

**BOOKLET OF ESTIMATE.**

**Name of work :- Construction Of  
Smashanbhumi At \_\_\_\_\_ Tq.Ashti  
Dist.Beed.**

**UNDER :- M.G.N.R.E.G.A 2021-22**

**RS. 882000.00 LK**

Name of work :- Construction Of Smashanbhumi At\_\_\_\_\_ Tq.Ashti Dist.Beed.

UNDER :- M.G.N.R.E.G.A 2021-22

**GENERAL ABSTRACT**

SR.No.	Particular	Total Cost Of Work	Unskilled Amount	Skilled Amount	Skilled Portion Under (15 th F.C )	Skilled Portion Under MGNAREGA
1	Const.Of Bazar Otta	881786.00	199849.00	681937.00	333,017.00	348,922.00
		Ratio	22.66	77.34		
			%	%		

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

**Name of work :- Construction Of Smashanbhumi At\_\_\_\_\_ Tq.Ashti  
Dist.Beed.**

**UNDER :- M.G.N.R.E.G.A 2021-22**

## **GENERAL REPORT**

Construction Of Smashanbhumi At\_\_\_\_\_ Tq.Ashti Dist.Beed. ( G.P LEVEL) .  
M.G.N.R.E.G.A 2022-23

Excavation for foundation in earth. Soils of all types sand, gravel and soft murum including removing the excavated material

Excavation for foundation in earth. Hard Murum including removing the excavated material upto a distance of 50 m.

Providing and laying in situ. Cement concrete M-10 / 1:3:6 of trap / granite / quartzite / gneiss metal for foundation and bedding

Providing and laying in situ cement concrete M-20 of trap / granite / quartzite / gneiss metal for reinforced cement concrete work in foundation

Providing and laying in situ cement concrete M-20 of trap / granite / quartzite / gneiss metal for reinforced cement concrete columns

Providing and casting in situ cement concrete M-20 of trap / granite / quartzite / gneiss metal for reinforced cement concrete beams and lintels

Providing second class Burnt Brick masonry with conventional / Indian standard type bricks in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls

Providing and Filling in pinth and floors with contractor's soil, sand or murum in 15 cm

Providing and casting in situ cement concrete M-20 of trap / granite / quartzite / gneiss metal for reinforced cement concrete slabs and landing

Providing and casting in situ cement concrete M-20 of trap / granite / quartzite / gneiss metal for reinforced cement concrete chajja

Providing and fixing in position\_\_\_\_\_ reinforcement of various diameters for reinforcement concrete pile caps,

Providing and fixing in position Mild Steel reinforcement of various diameters for reinforcement concrete

Providing Second Class Burnt Brick masonry with conventional / Indian standard type bricks in cement mortar 1:6 in superstructure

Providing and fixing jungle wood frame 60 mm X 100 mm. for second class doors,

Providing and fixing in position P.V.C.Door shutters of standard size with P.V.C. shutters frame 59 mm. x 29 mm.

The rates are adopted as per PWD SSR 2021-2022 years.

Estimated cost Rs.8,82,000/-

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name of work :- Construction Of Smashanbhumi At \_\_\_\_\_ Tq.Ashti Dist.Beed.

UNDER :- M.G.N.R.E.G.A 2021-22

GENERAL ABSTRACT

SR NO.	PARTICULARS	TOTAL COST	SKILLED AMT	UNSKILLED AMT
1	COST OF Smashanbhumi	881,786.00	681937.00	199849.00
	<b>GRAND TOTAL ( A+B+C )RS.</b>	<b>881786.00</b>	<b>681937.00</b>	<b>199849.00</b>

	MATERIAL : LABOUR RATIO	100%	77.34	22.66
			%	%

**TOTAL** 881,786.00

**Say** 882000.00

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name of work :- Construction Of Smashanbhumi At _____ Tq.Ashti Dist.Beed.									
UNDER :- M.G.N.R.E.G.A 2021-22									
<b>Abstract (PART-A)</b>									
	DESCRIPTION	Qty	Unit	Total Rate	Rate		Amount Of		Total Amount
					Unskilled	Skilled	Unskilled	Skilled	
	Item No. 1 Excavation for foundation in earth. Soils of all types including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.02 P.No.187	13.26	CU.M	207.00	207.00	-	2745.00	0.00	2745.00
	Item No. 2 Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.06 P.No.153	8.10	CU.M	227.00	227.00	-	1839.00	0.00	1839.00
	Item No. 3 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/ grit, ramming, watering etc. complete.It.No.21.40 P.No.157	4.19	CU.M	1,925.53	436.00	1,489.53	1826.00	6238.00	8064.00
	Item No. 4 Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.24.01 P.No.176	7.31	CU.M	6,400.48	1616.00	4,784.48	11810.00	34965.00	46775.00

<p>Item No. 5 Providing and laying in situ/ Ready Mix cement concrete M-20 of trap/ granite / quartzite/ gneiss metal for R.C.C. work in foundations like raft , strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water ,formwork, laying/ pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.25.11 P.No.180</p>	2.59	CU.M	7,558.23	2110.00	5,448.23	5469.00	14122.00	19591.00
<p>Item No. 6 Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor it no.25.31 p.no.183</p>	1.87	Cum	14,350.79	5252.00	9,098.79	9823.00	17018.00	26841.00
<p>Item No. 7 Providing and laying Cast in situ/ Ready Mix cement concrete M-20 of trap / granite / quartzite/ gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including centering,formwork, cover blocks, laying/ pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand ( I.NO.25.50 , P.NO.186 )</p>	4.39	Cum	12,836.79	5085.00	7,751.79	22346.00	34065.00	56411.00
<p>Item No.8 Providing and laying Cast in situ/Ready Mix cement concrete M- 20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor l Sand It.No.25.70 P.No.190</p>	6.10	Cum	14,510.79	5988.00	8,522.79	36497.00	51946.00	88443.00

Item No.9 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.Itno.26.33 p.no.23	1.12	MT	90,051.11	11762.00	78,289.11	13190.00	87792.00	100982.00
Item No.10 Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete. It.no.28.01 P.no.14	6.03	Cum	5,236.78	2513.00	2,723.78	15165.00	16437.00	31602.00
Item No. 11 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer incharge in layers of 15 cm to 20cm including watering and compact ion etc. complete.It.No.21.37 P.No.201	10.98	Cum	1,011.68	135.00	876.68	1483.00	9629.00	11112.00
Item No. 12 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete It.No.32.05 P.No.260	123.02	Sqm	299.24	204.00	95.24	25096.00	11717.00	36813.00
Item No.13 providing and applying two coats of water proof cement paint of approved colour spec. no.bd.o.8 Page No. 406 ( page no.241 it no.35.14	123.02	Sqm	78.00	50.00	28.00	6151.00	3445.00	9596.00
Item No.14 Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at etc.complete ( page no.241 it no.46.39	95.50	Rgm	2,539.00	329.00	2,210.00	31420.00	211055.00	242475.00
Item No.15 Providing and fixing mild steel grill gate as per the detailed drawing including hinges, locking arrangements and painting in three coats of oil paint of approved colour and shade etc. complete.(weight 18 Kilogram. to 20 Kilogram. Per Sq.m.) Spec.Number: As directed by Engineer- in-charge it no.23.09	7.20	Sqm	2,100.00	267.00	1,833.00	1922.00	13198.00	15120.00



Item No. 16 Providing and laying cement concrete flooring 40 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30 cm x 30 cm or other size laid diagonally /square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete.with Crushed sand VSI Gradelt.No.33.09 P.No.156	36.00	Sqm	536.00	308.00	228.00	11088.00	8208.00	19296.00
Item No.17 Shavdahini	1.00	Nos	75,000.00		75,000.00	0.00	75000.00	75000.00
<b>Total Work Portion</b>						<b>197870.00</b>	<b>594835.00</b>	<b>792705.00</b>
Item No.18 GST Charges 12%	12%						71380.00	71380.00
Item No.19 Labour Insurance 1%	1%					1979.00	5948.00	7927.00
Item No.20 Testing Charges								
Compressive Strenght Of CC Cube	1.00		690.00				690.00	690.00
Item No.21 Royalty Charges								
A) Royalty Charges For Sand	15.09		237.37				3583.00	3583.00
B) Royalty Charges For Other Minerals	25.45		216.18				5501.00	5501.00
<b>Total Value of work Rs.</b>						<b>199849.00</b>	<b>681937.00</b>	<b>881786.00</b>

<b>Part A) Labour Cost For MGNREGA Rs</b>	<b>199,849.00</b>	<b>Unskilled</b>	<b>36.42</b>	<b>36%</b>
<b>Part B) Material Cost For MGNREGA Rs.</b>	<b>348,922.00</b>	<b>Skilled</b>	<b>63.58</b>	<b>64%</b>
	<b>Total</b>			
	<b>548,771.00</b>			
<b>Part C) Material Cost For 15 Th F.C ( G.P )</b>	<b>333,017.00</b>			

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name of work :- Construction Of Smashanbhumi At _____ Tq.Ashti Dist.Beed.									
UNDER :- M.G.N.R.E.G.A 2021-22									
<b><u>Abstract (PART-C)</u></b>									
	DESCRIPTION	Qty	Unit	Total Rate	Rate		Amount Of		Total Amount
					Unskilled	Skilled	Unskilled	Skilled	
	Item No. 1 Excavation for foundation in earth. Soils of all types including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.02 P.No.187	13.26	CU.M	207.00	207.00	-		0.00	0.00
	Item No. 2 Excavation for foundation in Hard Murum including removing the excavated material upto a distance of 50 m. beyond the building area stacking and spreading as directed, preparing the bed for the foundation and necessary back filling, ramming, watering etc. It.no.21.06 P.No.153	8.10	CU.M	227.00	227.00	-		0.00	0.00
	Item No. 3 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/ granite, ramming, watering etc. complete.It.No.21.40 P.No.157	4.19	CU.M	1,925.53	436.00	1,489.53		6238.00	6238.00
	Item No. 4 Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.24.01 P.No.176	7.31	CU.M	6,400.48	1616.00	4,784.48		34965.00	34965.00

<p>Item No. 5 Providing and laying in si tu/ Ready Mix cement concrete M-20 of t rap/ grani te / quar tzi te/ gneiss metal for R.C.C. work in foundat ions like raft , st r ip foundat ions, gr i llage and foot ings of R.C.C. columns and steel stanchions etc. including bai ling out water ,formwork, laying/ pumping cover blocks, compact ion and cur ing roughening the sur face i f special finish is to be provided (Excluding reinforcement and st ructural steel) etc. complete, wi th fully automat ic micro processor based PLCwi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. Wi th natural sand/ V.S.I. quali ty Ar t i ficial Sand It.No.25.11 P.No.180</p>	2.59	CU.M	7,558.23	2110.00	5,448.23		14122.00	14122.00
<p>Item No. 6 Providing and laying Cast in si tu/ Ready Mix cement concrete M-20 of t rap / grani te / quar tzi te/ gneiss metal for R.C.C. columns as per detai led designs and drawing or as directed including center ing, formwork, cover blocks, laying/ pumping, compact ion finishing the formed sur faces wi th cement mor tar 1:3 of sufficient minimum thickness to give a smooth and even sur face or roughening i f special finish is to be provided and cur ing etc. complete,(Excluding reinforcement and st ructural steel).wi th fully automat ic micro processor it no.25.31 p.no.183</p>	1.87	Cum	14,350.79	5252.00	9,098.79		17018.00	17018.00
<p>Item No. 7 Providing and laying Cast in si tu/ Ready Mix cement concrete M-20 oft rap / grani te / quar tzi te/ gneiss metal for R.C.C. beams and lintels asper detai led designs and drawings or as directed including center ing,formwork, cover blocks, laying/ pumping, compact ionand rougheningthe sur face i f special finish is to be provided and cur ing etc. complete.(Excluding reinforcement and st ructural steel). wi th fully automat icmicro processor based PLCwi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. Wi thnatural sand/ V.S.I. quali ty Ar t i ficial Sand ( I.NO.25.50 , P.NO.186 )</p>	4.39	Cum	12,836.79	5085.00	7,751.79		34065.00	34065.00

<p>Item No.8 Providing and laying Cast in situ/Ready Mix cement concrete M- 20 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete.(Excluding reinforcement and structural steel).with fully automatic micro processor I Sand It.No.25.70 P.No.190</p>	6.10	Cum	14,510.79	5988.00	8,522.79		51946.00	51946.00
<p>Item No.9 Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.Itno.26.33 p.no.23</p>	1.12	MT	90,051.11	11762.00	78,289.11		87792.00	87792.00
<p>Item No.10 Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete. It.no.28.01 P.no.14</p>	6.03	Cum	5,236.78	2513.00	2,723.78		16437.00	16437.00
<p>Item No. 11 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer incharge in layers of 15 cm to 20cm including watering and compact ion etc. complete.It.No.21.37 P.No.201</p>	10.98	Cum	1,011.68	135.00	876.68		9629.00	9629.00
<p>Item No. 12 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete It.No.32.05 P.No.260</p>	123.02	Sqm	299.24	204.00	95.24		11717.00	11717.00

	Item No.13 providing and applying two coats of water proof cement paint of approved colour spec. no.bd.o.8 Page No. 406 ( page no.241 it no.35.14	123.02	Sqm	78.00	50.00	28.00		3445.00	3445.00
	Item No.14 Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at etc.complete ( page no.241 it no.46.39	95.50	Rgm	2,539.00	329.00	2,210.00		0.00	0.00
	Item No.15 Providing and fixing mild steel grill gate as per the detailed drawing including hinges, locking arrangements and painting in three coats of oil paint of approved colour and shade etc. complete.(weight 18 Kilogram. to 20 Kilogram. Per Sq.m.) Spec.Number: As directed by Engineer- in-charge it no.23.09	7.20	Sqm	2,100.00	267.00	1,833.00		13198.00	13198.00
	Item No. 16 Providing and laying cement concrete flooring 40 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30 cm x 30 cm or other size laid diagonally /square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete.with Crushed sand VSI GradeIt.No.33.09 P.No.156	36.00	Sqm	536.00	308.00	228.00		8208.00	8208.00
	Item No.17 Shavdahini	1.00	Nos	75,000.00		75,000.00		0.00	0.00
	<b>Total Work Portion</b>						<b>0.00</b>	<b>308780.00</b>	<b>308780.00</b>
	Item No.12 GST Charges 12%	12%						37054.00	37054.00
	Item No.13 Labour Insurance 1%	1%					0.00	3088.00	3088.00

	Item No.14 Testing Charges								
	Compressive Strenght Of CC Cube	1.00		690.00				0.00	0.00
	Item No.15 Royalty Charges								
	A) Royalty Charges For Sand	15.09		237.37				0.00	0.00
	B) Royalty Charges For Other Minerals	25.45		216.18				0.00	0.00
	<b>Total Value of work Rs.</b>							<b>0.00</b>	<b>348922.00</b>
								<b>348922.00</b>	<b>348922.00</b>

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

**Name of work :- Construction Of Smashanbhumi At \_\_\_\_\_ Tq.Ashti Dist.Beed.**

**UNDER :- M.G.N.R.E.G.A 2021-22**

**Abstract (PART-C)**

DESCRIPTION	Qty	Unit	Total Rate	Rate		Amount Of		Total Amount
				Unskilled	Skilled	Unskilled	Skilled	
Item No.14 Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at etc.complete [ page no.241 it no.46.39	95.50	Rgm	2,539.00	329.00	2,210.00		211055.00	211055.00
Item No.17 Shavdahini	1.00	Nos	75,000.00		75,000.00	0.00	75000.00	75000.00
<b>Total Work Portion</b>						<b>0.00</b>	<b>286055.00</b>	<b>286055.00</b>
Item No.12 GST Charges 12%	12%						34327.00	34327.00
Item No.13 Labour Insurance 1%	1%						2861.00	2861.00
Item No.14 Testing Charges								
Compressive Strenght Of CC Cube	1.00		690.00				690.00	690.00
Item No.15 Royalty Charges								
A) Royalty Charges For Sand	15.09		237.37				3583.00	3583.00
B) Royalty Charges For Other Minerals	25.45		216.18				5501.00	5501.00
<b>Total Value of work Rs.</b>						<b>0.00</b>	<b>333017.00</b>	<b>333017.00</b>

Deputy Engineer  
Z.P. (Work) Sub div.Ashti





**Item No. 5** Providing and laying in situ/ Ready Mix **cement concrete M-20** of trap/ granite / quartzite/ gneiss metal **for R.C.C. work in foundations** like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including baling out water, formwork, laying/ pumping cover blocks, compacting and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand **It.No.25.11 P.No.180**

**For column footing**

<b>Column</b>	4	X	1.20	X	1.20	X	0.45	=	2.59
									<b>2.59</b> Cum

**Item No. 6** Providing and laying Cast in situ/ Ready Mix **cement concrete M-20** of trap / granite / quartzite/ gneiss metal **for R.C.C. columns** as per detailed designs and drawing or as directed including centering, formwork, cover blocks, laying/ pumping, compacting finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete, (Excluding reinforcement and structural steel). with fully automatic micro processor **it no.25.31 p.no.183**

			<b>Column Upto GL</b>						
C	4	X	0.23	X	0.38	X	0.75	=	0.26
			<b>GL To Pl</b>						
C	4	X	0.23	X	0.38	X	0.60	=	0.21
			<b>PL To First Slab</b>						
C	4	X	0.23	X	0.38	X	2.50	=	0.87
			<b>First Slab To Second</b>						
C	4	X	0.23	X	0.38	X	1.50	=	0.52
									<b>1.87</b> Cum

**Item No. 7** Providing and laying Cast in situ/ Ready Mix **cement concrete M-20** of trap / granite / quartzite/ gneiss metal **for R.C.C. beams and lintels** as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/ pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand ( **I.NO.25.50 , P.NO.186** )

**Plinth Beam**

B1	2	X	3.54	X	0.23	X	0.38	=	0.62
B2	2	X	3.24	X	0.23	X	0.38	=	0.57
B3	2	X	3.54	X	0.23	X	0.38	=	0.62
B4	2	X	3.24	X	0.23	X	0.38	=	0.57
B5	8	X	0.75	X	0.23	X	0.38	=	0.52
B6	2	X	3.54	X	0.23	X	0.38	=	0.62
B7	2	X	3.24	X	0.23	X	0.38	=	0.57
B8	8	X	0.45	X	0.23	X	0.38	=	0.31
									<b>4.39</b> Cum

**Item No.8** Providing and laying Cast in situ/Ready Mix **cement concrete M- 20** of trap/ granite / quartzite/ gneiss metal **for R.C.C. slabs** and landings as per detailed designs and drawings including centering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic micro processor l Sand **It.No.25.70 P.No.190**

**Slab**

2	X	5.50	X	0.75	X	0.1	=	0.83	
2	x	4.00	x	0.75	x	0.1	=	0.60	
4	x	5.50+6.15/2	x	0.45	x	0.100	=	1.05	
4	x	1/2x4	x	2.35	x	0.100	=	1.88	
2	x	4.90	x	0.45	x	0.100	=	0.44	
2	x	4.00	x	0.45	x	0.100	=	0.36	
4	x	4.90+5.55/2	x	0.45	x	0.100	=	0.94	
								<b>6.10</b>	<b>Cum</b>

**Item No.9** Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.Itno.26.33 p.no.236

<b>TMT</b>	<b>Qty Cum</b>	<b>X</b>	<b>Kg. / Cum</b>	<b>=</b>	
footings	2.59	X	75.00	=	194.40
columns	1.87	X	75.00	=	140.28
beams	4.39	X	75.00	=	329.59
slab	6.10	X	75.00	=	457.13
					1121.39
					1.121 M.T.
				=	<b>1.12</b> M.T.

**Item No.10** Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete. It.no.28.01 P.no.146

**Plinth**

<b>For Otta</b>	2	X	6.00	X	0.45	X	0.550	=	2.97
	2	X	5.10	X	0.45	X	0.550	=	2.52
<b>Step</b>	1	X	4.00	X	0.60	X	0.150	=	0.36
	1	X	4.00	X	0.30	X	0.150	=	0.18
								<b>6.03</b>	<b>Cum</b>

**Item No. 11** Fi lling in plinth and floors wi th cont ractors mater ial/ brought fromoutside and approved by Engineer incharge in layers of 15 cm to 20cm including water ing and compact ion etc. complete.It.No.21.37 P.No.201

<b>Platform</b>	1	x	3.54	x	3.54	x	0.500	=	6.27
<b>Otta</b>	1	x	5.10	x	5.10	x	0.350	=	9.10
<b>Deduct Platform</b>	1	x	3.54	x	3.54	x	0.350	=	4.39
								<b>10.98</b>	

**Total = 10.98 Cum**

**Item No. 12** Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete It.No.32.05 P.No.260

	1	x	4	x	5.50	x	0.75	=	16.50
	1	x	4	X	4.00	x	0.75	=	12.00
<b>Sloping Slab</b>	2	x	4	X	5.50+6.15/2	x	0.45	=	20.97
<b>Second Slab Beam</b>	1	x	8	x	1/2x4	x	1.20	=	19.20
<b>Second Slab Projection</b>	4	x	4.9	x	0.45			=	8.82
	4	x	4	x	0.45			=	7.20
<b>Sloping Slab</b>	2	x	4	x	4.90+5.55/2	x	0.45	=	18.81
<b>Column</b>	4	x	2	x	0.23	x	4.00	=	7.36
	4	x	2	x	0.38	x	4.00	=	12.16
									<b>123.02</b> sqm
								<b>Total =</b>	<b>123.02</b> Cum

**Item No.13** providing and applying two coats of water proof cement paint of approved colour spec. no.bd.o.8 Page No. 406 ( page no.241 it no.35.14

Qty As Per It.No.

**Total = 123.02 Sqm**

**Item No.14** Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at etc.complete ( page no.241 it no.46.39

Wire Fencing

**Total = 95.50 Rgm**

**Item No.15** Providing and fixing mild steel grill gate as per the detailed drawing including hinges, locking arrangements and painting in three coats of oil paint of approved colour and shade etc. complete.(weight 18 Kilogram. to 20 Kilogram. Per Sq.m.) Spec.Number: As directed by Engineer- in-charge it no.46.39

**Gate 1 x 4.5 x 1.6 Total = 7.20 Sqm**

**Item No. 16** Providing and laying cement concrete flooring 40 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30 cm x 30 cm or other size laid diagonally /square etc finishing smooth (with extra cement) in any colour as directed and curing etc. complete.with Crushed sand VSI GradeIt.No.33.09 P.No.156

Flooring

1 x 6 x 6 = 36 Sqm

**Item No.17** Shavdahini = 1 Nos

**Item No.18** Add GST = 12%

**Item No.19** Add Labour Insurance = 1%

**Item No.20** Testing Charges  
Compressive Strenght Of CC Cube

= 

1.00
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 Nos

**Item No.21** Royalty Charges  
A) For Sand  
B) For Minerals

= 

15.09
-------

 Cum  
= 

25.45
-------

 Cum

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name of work :- Construction Of Smashanbhumi At \_\_\_\_\_ Tq.Ashti Dist.Beed.

UNDER :- M.G.N.R.E.G.A 2021-22

**RATE ANALYSIS**

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**Item.No.1**

Providing **soling using 80 mm size trap metal in 15 cm.** layer including filling voids with Crushed sand/ grit , ramming, watering etc. complete.It.No.21.40 P.No.157

<b>Rates As Per SSR 2022-23</b>				<b>1454.00</b>	<b>Cum.</b>
Add lead for Metal	1.00	x	393.44	=	393.44
Add lead for Sand	0.15	x	410.55	=	61.58
Add Diff.Cost for Sand	0.15	x	110.00	=	16.50
				<b>1925.53</b>	<b>Cum.</b>

**Item No.2**

Providing and laying Cast in situ/ Ready Mix **cement concrete in M-10** of trap/ granite/ quartzite/ gneiss metal **for foundation and bedding** including bailing out water , formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand **It.No.24.01 P.No.226**

<b>Rates As Per SSR 2022-23</b>				<b>5830.00</b>	
Deduct For Non Scada				=	120
Add lead charges for cement	0.22	x	348.11	=	76.58
Add lead charges for sand	0.47	x	410.55	=	192.96
Add Diff.Cost Of Sand	0.47	x	110.00	=	51.70
Add lead charges for 40mm metal	0.70	x	393.44	=	275.41
Deduct Diff.Cost For 40mm Metal	0.70	x	5.00	=	3.50
Add lead charges for 20mm metal	0.24	x	410.55	=	98.53
Deduct Diff.Cost.Of 20 MM Metal	0.24	x	5.00	=	1.20
				<b>6400.48</b>	<b>Cum</b>

**Item No.3**

Providing and laying Cast in situ/ Ready Mix **cement concrete M-20** of 100mm / granite / quartzite/ gneiss metal **for R.C.C. beams and lintels** as per detailed designs and drawings or as directed including centering, formwork, cover blocks, laying/ pumping, compacting and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand **( I.NO.25.50 , P.NO.234 )**

<b>Rates As Per SSR 2022-23</b>					<b>12269.00</b>
Deduct For Non Scada			=		120
Add lead charges for cement	0.35	x	348.11	=	121.84
Add lead charges for sand	0.425	x	410.55	=	174.48
Add Diff.Cost Of Sand	0.425	x	110.00	=	46.75
Add lead charges for 20mm metal	0.57	x	410.55	=	234.01
Deduct Diff.Cost.Of 20 MM Metal	0.57	x	5.00	=	2.85
Add lead charges for 10/12mm metal	0.28	x	410.55	=	114.95
Deduct Diff.Cost.Of 10/12 MM Metal	0.28	x	5.00	=	1.40
					<b>12836.79</b> Cum

**Item No 4**

Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, parapets, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete. **It.no.26.33 p.no.245**

<b>Rates As Per SSR 2022-23</b>					<b>89703.00</b>
Add lead charges for steel	1.00	x	348.11	=	348.11
					<b>90051.11</b> Cum

**Item No.5**

Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20cm including watering and compacting etc. complete. **It.No.21.37 P.No.201**

<b>Rates As Per SSR 2022-23</b>					<b>795.00</b>
Add lead charges for murum	1.00	x	211.68	=	211.68
Add Diff Cost for murum	1.00	x	5.00	=	5.00
					<b>1011.68</b> Cum

**Item No.6**

Providing second class Burnt Brick masonry with conventional/ I.S.type bricks in cement mortar 1:6 in foundations and plinth of innerwalls/ in plinth external walls including baling out water manually, striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete. It.no.27.01 P.no.254

<b>Rates As Per SSR 2022-23</b>					<b>7755.00</b>	<b>cum</b>
Add lead charges for cement	0.079	x	348.11	=	27.50	
Add lead charges for sand	0.32	x	410.55	=	131.38	
Add Diff.Cost Of Sand	0.320	x	110.00	=	35.20	
Add lead charges for Brick For 1 Cum	1.00	x	560.56	=	560.56	
					<b>8509.64</b>	<b>cum</b>

**Item No.7**

Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and complete. It.No.32.05 .No.221

<b>Rates As Per SSR 2022-23</b>					<b>289.00</b>	
Add lead charges for cement	0.007	x	348.11	=	2.44	
Add lead charges for sand	0.015	x	410.55	=	6.16	
Add Diff.Cost Of Sand	0.015	x	110.00	=	1.65	
					<b>299.24</b>	<b>Cum</b>

**Item No.8**

Providing and laying in situ/ Ready Mix **cement concrete M-20** of trap/ granite / quartzite/ gneiss metal **for R.C.C. work in foundations like raft**, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including baling out water, formwork, laying/ pumping cover blocks, compact ion and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. With natural sand/ V.S.I. quality Artificial Sand **It.No.25.11 P.No.230**

<b>Rates As Per SSR 2022-23</b>					<b>7104.00</b>	
Deduct For Non Scada				=	120	
Add lead charges for cement	0.35	x	348.11	=	121.84	
Add lead charges for sand	0.425	x	410.55	=	174.48	
Add Diff.Cost Of Sand	0.425	x	110.00	=	46.75	
Add lead charges for 20mm metal	0.57	x	410.55	=	234.01	
Deduct Diff.Cost.Of 20 MM Metal	0.57	x	5.00	=	2.85	
					<b>7558.23</b>	<b>Cum</b>

**Item No.9**

Providing and laying Cast in si tu/ Ready Mix **cement concrete M-20** of t rap / grani te / quar tzi te/ gneiss metal **for R.C.C. columns** as per detai led designs and drawing or as directed including center ing, formwork, cover blocks, laying/ pumping, compact ion finishing the formed sur faces wi th cement mor tar 1:3 of sufficient minimum thickness to give a smooth and even sur face or roughening i f special finish is to be provided and curing etc. complete,(Excluding reinforcement and st ructural steel).wi th fully automat ic micro processor based PLC wi th SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer ) etc. complete. Wi thnatural sand/ V.S.I. quali ty Ar t i ficial Sand **it no.25.31 p.no.232**

<b>Rates As Per SSR 2022-23</b>				<b>13783.00</b>
Deduct For Non Scada			=	120
Add lead charges for cement	0.35	x	348.11	= 121.84
Add lead charges for sand	0.425	x	410.55	= 174.48
Add Diff.Cost Of Sand	0.425	x	110.00	= 46.75
Add lead charges for 20mm metal	0.57	x	410.55	= 234.01
Deduct Diff.Cost.Of 20 MM Metal	0.57	x	5.00	= 2.85
Add lead charges for 10/12mm metal	0.28	x	410.55	= 114.95
Deduct Diff.Cost.Of 10/12 MM Metal	0.28	x	5.00	= 1.40
				<b>14350.79</b> Cum

**Item No.10**

Providing and laying Cast in si tu/ Ready Mix **cement concrete M-20** o t rap/ grani te / quar tzi te/ gneiss metal **for R.C.C. slabs and landings** asper detai led designs and drawings including center ing, formwork,cover blocks, laying/ pumping, compact ionfinishing the formedsur faces wi th cement mor tar 1:3 of sufficient minimum thickness to give a smooth and even sur face or roughening i f special finish is to beprovided and curingcomplete,(Excluding reinforcement andst ructural steel).wi th fully automat icmicro processor based PLC wi thSCADA enabled reversible Drum Typemixer / concrete Batch mix plant(Pan mixer ) etc. complete. Wi th natural sand/ V.S.I. quali ty Ar t i ficial **itno.25.70 p.no.236**

<b>Rates As Per SSR 2022-23</b>				<b>13943.00</b>
Deduct For Non Scada			=	120
Add lead charges for cement	0.35	x	348.11	= 121.84
Add lead charges for sand	0.425	x	410.55	= 174.48
Add Diff.Cost Of Sand	0.425	x	110.00	= 46.75
Add lead charges for 20mm metal	0.57	x	410.55	= 234.01
Deduct Diff.Cost.Of 20 MM Metal	0.57	x	5.00	= 2.85
Add lead charges for 10/12mm metal	0.28	x	410.55	= 114.95
Deduct Diff.Cost.Of 10/12 MM Metal	0.28	x	5.00	= 1.40
				<b>14510.79</b> Cum



**Item No.11**

Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.

**It.no.28.01 P.no.146**

**Rates As Per SSR 2022-23**

					<b>5025.00</b>
Add lead charges for cement	0.085	x	348.11	=	29.59
Add lead charges for sand	0.35	x	410.55	=	143.69
Add Diff.Cost Of Sand	0.350	x	110.00	=	38.50
Add lead charges for Brick for 1 cum	1.00	x	0.00	=	0.00
					<b>5236.78</b> Cum

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name of work :- Construction Of Smashanbhumi At \_\_\_\_\_ Tq.Ashti Dist.Beed.

UNDER :- M.G.N.R.E.G.A 2021-22

**Lead Chart**

Sr.No	Material	Quarry	Lead in Kms	Lead Charges	Pay Load Factor	Net Lead Charges
1	40mm & 60 mm Metal	-----	15	2360.66	6.00	393.44
1	Metal Below 40mm	-----	15	2360.66	5.75	410.55
3	Sand	-----	15	2360.66	5.75	410.55
4	Murum	-----	2.5	1270.05	6.00	211.68
5	Steel	-----	20	3481.08	10.00	348.11
6	Cement	-----	20	3481.08	10.00	348.11
7	Brick	-----	20	3481.08	3.105	1121.12

**CERTIFICATE**

- 1 Certified that no construction material is available at lesser distance than above shown leads.
- 2 Certified that good quality and sufficient quantity material available in shown quarry.
- 3 Certified that the distances shown above are verified by me and found correct.

**प्रमाणपत्र**

प्रमाणित करण्यात येते कि, अंदाजपत्रकात प्रस्तावित करण्यात आलेले काम इतर कोणत्याही योजनेतून झालेले नाही किंवा प्रस्तावित करण्यात आलेले नाही.

करिता प्रमाणपत्र देण्यात येत आहे.

Deputy Engineer  
Z.P. (Work) Sub div.Ashti

Name of work :- Construction Of Smashanbhumi At \_\_\_\_\_ Tq.Ashti Dist.Beed.

UNDER :- M.G.N.R.E.G.A 2021-22

**Material Requirement As per THEROTICAL CONSUMPTION**

Sr.no.	DESCRIPTION	As per Estimate			Cement		Metal				Sand		Steel		Murum		Brick		Unit
		Qty	Rate	Amount	Rate of Consumption	Total cement in bag	Rate of consumption in below 40mm stone	Total below 40mm stone	Rate of consumption in 40 mm & above stone	Total 40mm & above stone	Rate of consumption	Sand in cum	H.Y.S.D	Mild	Rate of consumption	Murum in cum	Rate of consumption	Total Brick in No.	
1	2	3	4	5	6	7	8	9	10	11	12	13							14
1	Item No.3 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/ grit, ramming, watering etc. complete.It.No.21.40 P.No.157	4.19	-	0.00					1.00	4.19	0.15	0.6282							
2	Item No.4 Providing and laying Cast in situ/ Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.24.01 P.No.176	7.31	-	0.00	4.40	32.16	0.24	1.75	0.70	5.12	0.47	3.4348							
5	Item No.5 Providing and laying in situ/ Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork, laying/ pumping cover blocks, compacting and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/ V.S.I. quality Artificial Sand It.No.25.11 P.No.180	14.95	-	0.00	7.00	104.662824	0.85	12.71			0.425	6.3545							
9	Item No.10 Providing uncoursed rubble masonry of trap/ granite/ quartzite/ gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on unexposed faces and watering etc. complete. It.no.28.01 P.no.14	6.03			1.70	10.25865					0.35	2.1121							
11	Item No.11 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer incharge in layers of 15 cm to 20cm including watering and compacting etc. complete.It.No.21.37 P.No.201	10.98	-												1	10.983			
12	Item No.16 Providing and laying cement concrete flooring 40 mm thick with M15 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30 cm x 30 cm or other size laid diagonally /square etc finishing smooth (with extra cement) in any	36.00			0.33	11.88					0.02	0.72							
16	Item No.12 Providing internal cement plaster 12mm thick in single coat in cement mortar 1:3 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete It.No.32.05 P.No.260	123.02			0.14	17.2228					0.015	1.8453							
						176.179474		14.46		4.19		15.095				10.983			

8.8089737

Deputy Engineer  
Z.P. (Work) Sub div.Ashti