GOVERNMENT OF RAJASTHAN

PUBLIC WORKS DEPARTMENT

ESTIMATE

FOR

Name of work :Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

ESTIMATED COST RS. 85.95 LACS

NAME OF CIRCLE: SAWAI MADHOPUR

NAME OF DIVISION: II SAWAI MADHOPUR

NAME OF SUB DIVISION: CHOUTH KA BARWARA

Technical Report

Name of work

Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

Distrcit

Sawai Madhopur

Ref . Of Sanction

Location

Bagina to Jhopra

Proposed Length of road (km.)

4.700 KM

Necessity of Project

Presently this road was badly damaged and KM 0/650 to 0/850 are sanctioned previously but disputed by Forest Department this chainage uncomplete. So smooth riding quality road repair work is necessary.

Formaling width : 7.50 M

Specification

The following specification taken in this estimate

- i) Road Work
- i) GSB 150mm for carriageway & 150mm both side for berms
- iii) WMM 150 mm thick
- iv(Tack coat with 20mm PMC & Seal coat (B)
- v) CC M-30
- vi) HPC Double row

vii) Drain work

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Estimate Renewal CKB to Nayagaon (3.9.18)

viii) Protection wall

Execution of work The work shall be executed by department after inviting tender

Labour Skilled and unskilled labour are avilable from local area

Basis of Rates : Current BSR of PWD Circle, Sawai Madhopur w.e.f. 23.3.2018 for Road work .

Estimate cost (Rs. In Lacs) : Rs. 85.95 Lacs

Prorata Charges. : 3.50 % Contigency charges 1% QC charges & 13% Proratra charges are added in the Estimate.

Asistant Engineer
PWD Sub Division
Chouth Ka Barwara

सा.नि.वि. खण्ड द्वितीय स.मा.

Name of work : Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

GENERAL ABSTRACT

S.No.	Particulars	AMOUNT
1	PART 'A' ROAD WORK	6182406.00
2	PART 'C' HPC DOUBLE ROW	372216.00
4	PART 'D ' DRAIN WORK	537306.00
5	PART 'E PROTECTION WALL	186435.00
	GRAND TOTAL	7278363.00
	Add 3.50% for Contigency charges	
1	Add 1% for QC	
	GRAND TOTAL	7605889.34
	Add 13% Prorata charges	
		8594654.95
	Say	85.95 Lacs

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Assistant Engineer PWD Sub Div. Chouth Ka Barwara

Estimate Renewal CKB to Nayagaon (3.9.18)

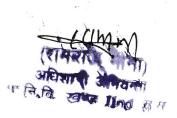
Estimate

Name of work : Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

PART 'A' ROAD WORK

Based on PWD BSR 23 March 2018 for Road work PWD Circle SWM

).).	BSR Ref	Description of Item	No.	L	В	Н	Qty	Unit	Rate Rs	Amount Rs
	(B)	Clearing and Grubbing Road Land .(Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness.) By mechanical means in Areea of throney jungle								
			2	4300.00	2.00		17200.00	Sqm		Acceptant
					ii.	Total	17200.00	Sqm		
						Say	1.72	Hect	10449.00	17972.00
	3.15	Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2.								
	į		1	200.00	7.50	0.300	450.00			
4		For Berms	2	4300.00	1.00	0,300	2580,00			
\bot	ţ			1		Total	3030.00	Cum	54.00	163620.00



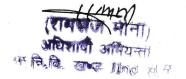
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BSR D. Ref	Description of Item	No.	L	В	Н	Qty	Unit	Rate Rs	Amount Rs
4.2	Granular Sub-Base with Coarse Graded Material (Table:-400-2) (Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401)								
(iii)	for grading-III Material				4.				
	Ch 0/0 to 2/500	1	250.00	4.05	0.150	151.875			
	Ch 0/650 to 0/850	1	200.00	4.05	0.150	121.50			
	Ch 4/550 to 4/750	1	200.00	4.05	0.150	121.50			
	For BT Berms	2	4000.00	1.00	0.100	800.00			
	For CC Berms	2	550.00	1.00	0.200	220.00			
				9	Total	1414.88	Cum	519.00	734320.00
4.12	Wet Mix Macadam (Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.)								
						5		,	
-	For Detail would	11	650.00	3.75	0.150	365,63			· · · · · · · · · · · · · · · · · · ·
	For Patch work	1	4000.00	3.75	0.075*3%	33.75		4000.00	440554.00
5.1	Prime coat (Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means.)				Total	399.38	Cum	1033.00	412554.00
		1.02	200.00	3.75		765.00	Sqm	20.00	15300.00



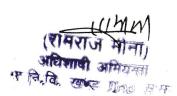
o.	BSR Ref	Description of Item	No.	L	В	Н	Qty	Unit	Rate Rs	Amount Rs
	5.2	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.								
			1.02	4000.00	3.75		15300,00		70 7 A.	
1						, 1	15300.00	Sqm	7.00	107100.00
	5.1	Open - Graded Premix Surfacing (Providing, laying and rolling of open - graded premix surfacing of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or cut-back or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a smooth wheeled roller 8-10 tonne capacity, finished to required level and grades.)								
2	(i)	Case - I: Mechanical method using Penetration grade Bitumen and HMP of appropriate capacity not less than 75 tonnes/hour								
		Using VG-30 binder	1.02	4000.00	3.75		15300.00	Sqm	86.00	1315800.00
	513 5.12	Seal Coat (Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A and B seal coats)			1.1					
	(i)	Case - I : Type B						2		7 D
			1.02	4000.00	3.75		15300.00	Sqm	34.00	520200.00
D	8.14	Kilo Metre Stone (Reinforced cement concrete M15grade kilometre stone of standard design as per IRC:8-1980, fixing in position including painting and printing etc)								
	(ii)	Ordinary Kilometer stone (Precast)					5	Nos.	1391.00	6955.00
	(iii)	Hectometer stone (Precast)					20	Nos.	404.00	8080.00





D.	BSR Ref	Description of Item	No.	L	В	н	Qty	Unit	Rate Rs	Amount Rs
		Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retroreflectorised sign asper IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing)								
			2.00	0.90	1.20		2.16	Sqm	7384.00	15949.00
2		Retro- reflectorised Traffic signs (Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing)								
		90 cm equilateral triangle					6.00	No	3614.00	21684.00
2					8		2			
\dashv					With the state of					
\dashv										
	9.1 (A)	(Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.)							(रामराज	(MM) भाना)
		यधियाची अभियन्ता	1	550.00	3.75	0.100	206.25	-	अधिशाषी नि,वि. खण	अमियन्ता :

). -	BSR Ref	Description of Item	No.	L	В	н	Qty	Unit	Rate Rs	Amount Rs
							206.25	Cum	3139.00	647419.00
		Cement Concrete Pavement (Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing)					200.23	Cum	3139.00	647419.00
	8									
			1	550.00	3.75	0.200	412.50			
				000.00	0.70	Total	412.50	Cum	5205.00	2147063.00
9,	*	Laying Reinforced cement concrete pipe NP4/prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets . 300mm dia							3200.00	2147000.00
			6	2.00	2.50		30.00			***************************************
+							30.00	Rmţ	1613.00	48390.00
					V			Total		6182406.00



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(CULVERTS AND SMALL BRIDGES)

Name of work : Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

Ch. 0/	825
SI.	*

SI. No.	2	Description of Item		Measur	ement	Quantity	Unit	Rate Rs	Amount Rs
1		2		3		4	5	6	7
PAR	Т-В	: HUME PIPE CULVERT 1000MM DIA DOUBLE RO	W C		1 No's				
1		Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means							
		upto 3 mtr depth				3 3 × 100	i ii		
		Splayed Wing Walls	4 x	As per IRC:SP:20-20		98.04			
-		Spiayed wing walls	4 X	4.00 x	(1.55 + 1.15) x 1.500	32.40			
_	0.4	BL		6	Total :	130.44	P.Cum	80.00	10435.00
2	9.1 (i)	Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.		As per IRC:SP:20-20	002 Plate No. 7 01	4.01			,
		Splayed Wing Walls	4 x	4.00 x	(1.55 + 1.15) x 0.150 2	3.24			
	10.1		- Carrier - Carr		Total :	7.25	P.Cum	2609.00	18915.00
3	a	Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary		As per IRC:SP:20-20	002 Plata No. 7 01	39.72	v.		
		Splayed Wing Walls	4 x	4.00 x	(1.20 + 0.40) x 2.425	31.04			
					Total:	70.76	P.Cum	2145 00	2225 42 22
4	12.8	Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications			Total:	70.76	r.cum	3145.00	222540.00
	C	RCC Grade M20 Using concrete mixer	1	As per IRC:SP:20-20	002 Plate No. 7.01	14.54			———
	1	The state of the s	7		Jamm	11.01			

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(CULVERTS AND SMALL BRIDGES)

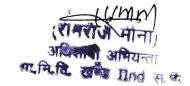
Name of work : Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

Ch. 0/825

SI. No.		Description of Item		Measu	rement		Quantity	Unit	Rate Rs	Amount Rs
1		2			3		4	5	6	7
		For Coping	2 x	7.88 x	0.40	0.075	0.47		2 - 2	
		Splayed Wing Walls	2 x	4.00 x	0.40	0.075	0.24			
			*				15.25	P.Cum	3888.00	59303.00
5		Laying Reinforced cement concrete pipe NP4/prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets . 1000mm dia				· 2				
			А	s per IRC:SP:20-	2002 Plate No. 7.	01 ,	15.00	P.Rmt	3940.00	59100.00
6	13.2	Pointing with cement mortar (1:3) on brick work in substructure as per Technical specifications					8 0	-	*	1 e - 1
7				2.00 x	7.88	1.80	28.37			
		Deduction for Pipes					4.75			
	-	And the second s					23.62			
		Splayed Wing Walls	4 x	4.00 x	(1.80 + 0.60) 2)	19.20		**************************************	
			,			Total :	42.82	P.10 Sqm	449.00	1923.00
u			emerkining						Total	372216.00
22	7.	\rightarrow	mm					For	1 Nos	372216.00

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Assistant Engineer PWD Sub Div. Chouth Ka Barwara



Name of work : Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

).).	BSR Ref	Description of Item		М	easure	ement		Unit	Qty.	Rate Rs	Amount Rs
		2			3			4	5	6	7
٩F	T-C:	DRAIN WORK									
	ø	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth									
	ř		e.				· · · · · · · · · · · · · · · · · · ·				
			1	400.00		1.05	0.60	P.Cum	252.00		
Н								P.Cum	252.00	80.00	20160.00
	9.1 (i)	Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.									
			1	400.00		1.05	0.10	P.Cum	42.00		
Ц	10.0						Total	P.Cum	42.00	2609.00	109578.00
	12.6	Brick masonry work in cement mortar 1:3 in foundation complete excluding pointing and plastering, as per drawing and technical specifications									
			2	400.00	C	.225	0.50	P.Cum	90.00		
\sqcup		(//mm)					Total	P.Cum	90.00	3338.00	300420.00

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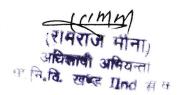
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Name of work : Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

l. D.	BSR Ref	Description of Item		Me	easurement		Unit	Qty.	Rate Rs	Amount Rs
		2			3		4	5	6	7
	13.3	Plastering with cement mortar (1:3) on brick work in substructure as per Technical specifications								
			2	400.00	0.50	-	P.Sqm	400.00		
							P.10 Sqm	400.00	921.00	36840.00
	12.8	Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications			*					
\perp	C	RCC Grade M20 Using concrete mixer	2	400.00	0.225	0.05	P.Cum	9.00		
\dashv	•		1	400.00	0.45	0.05	P.Cum	9.00		
\dashv	,						Total	18.00	3906.00	70308.00
		Total							Total	537306.00

अधिशाषी अभियन्ता सा.नि.वि. खण्ड हितीय स.मा.

Assistant Engineer PWD Sub Div. Chouth Ka Barwara



Estimate

Name of work : Renewal of Road from Chouth Ka Barwara to Nayagaon KM 0/0 to 4/750

Details & Abstract

Part K": PROTECTION WALL

Based on PWD BSR 23.03.2018 for Road work PWD Circle SWM

Description of Item	No.	L	В	н	Qty	Unit	Rate Rs	Amount Rs
Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing.				- ,	5 3 4 9		, ,	
						2		
	27 8		- 19					
1								
	1.00	30.00	1.15	1.500	51.75			0 2
				Total	51.75	80.00	P.Cum	4140.00
40 mm nominal size mechanically mixed, placed in foundation			*	7				
and compacted by vibration including curing for 14 days.					×			
						26 G		
	1.00	30.00	1.15	0.150	5.18			
				Total	5.175	2609.00	P.Cum	13502.00
Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary	ñ						- 2	
	1.00	30.00	1.00+0.40/2	2.50	52.50			
				Total	52.50	3145.00	P.Cum	165113.00
Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	ımn		1		1111	2m	ď	Aug.
RCC Grade M20					1	15/		-
	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth 1.00 Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. 1.00 Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary 1.00 Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth 1.00 30.00 Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. 1.00 30.00 Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary 1.00 30.00 Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth 1.00 30.00 1.15 Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. 1.00 30.00 1.15 Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary 1.00 30.00 1.00+0.40/2 Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth 1.00 30.00 1.15 1.500 Total Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. 1.00 30.00 1.15 0.150 Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary 1.00 30.00 1.00+0.40/2 2.50 Total Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth 1.00 30.00 1.15 1.500 51.75 Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. 1.00 30.00 1.15 0.150 5.18 Total 5.175 Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary 1.00 30.00 1.00+0.40/2 2.50 52.50 Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth 1.00 30.00 1.15 1.500 51.75 Total 51.75 30.00 Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. 1.00 30.00 1.15 0.150 5.18 Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary 1.00 30.00 1.00+0.40/2 2.50 52.50 Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil manual means upto 3 mtr depth 1.00 30.00 1.15 1.500 51.75 Total 51.75 80.00 P.Cum Plain cement concrete 1:4:8 mix with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. 1.00 30.00 1.15 0.150 5.18 Total 5.175 2609,00 P.Cum Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and Technical Specifications Random rubble masonary 1.00 30.00 1.00+0.40/2 2.50 52.50 Total 52.50 3145.00 P.Cum Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications

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अधिशाषी अभियन्ता

D.	BSR Ref	Description of Item	No.	L	В	н	Qty	Unit	Rate Rs	Amount Rs
+	40.0	Using concrete mixer	1.00	30.00	0.40	0.05	0.60	3888.00	P.Cum	2333.00
	13.2	Pointing with cement mortar (1:3) on brick work in substructure as per Technical specifications							· · · · · ·	2000.00
4	7		1.00	30.00	1.00		30.00	<u> </u>		
+							30.00	449.00	P.10 Sqm	1347.00
									Total	186435.00

अधिशाषी अभियन्ता साज्ञां खण्ड द्वितीय स.मा.

Assistant Engineer PWD Sub Div. Chouth Ka Barwara

(रामराज मीना) अधिशावी अभियन्ता मा.मि.वि. खण्ड Und स.ण