bi):** 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  $\pm 8$  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.

Sub-Item of Work

**Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in superstructure**

**a) Specific Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
LR002 : Female mulia	0.14	Per day	462	64.68	0
BRMMR0025 : SCAFFOLDING CHARGES FOR BRICK MASONRY WORK	1	1 Cum	33	33	0
LR001 : Male mulia	2.82	Per day	462	1302.84	0
LR025 : Mason	1.05	Per day	562	590.1	0
LR044 : Mason	0.35	Per day	612	214.2	0
BRM340 : Cement	0.672	1 Qntl.	537.2	360.9984	64.979712
BRM028 : Screened and washed sharp sand for mortar	0.28	1 Cum	76.88	21.5264	0
BRM005 : 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 $\pm 2$ %	350	1000 Nos	5.14255	1799.8925	0

**b) Carriage Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM340 : Cement	0.672	1 Qntl.	24.787	16.656864	0
BRM028 : Screened and washed sharp sand for mortar	0.28	1 Cum	1009.11	282.5508	0
BRM005 : 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 $\pm 2$ %	350	1000 Nos	1.65925	580.7375	0

**c) Royalty Rate Details**

Particular	Quantity	Unit	Rate	Amount	GST
BRM340 : Cement	0.672	1 Qntl.	0	0	0
BRM028 : Screened and washed sharp sand for mortar	0.28	1 Cum	442.25	123.83	0
BRM005 : 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 $\pm 2$ %	350	1000 Nos	0	0	0

**Total Amount (a+b+c)**

5391.012464

**Total GST (a)**

64.979712

**OVERHEAD CHARGES @ 7.5% (+)**

409.1994132

<b>CONTRACTOR PROFIT @ 7.5% (+)</b>	439.88936919
<b>LABOUR CESS @ 1% (+)</b>	63.0508095839
<b>Grand Total</b>	6368.1317679739
<b>Say For Unit 1 (Grand Total/1)</b>	6368.1317679739

**Santosh Kumar Prusty**  
**JE**  
**Khaira Block**

**Bibhuti Bhusan Nayak**  
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**Khaira Block**

**Narayan Sahu**  
**BDO**  
**Khaira Block**