

GOVERNMENT OF RAJASTHAN
PUBLIC WORKS DEPARTMENT

ESTIMATE

For

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM
TRIVENI ROAD TO BRAHMANI MATA
TEMPLE KM. 0/00 TO 0/600

PACKAGE NO. : RJ-16-15/NEW ROAD/PLAN/2018-19

JOB NO. : 752/5054/New Road/Plan/GN/2018-19 Rs. 24.73
752/5054/New Road/Plan/SC/2018-19 Rs. 6.42
752/5054/New Road/Plan/ST/2018-19 Rs. 4.85

ESTIMATED COST : Rs. 36.00 Lacs

NAME OF CIRCLE : P.W.D. RURAL CIRCLE, JAIPUR

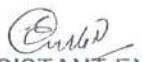
NAME OF DIVISION : P.W.D. DISTT. DN. SHAHPURA, JAIPUR

NAME OF SUB. DN. : P.W.D. SUB. DN. SHAHPURA

✓

TECHNICAL REPORT

Name of Work	: CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD TO BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600
JOB NO.	: 752/5054/New Road/Plan/GN/2018-19 Rs. 24.73 752/5054/New Road/Plan/SC/2018-19 Rs. 6.42 752/5054/New Road/Plan/ST/2018-19 Rs. 4.85
PACKAGE NO.	: RJ-16-15/NEW ROAD/PLAN/2018-19
Scope of work	: BT - 0.145, Interlocking Tile - 0.30 Total : 0.445 and Protection work
Name of Division	: P.W.D. Distt. Dn. Shahpura, Jaipur
Name of Sub Division	: P.W.D. Sub. Dn. Shahpura
A.F. Sanction	: एफ.7(69) / अनु.-2 / 2018-19 डी-10 दिनांक 11.04.2018 RS : 36.00 Lacs
Necessity	: Brahmani Mata Temple is old Temple and Religious place hence it is necessary to provide approach road upto temple.
Specification For BT Road	: The following specification has been adopted for this work : 1 Sub base - GSB 10 Cm 2 Base Course Gr.1 75mm thick 3 Base Course Gr.2 75mm thick 4 20mm PMC with Seal Coat type B (VG-30) over Primer and tack Coat 5 PCC 1:3:6 (75mm thick) 6 Interlocking tile M-30 100 Thick 7 Road Furniture taken in estimate as per requirement 8 Compensation Provision for Forest lane Ch. 0/028 to 0/445 (0.562 Hect.) taken LS Rs 5.00 Lacs in Estimate.
CC Road	
Labour	: The skilled and unskilled labour is locally available.
B.S.R.	: Rates are based on P.W.D. Rural Circle, Jaipur BSR effective from March, 2018 with all subsequent Corrigendum
Estimated Cost	: Rs. 36.00 Lacs
Agency	: This work will be executed by the P.W.D after calling competitive tenders from registered contractors.


ASSISTANT ENGINEER
P.W.D. SUB. DN. SHAHPURA

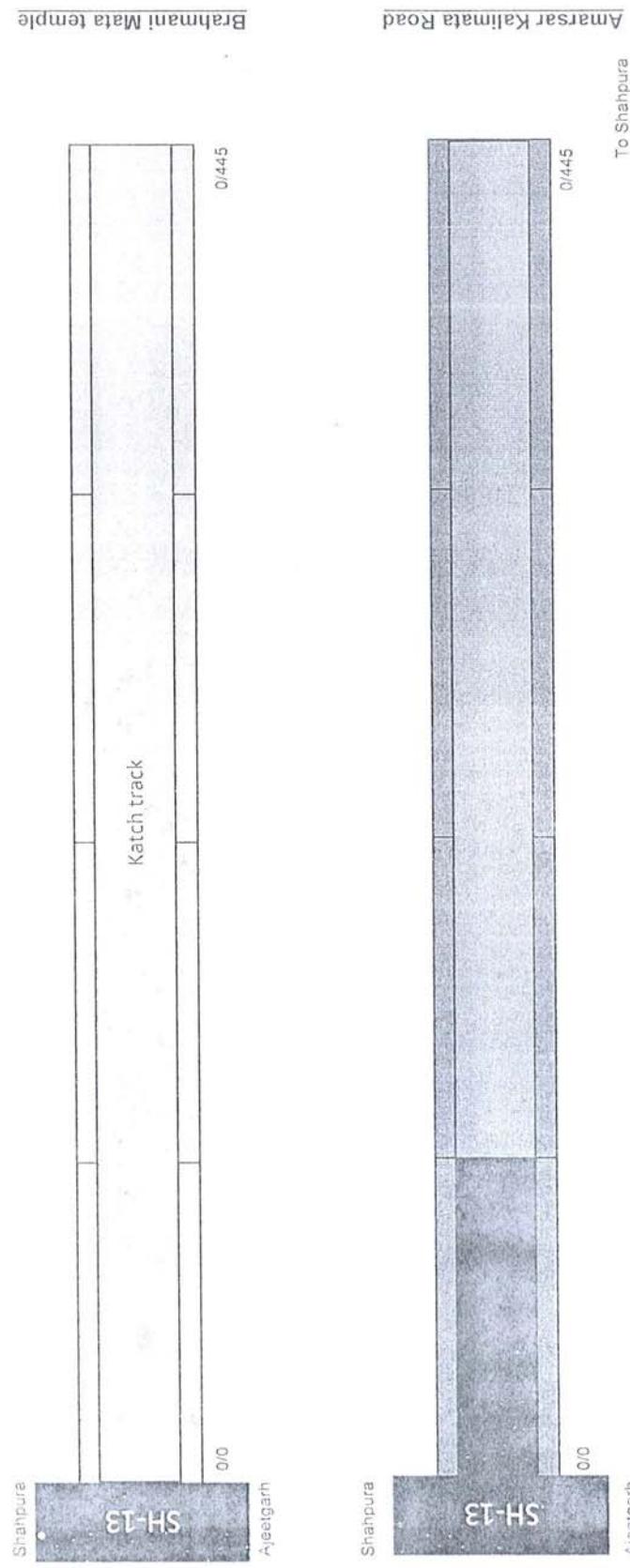
NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD TO BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

BLOCK MAP



NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD TO BRAHMANI MATA TEMPLE KM.
0/00 TO 0/600

LINEAR CHART



Index :-

1	Katcha Track
2	Proposed BT Road
3	Proposed CC Pavement
4	Old CC
5	GSB Berms
6	HPC

X

Suraj
ASSISTANT ENGINEER
P.W.D. SUB. DN. SHAHPURA

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI
ROAD TO BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

FOREST LAND CONVERTED

0/028 to 0/445	1	x	417.00	x	12.00	=	5004.00	Sqm
Curve	1	x	30.00	x	5.00	=	150.00	Sqm
0/300 to 0/326	1	x	26.00	x	15.00	=	390.00	Sqm
Turning radian Ch. 0/430	1	x	15.00	x	5.00	=	75.00	Sqm
						=	5619.00	Sqm
						=	0.562	Hect.

Parv
ASSISTANT ENGINEER
P.W.D. SUB. DN. SHAHPURA

Parv
EXECUTIVE ENGINEER
P.W.D. DISTT. DN. SHAHPURA
JAIPUR

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD
TO BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

GENERAL ABSTRACT

S. No.	Item	Amount
1	2	3
1	PART - A : ROAD WORK	2428951.00
2	PART - B : PROTECTION WORK	481383.00
3	PART - C : ROAD FURNISHING	32726.00
	Total	2943060.00
	Add. : 1% for Quality Control	29430.00
	Add. : 1.25% for Contingency	36788.00
	Total	3009278.00
	Add. : 13% for Prorata Charges	391206.00
	Total	3400484.00
	Add. : Forest Land Compatetion	200000.00
	Total	3600484.00
	Say	Rs. 36.00 Lacs

(Signature)
ASSISTANT ENGINEER
P.W.D. SUB. DN. SHAHPURA

(Signature)
EXECUTIVE ENGINEER
P.W.D. DISTT. DN. SHAHPURA
JAIPUR

No. 08 Date 16-04-18
Technically Sanctioned
For Rs 36.00 Lacs Only

(Signature)
T.A.

(Signature)
E.E.

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD TO BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

ABSTRACT

PART - A : ROAD WORK

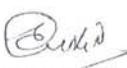
S. No.	BSR Ref.	Item	Qty	Unit	Rate	Amount
1	2	3	4	6	5	7
1	3.4 (ii)	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300-1 and 300-2 with a lead upto 50 m as per MoRTH Specification Clause 305.3	364.50	P.Cum	50.00	18225.00
2	3.8 (iii)	Excavation for roadway in ordinary rock with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, transporting to embankment site with a lift upto 1.5 m and lead upto 1000 m, trimming bottom and side slopes in accordance with requirements of lines, grades and cross-sections as per MoRTH Specification Clause 301.3.5	742.50	P.Cum	44.00	32670.00
3	3.9 (ii) (b)	Excavation for roadway in hard rock (blasting prohibited) with rock breakers including breaking rock, loading in tippers and disposal with a lift upto 1.5 m and lead upto 1000 metres, trimming bottom and side slopes in accordance with requirements of lines, grades and cross- sections as per MoRTH Specification Clause 301.3.5 Mechanical Means	315.00	P.Cum	226.00	71190.00
4	4.1 (iii)	Construction of granular sub-base by providing well graded material, spreading in uniform layers with Tractor Mount Grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per MoRTH Specification Clause 401. For Grading III Material	300.23	P.Cum	400.00	120092.00

PART - A : ROAD WORK

S. No.	BSR Ref.	Item	Qty	Unit	Rate	Amount
1	2	3	4	6	5	7
5	4.4.1 (ii) (b)	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening & binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading 1 as per MoRTH Specification Clause 404. Using Crusher Broken Aggregate By Mechanical Means	40.78	P.Cum	1000.00	40780.00
6	4.4.2 (b)	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per MoRTH Specification Clause 404. using Crusher borken aggregate By Mechanical Means	42.81	P.Cum	1050.00	44951.00
7	5.1 (i)	Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base(WBM/WMM) including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per MoRTH Specification Clause 502	543.75	P.Sqm	22.00	11963.00
8	5.2 (iii)	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion pressure distributor at the rate of 0.30 to 0.35 kg per sqm on the prepared non-bituminous surfaces (cement concrete pavement) cleaned with Hydraulic broom as per MoRTH Specification Clause 503.	543.75	P.Sqm	9.00	4894.00

PART - A : ROAD WORK

S. No.	BSR Ref.	Item	Qty	Unit	Rate	Amount
1	2	3	4	6	5	7
9	5.7 (II) (ii)	Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using Viscosity grade bitumen 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 three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per MoRTH Specification Clause 510. Case - II By Mechanical Means Bitumen (VG-30)	543.75	P.Sqm	94.00	51113.00
10	5.12 (B) (II) (ii)	Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per MoRTH Specification Clause 511 By Mechanical Means Case - II : Type B Bitumen (VG-30)	543.75	P.Sqm	31.00	16856.00
11	11.4. I (i)	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and MoRTH specifications Clause 1702, 1703, 2102 & 2104 P.C.C grade M 10 Nominal mix 1:3:6	124.13	Cum	2550.00	316532.00
12	6.3 (iv) (b)	Providing and Laying of Interlocking M-30 grade Concrete Block Pavements having thickness 100 mm as per drawings and as per IS 15658:2006.and all materials shall conform to MoRTH Specification Clause 602. with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks. Category 'B' : Dentated only two side like I,Z,T shape as per IRC:SP:63-2004	1655.00	Sqm	1027.00	1699685.00
		TOTAL OF PART - A				2428951.00

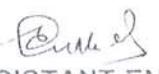

ASSISTANT ENGINEER
 P.W.D. SUB. DN. SHAHPURA

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD
TO BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

ABSTRACT

PART - B : PROTECTION WORK

S. No.	BSR Ref.	Item	Qty	Unit	Rate	Amount
1	2	3	4	6	5	7
1	11.1. 1 (i)	Earthwork in excavation for structures as per drawing and MoRTH specifications Clause 304.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil Upto 3 m depth	75.00	P.Cum	155.00	11625.00
2	11.4. 1 (i)	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and MoRTH specifications Clause 1702, 1703, 2102 & 2104 P.C.C grade M 10 Nominal mix 1:3:6	15.00	P.Cum	2550.00	38250.00
3	11.6 III(iii)	Stone masonry work in cement mortar in foundation complete as per drawing and MoRTH specifications Clauses 1402, 1405, 2102 & 2104. Random Rubble Masonry In 1:6 cement mortar	93.75	P.Cum	2050.00	192188.00
4	12.13 (B)	Providing PCC M-20 architectural coping on the top of wing wall, return wall etc. complete as per drawing and MoRTH specification Clauses 1313, 1411 and 2206.6 75 mm thick	45.00	P.Sqm	306.00	13770.00
5	10.14	Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 m high above ground, 2 m centre-to-centre, complete as per approved drawings ad MoRTH Specification Clause 809	110.00	Rmt	1545.00	169950.00
6	14.5 (i)	Providing and laying pitching on slopes laid over prepared filter media as per drawing and MoRTH specifications Clause 2504.2.1 Stone/Boulder	80.00	Cum	695.00	55600.00
TOTAL OF PART - B						481383.00


ASSISTANT ENGINEER
P.W.D. SUB. DN. SHAHPURA

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD TO
BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

ABSTRACT

PART - C : ROAD FURNISHING

S. No.	BSR Ref.	Item	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7
1	R-10.10	Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and MoRTH Specification Clause 801				
(a)	10.10.2	Ordinary Kilometer Stone (Precast)	2	Each	1439.00	2878.00
(b)	10.10.3	200 m stone (precast)	2	Each	339.00	678.00
2	10.22	Providing and fixing Mukhya Mantri Sadak Yojana/ Mahatma Gandhi Rajya Sadak Yojana informative sign board with logo for roads funded by State road fund having M.S. Definition plate of 1.60 mm thickness frame to steel hollow section of 75mm x 75mm, 2.5m long stove enamelled paint with hold fast including paint logo as per approved design and colours. The logo shall be made out of 1.6mm thick circular plate duly framed with MS angle 25x25x5 mm on back and fix on 1200mm x 150mm rectangular steel base plate 1.6mm thick, the base of circular shall be plain at the junction of base plate. The size of definition plate shall be 1500x600mm and embedding the posts by M-15 cement concrete block 45 cm x 45 cm x 60 cm, 60 cm below ground level including lettering / writing and painting etc. complete in all respects as per MoRTH Specification Clause 801.	1	Each	7774.00	7774.00

PART - C : ROAD FURNISHING

S. No.	BSR Ref.	Item	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7
3	10.2 (B) + B-II	Providing and fixing of semi reflective cautionary, mandatory and informative sign board as per IRC:67 made of 1.5 mm thick MS Sheet duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade of required shade and colour supported and welded on 47mm x 47 mm x 12 SWG sheet tube firmly fixed to the ground by mean of properly designed foundations with M-15 grade cement concrete 450x450x600 mm, 600 mm below ground level as per approved drawing and Specifications. 900 mm equilateral triangle Add extra for providing and fixing definition plate of size 600 x 400 mm including all letters with above specifications	6	Each	1641.00	9846.00
4	10.4 (B)	Providing and erecting direction and place identification of semi reflective sign boards as per IRC-67 made of 2 mm thick M.S. Sheet duly stove enameled paint white colour in front and grey colour on back with reflective border of 70 mm width and required message, letters, figures with reflective tape of engineering grade of required shade and colour. Supported and welded on two nos. 47 mm x 47 mm of 12 SWG square tube of 3050 mm height duly strengthened by 25 mm x 5 mm MS flat iron on edges on back firmly fixed to the ground by means of properly designed foundations with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Specification with size more than 0.9 sqm size board	1	P. Sqm	2869.00	3099.00

PART - C : ROAD FURNISHING

S. No.	BSR Ref.	Item	Qty	Unit	Rate	Amount
1	2	3	4	5	6	7
5	10.25	Providing and Erecting typical Citizen's information Board as per approved drawing & specification made of two MS sheet of 1.6 mm thick each of size 900mm x 750mm stiffend by angle iron 25mmx25mm x 3mm all around the plate & plates fixed on frame of 75mm dia pipe of 12 SWG sheet (vertical post 3050 mm with angle holdfasts and horizontal member 900mm) to be joined by embedded in cement concrete M-15 grade of block of 600mmx 600mm x 750 mm size below ground level as per enclosed drawings & as directed by Engineering incharge. All MS will be stove annealed on both side lettering. Figuring and border will be with ready mixed synthethic enamel paint of superior quality in required shade and colour etc complete in all respect. All sections of framed post and steel tube will be painted with primer and two coat of epoxy paint as per drawing and as per Specification.	1	Each	8451.00	8451.00
TOTAL OF PART - C						32726.00

Circle 2
ASSISTANT ENGINEER
P.W.D. SUB. DN. SHAHPURA

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD TO BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

DETAIL

PART - A : ROAD WORK

S. No.	BSR Ref.	Particulars	Measurement	Qty	
1	2	3	4	5	
1	3.4 (ii)	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300-1 and 300-2 with a lead upto 50 m as per MoRTH Specification Clause 305.3	1 x 135.00 x 6.00 x 0.45 Say	= 364.50 = 364.50 Cum	
2	3.8 (iii)	Excavation for roadway in ordinary rock with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, transporting to embankment site with a lift upto 1.5 m and lead upto 1000 m, trimming bottom and side slopes in accordance with requirements of lines, grades and cross-sections as per MoRTH Specification Clause 301.3.5	Ch. 0/135 to 0/300	1 x 165.00 x 5.00 x <u>1.50 + 0.30</u> / 2 Say	= 742.50 = 742.50 Cum
3	3.9 (ii)	Excavation for roadway in hard rock (b) (blasting prohibited) with rock breakers including breaking rock, loading in tippers and disposal with a lift upto 1.5 m and lead upto 1000 metres, trimming bottom and side slopes in accordance with requirements of lines, grades and cross- sections as per MoRTH Specification Clause 301.3.5	Mechanical Means		
		Ch. 0/300 to 0/400 (LHS)	1 x 100.00 x 3.00 x 1.05	= 315.00 = 315.00 Cum	

PART - A : ROAD WORK

S. No.	BSR Ref.	Particulars	Measurement	Qty
1	2	3	4	5
4	4.1 (iii)	Construction of granular sub-base by providing well graded material, spreading in uniform layers with Tractor Mount Grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per MoRTH Specification Clause 401. For Grading III Material		
		Ch. 0/00 to 0/445 for berms	1 x 445.00 x 4.05 x 0.10 2 x 400.00 x 1.00 x 0.15	= 180.23 Cum = 120.00 Cum = 300.23 Cum
5	4.4.1 (ii) (b)	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening & binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading 1 as per MoRTH Specification Clause 404. Using Crusher Broken Aggregate By Mechanical Means		
		Ch. 0/00 to 0/145	1 x 145.00 x 3.75 x 0.075	= 40.78 Cum = 40.78 Cum
6	4.4.2 (b)	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per MoRTH Specification Clause 404. using Crusher borken aggregate By Mechanical Means		
		Ch. 0/00 to 0/145	1 x 145.00 x 3.75 x 0.075	= 40.78 Cum

PART - A : ROAD WORK

S. No.	BSR Ref.	Particulars 3	Measurement 4	Qty 5
1	2	3	4	5
		Extra for Widening	1 x 30.00 x 0.90 x 0.075	= 2.03 Cum = 42.81 Cum
7	5.1 (i)	Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base(WBM/WMM) including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per MoRTH Specification Clause 502		
		Ch. 0/00 to 0/145	1 x 145.00 x 3.75	= 543.75 Sqm = 543.75 Sqm
8	5.2 (iii)	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion pressure distributor at the rate of 0.30 to 0.35 kg per sqm on the prepared non-bituminous surfaces (cement concrete pavement) cleaned with Hydraulic broom as per MoRTH Specification Clause 503.		
		Ch. 0/00 to 0/145	1 x 145.00 x 3.75	= 543.75 Sqm = 543.75 Sqm
9	5.7 (II)	Providing, laying and rolling of open- (ii) graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using Viscosity grade bitumen 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 three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per MoRTH Specification Clause 510. Case - II By Mechanical Means Bitumen (VG-30)		
		Ch. 0/00 to 0/145	1 x 145.00 x 3.75	= 543.75 Sqm = 543.75 Sqm

PART - A : ROAD WORK

S. No.	BSR Ref.	Particulars 3	Measurement 4	Qty 5
10	5.12	Providing and laying seal coat (B) (II) sealing the voids in a bituminous (ii) surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per MoRTH Specification Clause 511 By Mechanical Means Case - II : Type B Bitumen (VG-30) Ch. 0/00 to 0/145	1 x 145.00 x 3.75	= 543.75 Sqm = 543.75 Sqm
11	11.4.	Providing concrete for I (i) plain/reinforced concrete in open foundations complete as per drawings and MoRTH specifications Clause 1702, 1703, 2102 & 2104 P.C.C grade M 10 Nominal mix 1:3:6 Ch. 0/145 to 0/445 Extra for Widening	1 x 300.00 x 3.90 x 0.075 1 x 30.00 x 5.00 x 0.075 1 x 26.00 x 10.00 x 0.075 1 x 15.00 x 5.00 x 0.075	= 87.75 Cum = 11.25 Cum = 19.50 Cum = 5.63 Cum = 124.13 Cum
12	6.3 (iv)	Providing and Laying of Interlocking (b) M-30 grade Concrete Block Pavements having thickness 100 mm as per drawings and as per IS 15658:2006.and all materials shall conform to MoRTH Specification Clause 602. with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks. Category 'B' : Dentated only two side like I,Z,T shape as per IRC:SP:63-2004	1 x 300.00 x 3.90 1 x 30.00 x 5.00 1 x 26.00 x 10.00 1 x 15.00 x 5.00	= 1170.00 Sqm = 150.00 Sqm = 260.00 Sqm = 75.00 Sqm = 1655.00 Sqm

Chahal
ASSISTANT ENGINEER
P.W.D. SUB. DN. SHAHPURA

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD TO
BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

DETAILS

PART - B : PROTECTION WORK

SI. No.	BSR Ref.	Description of Item 3	Measurement 4	Quantity 5
1	2		4	5
1	11.1	Earthwork in excavation for I (i) structures as per drawing and MoRTH specifications Clause 304.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil Upto 3 m depth	$1 \times 100.00 \times 1.00 \times 0.75$	= 75.00 Cum
2	11.4	Providing concrete for I (i) plain/reinforced concrete in open foundations complete as per drawings and MoRTH specifications Clause 1702, 1703, 2102 & 2104 P.C.C grade M 10 Nominal mix 1:3:6	$1 \times 100.00 \times 1.00 \times 0.15$	= 15.00 Cum = 15.00 Cum
3	11.6	Stone masonry work in cement III(iii) mortar in foundation complete as per drawing and MoRTH specifications Clauses 1402, 1405, 2102 & 2104. Random Rubble Masonry In 1:6 cement mortar	$1 \times 100.00 \times \frac{0.80 + 0.45}{2} \times 1.50$	= 93.75 Cum
4	12.13	Providing PCC M-20 architectural (B) coping on the top of wing wall, return wall etc. complete as per drawing and MoRTH specification Clauses 1313, 1411 and 2206.6 75 mm thick	$1 \times 100.00 \times 0.45$	= 45.00 Sqm

PART - B : PROTECTION WORK

Sl. No.	BSR Ref.	Description of Item 3	Measurement 4	Quantity 5
1	2	3	4	5
				= 45.00 Sqm
5	10.14	Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 m high above ground, 2 m centre-to-centre, complete as per approved drawings ad MoRTH Specification Clause 809		
				= 110.00 Rmt
				= 110.00 Rmt
6	14.5 (i)	Providing and laying pitching on slopes laid over prepared filter media as per drawing and MoRTH specifications Clause 2504.2.1 Stone/Boulder	1 x 100.00 x 4.00 x 0.20	= 80.00 Cum
				= 80.00 Cum

Ar. D
ASSISTANT ENGINEER
P.W.D. SUB. DN. SHAHPURA

NAME OF ROAD : CONSTRUCTION OF CC ROAD FROM TRIVENI ROAD TO
BRAHMANI MATA TEMPLE KM. 0/00 TO 0/600

DETAIL

PART - C : ROAD FURNISHING

S. No.	BSR Ref.	Particulars	Measurement	Qty
1	2	3	4	5
1	R- 10.10	Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and MoRTH Specification Clause 801		
	(a) 10.10.2	Ordinary Kilometer Stone (Precast)	=	2 Each
	(b) 10.10.3	200 m stone (precast)	=	2 Each
2	10.22	Providing and fixing Mukhya Mantri Sadak Yojana/ Mahatma Gandhi Rajya Sadak Yojana informatory sign board with logo for roads funded by State road fund having M.S. Definition plate of 1.60 mm thickness frame to steel hollow dsection of 75mm x 75mm, 2.5m long stove enamelled paint with hold fast including paint logo as per approved design and colours. The logo shall be made out of 1.6mm thick circular plate duly framed with MS angle 25x25x5 mm on back and fix on 1200mm x 150mm rectangular steel base plate 1.6mm thick, the base of circular shall be plain at the junction of base plate. The size of definition plate shall be 1500x600mm and embedding the posts by M-15 cement concrete block 45 cm x 45 cm x 60 cm, 60 cm below ground level including lettering / writing and painting etc. complete in all respect.as per MoRTH Specification Clause 801.		
			=	1 Each

PART - C : ROAD FURNISHING

S. No.	BSR Ref.	Particulars	Measurement	Qty
1	2	3	4	5
3	10.2 (B)	<p>Providing and fixing of semi reflective + B-II cautionary, mandatory and informative sign board as per IRC:67 made of 1.5 mm thick MS Sheet duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade of required shade and colour supported and welded on 47mm x 47 mm x 12 SWG sheet tube firmly fixed to the ground by mean of properly designed foundations with M-15 grade cement concrete 450x450x600 mm, 600 mm below ground level as per approved drawing and Specifications. 900 mm equilateral triangle Add extra for providing and fixing definition plate of size 600 x 400 mm including all letters with above specifications</p>		
4	10.4 (B)	<p>Providing and erecting direction and place identification of semi reflective sign boards as per IRC-67 made of 2 mm thick M.S. Sheet duly stove enameled paint white colour in front and grey colour on back with reflective border of 70 mm width and required message, letters, figures with reflective tape of engineering grade of required shade and colour. Supported and welded on two nos. 47 mm x 47 mm of 12 SWG square tube of 3050 mm height duly strengthened by 25 mm x 5 mm MS flat iron on edges on back firmly fixed to the ground by means of properly designed foundations with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Specification with size more than 0.9 sqm size board</p>	<p>= 6 Each</p> <p>1 x 1.20 x 0.900 = 1.08 Sqm</p>	

PART'- C : ROAD FURNISHING

S. No.	BSR Ref.	Particulars	Measurement	Qty
1	2	3	4	5
5	10.25	Providing and Erecting typical Citizen's information Board as per approved drawing & specification made of two MS sheet of 1.6 mm thick each of size 900mm x 750mm stiffend by angle iron 25mmx25mm x 3mm all around the plate & plates fixed on frame of 75mm dia pipe of 12 SWG sheet (vertical post 3050 mm with angle holdfasts and horizontal member 900mm) to be joined by embedded in cement concrete M-15 grade of block of 600mmx 600mm x 750 mm size below ground level as per enclosed drawings & as directed by Engineering incharge. All MS will be stove annealed on both side lettering. Figuring and border will be with ready mixed synthetic enamel paint of superior quality in required shade and colour etc complete in all respect. All sections of framed post and steel tube will be painted with primer and two coat of epoxy paint as per drawing and as per Specification.		

= 1 Each.


 ASSISTANT ENGINEER
 P.W.D. SUB. DN. SHAHPURA

प्र. सं	जिला	खालक का नाम	खाल का नाम	विधानसभा दोप्र	सडक का नाम	सडकों की संख्या	लाई (किमी में)	अनुमानित लागत (लाखों में)	पैकेज नं	निविदा राटी
1	2	रामगढ़	रामगढ़	3	4	5	6	7		
91	रामगढ़	रामगढ़	रामगढ़	रामगढ़	मण्डामीनसिंह से पारकोडिया सडक से आठनूनी ढाणी होते हुए मीणजा सडक तक	1	2.80	88.00		
92	रामगढ़	रामगढ़	रामगढ़	रामगढ़	बोनिया नाडा से रामगढ़पुरा फुलेरा-सियानिया सडक से थरू की ढाणी	1	1.70	51.00		
93	रामगढ़	रामगढ़	रामगढ़	रामगढ़	अद्वान का यास (गाम औं का रुदान) से नाडा वाली ढाणी	1	0.50	18.00		RJ-16-14/New Road/Plan/2018-19
94	रामगढ़	रामगढ़	रामगढ़	रामगढ़	जुनासिया रुदानधानी के मन्देव से सोलाकियों की ढाणी	1	1.00	30.000		
95	रामगढ़	रामगढ़	रामगढ़	रामगढ़	दधाल से दादिया	1	2.60	95.000		
96	रामगढ़	रामगढ़	रामगढ़	रामगढ़	विश्वनाथ नीरव पथ से विश्वनाथ रामगढ़ सडक सीसी रोड	1	0.70	42.000		
97	रामगढ़	रामगढ़	रामगढ़	रामगढ़	निवेणी सडक से दहमाणी मामा बनिन्दर सी.सी. रोड	1	0.60	36.000		
98	रामगढ़	रामगढ़	रामगढ़	रामगढ़	नगल कोंजू रोड से डेरावाली ढाणी	1	0.50	15.000		
99	रामगढ़	रामगढ़	रामगढ़	रामगढ़	विश्वनाथ दृष्टिपुरा सडक से विश्वनाथपुरा सडक याया डोलियों की ढाणी	1	1.00	30.000		
100	रामगढ़	रामगढ़	रामगढ़	रामगढ़	योनावाली से यानोता दिलादर सडक तक (जुमा नोड)	1	0.90	27.000		
101	रामगढ़	रामगढ़	रामगढ़	रामगढ़	विकारपुरा से मानमोरी सडक	1	1.30	48.000		
102	रामगढ़	रामगढ़	रामगढ़	रामगढ़	गोयलपुरा से यानिया यानी	1	0.60	25.000		
103	रामगढ़	रामगढ़	रामगढ़	रामगढ़	चारसा से लानडों की ढाणी याया विदालपुरा	1	1.80	58.000		
104	रामगढ़	रामगढ़	रामगढ़	रामगढ़	निटरा रोड से राजपुरा (तेजाजी के जोहड तक)	1	1.30	40.000		
105	रामगढ़	रामगढ़	रामगढ़	रामगढ़	दिलादरपुर से भूतहरि सडक	1	2.40	75.000		
106	रामगढ़	रामगढ़	रामगढ़	रामगढ़	धानोता रोड से खेलका यानी सी.सी. रोड	1	0.60	30.000		
107	रामगढ़	रामगढ़	रामगढ़	रामगढ़	करणीसागर सडक से नायु यादव की ढाणी होकर जसवन्तपुरा सडक	1	1.00	30.000		
108	रामगढ़	रामगढ़	रामगढ़	रामगढ़	विराटगढ़ फोटपुरी से मानवाली ढाणी होकर मालेरा	1	2.00	60.000		
109	रामगढ़	रामगढ़	रामगढ़	रामगढ़	पावठा से लीनियर स्ट्रूटल के पीछे प्रामुख-लताना सडक होकर	1	1.50	45.000		
110	रामगढ़	रामगढ़	रामगढ़	रामगढ़	नीडर से निमाई सडक तक	1	1.00	30.000		
111	रामगढ़	रामगढ़	रामगढ़	रामगढ़	सातवास्त रोड से हारियाला सडक	1	0.50	15.000		
112	रामगढ़	रामगढ़	रामगढ़	रामगढ़	अम्बेडकर नगर से थालोंडों की ढाणी यादा रोड	1	0.60	18.000		
113	रामगढ़	रामगढ़	रामगढ़	रामगढ़	दड़नगर-सारणी सडक से जानादास छन्दी	1	0.80	24.000		
114	रामगढ़	रामगढ़	रामगढ़	रामगढ़	रामानी की ढाणी से बड़नगर याया किशनसिंह की कुई होकर अधूरी सडक तक	1	1.50	45.000		
115	रामगढ़	रामगढ़	रामगढ़	रामगढ़	राजनौता गोरव पथ से उल्लिसि की ढाणी सडक तक	1	1.00	30.000		
116	रामगढ़	रामगढ़	रामगढ़	रामगढ़	आतेला गोरव पथ से एन.एच.-४ तक	1	1.00	30.000		
117	रामगढ़	रामगढ़	रामगढ़	रामगढ़	कुनेड-करती गोरव पथ से पावठा शिवनगर रोड तक याया धानाकाली	1	1.00	30.000		
						10	10.90	327.00		