

MMGSUY (RRSMP)

Name of Road :- RRSMP/25-26 Chapra-2/02

Length :- 13.385

Name of Block & Sub Division :- EKMA

Bank Account Number :- IFSC Code :-

Agreement No. & Date :- 18.CMB.D/2025-26

Name & Address of Agency :- Pankaj kumar
VIII - Benaut Po - Saran P.S. - Rasulpur
Dist. Saran

A.A. Amount & Date :-

BOQ Value :- 80042632

Rate Quoted by Contractor :- 16.91% Below

Construction Cost :- 57559515 = 00

Maintenance Cost :- 8947908 = 00

Total Agreement Value :- 66507423 = 00

Performance Security :- 1330500 = 00 EBN No. 0876T02253280001

Add. Performance Security :- 6532000 = 00 EBN No. 0876T02253230003

Time Required for Work :- 12 Month

Date of Start :- 26.9.25

Date of Completion :- 25.9.26

Total No. of Item :-

Executive Engineer,

Rural Works Department,

Works Division, Chapra-2

AGP
25/11/25

25/11/25

013,
one
ran
Z6
linor
ased
ridge
ces")
vices
Sixty
Rate)

013,
one
ran
Z6
linor
ased
ridge
ces")
vices
Sixty
Rate)

Pankaj Kumar



937 18.9.25 432 कुमार AY 318956

वेनीत बाल 1000000
AGREEMENT FORM
 Chapra-2
 Date of Start :- 26.9.25
 Date of Completion :- 25.9.26
 Time Allowed :- 12 Month
 Rate :- 16.91% Below
 Below

This agreement made theday of between the RURAL WORKS DEPARTMENT (Govt. of Bihar) Authorized address at 5th floor, Vishweshwaraiya Bhawan, Jawaharlal Nehru Marg, Patna- 800013, Executive Engineer, R.W.D., Works Division, Chapra - 2 (herein after called "The E/T") of the one part, and Pankaj Kumar, Vill. - Benaut, P.O. - Saranw, P.S. - Rasulpur, Dist. - Saran (Chapra) (herein after called "The Contractor" of the other part.)

PAN No. :- AOEPK6030N GST No. :- 10AOEPK6030N1Z6

Whereas the E/T is desirous that the Contractor execute Initial Rectification, Minor Improvement, Surface Renewal, Construction of Bridge/Drainage/Protection and Performance based Rural Road contract for the Operation & Management Services of Road/Construction of Bridge Package Number. - RRSMP/25-26 Chapra-2/02 (herein after called "The Works & Services") and the E/T has accepted the Bid by the Contractor for the execution of such The Works & Services and the remedying of any defects therein, at a contract price of Rs. 6,65,07,423.00 (Six Crore Sixty Five Lakh Seven Thousand Four Hundred Twenty Three only) (16.91% Below of BOQ Rate) Tender Id - 143438 & Bid Id - 625762

Sl. No.	Block	Package No.	Name of Road	Length (Km.)	Main Work Amount	Maintenance Amount	Grand Total
1	Ekma	RRSMP/25-26 Chapra-2/02	L033 To Manikpura	0.700	5318947.00	207300.00	5526247.00

Pankaj Kumar

25/11/25
 Executive Engineer
 Rural Works Department
 Works Division, Chapra-2
25/11/25

मुख्यमंत्री ग्रामीण सड़क उपग्रह योजना (MMGSUY)

BILL OF QUANTITIES (BOQ)

Name of Road		L033 To Manikpura		District		Saran		Chhapra-2	
Block		Elvina		Division		Chhapra-2			
Length		0.700 km							
Sl. No.	Description of Items			Unit	Qty.	Rate (Rs.)	Amount (Rs.)		
1	Cleaning and Grubbing :- Cleaning and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and direction of E.I.			Ha	0.16	75360.38	12057.66		
2	Construction of Subgrade And Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and loads, transporting to site, spreading, grading to required slope and compacted to meet requirements of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1.			Cum	175.00	244.73	42827.75		
3	Permanent Quality Concrete (PQC) :- 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 the aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and curing 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 strips, dowel bar, tie rods, accessories as approved, curing compound, finishing to lines and grades as per drawing			Cum	381.47	7165.13	2733992.05		
4	Reinforced cement concrete M15 grade bitumetre local stone of standard design super IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.								
5	Non-reflected Traffic Signs: Providing and erecting direction and place identification retro-reflective sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminum sheeting, 2 mm thick with area exceeding 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos., firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.			No.	2	2758.53	5517.06		
6	Providing and fixing of retro-reflective cautionary, mandatory and informative sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminum 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 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 601			No.	3	1754.57	5254.91		
7	Providing and fixing of retro-reflective cautionary, mandatory and informative sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminum 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 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 601			Sqm	0.96	11,537.23	11075.53		
8	600 mm equilateral & triangle			No.	8	3,321.84	26574.72		
9	600 mm circular			No.	10	4,724.59	47245.90		
10	600 mm x 450 mm rectangular			No.	4	4,577.39	18309.56		
11	600 mm x 300 mm Hazard Marker			No.	2	4,577.39	9154.77		
12	600 mm side octagon			No.	2	9,004.85	18009.70		
13	Reinforced cement concrete M15 grade boundary pillar local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per drawing and Technical Specification Clause 1704			No.	3	871.73	2615.19		
14	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.								
15	Pedestrian Crossing 2 m in length and providing at 50 cm apart			Sqm	3.6	2778.42	9902.31		
16	At Edge for New & Old CC Portion			Sqm	292.00	873.88	255073.76		
17	Providing and laying of typical M&C&T informative sign board with Logo as per M&C&T specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate only welded with MS flat iron 25mm x 50 mm size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower middle plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet metal posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enamelled on both sides. Lettering and printing area will be welded to painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1			No.	3	10,132.18	30396.54		

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	BOX CULVERT	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
10	Foundation	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	164.39	397.75	65366.56
11	Providing concrete for plain reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	PCC M-20 Grade	Cum	10.38	7,369.87	76506.92
12	Providing concrete for plain reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	PCC M-20 Grade	Cum	40.03	7,369.87	295048.32
13	Supplying, fitting and placing HYSD bar reinforcement in foundation complete as per drawings and technical specifications Clause 1009 and 1202	Sub Structure	MT	2.80	65,189.21	182528.78
14	Plain reinforced cement concrete in substructure complete as per drawings and technical specifications Clause 802, 804, 805, 806, 807, 1202 and 1204	PCC M-20 Grade	Cum	30.63	7,369.87	225729.17
15	Providing weepholes in brick masonry, plain reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(M) 20(H) towards drawing face complete as per drawing and technical specification Clause 614, 709, 1204.3.7		Nos	80.00	259.42	20753.60
16	Plain reinforced cement concrete in substructure complete as per drawings and technical specifications Clause 802, 804, 805, 806, 807, 1202 and 1204	RCC M-25 Grade	Cum	29.38	7,366.71	234500.23
17	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specifications Clause 1002, 1005, 1010 & 1202		MT	2.74	65,400.17	179991.76
18	Backfilling behind abutment, wing wall and return wall complete as per drawings & technical specification Clause 1204.3.8 (With Sandy Materials)		Cum	84.33	2,329.38	196428.55
19	Providing and laying filter media with granular crushed aggregates as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and technical specification Clause 1204.3.8		Cum	38.86	3,828.12	152256.47
20	Superstructure					
20	Providing and laying reinforced cement concrete in superstructure as per drawing and technical specifications Clause 800, 1205.4 and 1205.5	RCC M-30 Grade	Cum	10.41	8,634.68	89848.18
21	Supplying, fitting and placing HYSD bar reinforcement in superstructure complete as per drawing and technical specifications Clause 1002, 1010 and 1202		MT	0.88	58,917.75	51918.58
22	Parapet Construction Plain reinforced cement concrete in substructure complete as per drawings and technical specifications Clause 802, 804, 805, 806, 807, 1202 and 1204 (M20)		Cum	4.70	7,369.87	34687.87
23	Painting on Parapet Wall (Black & White Strips) Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1101		Sqm	32.32	128.70	4159.58
24	Drainage spouts complete as per drawing and technical specifications Clause 1206		Nos	4.00	1,236.34	4947.36
25	Providing and laying cement concrete wearing course M 30 grade including reinforcement complete as per drawing and technical specifications Clause 800 and 1206.3		Cum	2.14	12,577.56	27098.28
26	Apron slab : Providing and laying reinforced cement concrete in superstructure as per drawing and technical specifications Clause 800, 1205.4 and 1205.5	RCC M-30 Grade	Cum	13.50	11,980.57	161737.68
27	PCC M15 Ordinary grade (1:2.5) levelling course below approach slab complete as per drawing and technical specifications clause 800 and 1211.		Cum	8.75	8,967.38	47029.82
28	Protection work					
28	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104		Cum	82.79	397.75	32929.09
29	Providing and laying boulder apron for bed protection with stone boulders of minimum size and weight as per Table 1300.1, no fragment weighing less than 25 kg laid dry complete as per drawing and technical specifications Clause 1301		Cum	8.12	4,083.16	33158.04
30	Providing concrete for plain reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	PCC M-20 Grade	Cum	1.85	7,369.87	13631.68
31	Providing concrete for plain reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	PCC M-20 Grade	Cum	11.27	7,369.87	83092.34

[Handwritten signature]

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
32	Dismantling Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all its and lead of 1000 m as per Technical Specification Clause 202.				
	Cement Concrete	Cum	4.5	693.60	2994.22
	Reinforced Cement Concrete	Cum	10.68	1,564.61	15771.31
33	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of brick masonry, including disposal of unserviceable material and stacking the serviceable material with all its and lead of 1000 m as per Technical Specification Clause 202.				
	Cement mortar	Cum	37.13	307.82	11421.80
	Total				5314564.35
	1% LABOUR CESS				53145.64
	Surveillance Fee				57229.46
	18 % GST				976489.19
34	Total Construction Cost			A	8401428.56
	6 YEAR MAINTENANCE COST	Quality	24.00	8723.08	209354.60
	Total				209354.60
	1% LABOUR CESS				2093.54
	Surveillance Fee				0.00
	18 % GST				38680.54
	Total Maintenance Cost			B	243208.10
	Grand Total Cost (A+B)				8693636.66
	Grand Total Cost (A+B) (in Lacs)				86.936

18/12/20

18/12/20

BoB approved from S/no. 01 to 34 for Rs. 66,50,937 = Rs. (Rupees Sixty Six lakh fifty thousand and nine hundred thirty seven only)

18/12/20

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chhapra

18/12/20

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

मुख्यमंत्री ग्रामीण सड़क उन्नयन योजना (MMGSUY)

BILL OF QUANTITIES (BOQ)

Name of Road **PMGSY Path T65 To Yoghya Harjan Tola Dom Tolatex**

Sl. No.	Block	Length	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Ekma	2.220 km	Clearing and grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or sectioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and direction of E&S	Ha	0.50	75360.38	37680.19
2			Box Cutting :- Excavation for roadway in soil using manual means for carrying of cut earth to embankment site with a lift upto 1.5 m and lead upto 50 m as per Technical Specification Clause 302.3	cum	10.40	96.35	1002.04
3			Construction of embankment with approved material deposited from road way cutting and excavation from drain and foundation of other structures and excavated with an average lead of 100 m graded and compacted to meet requirement of tables 300.1 and 300.2 as per technical specification clause 301.5 (including Royalty & Labour Cost)	Cum	6.24	75.89	472.31
4			Construction of Subgrade And Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1	Cum	1324.25	244.73	324083.70
5			Granular Sub-base with Well Graded Material (Grade II) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mowing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	Cum	45.88	2968.01	136009.40
6			Granular Sub-base with Well Graded Material (Grade III) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mowing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	Cum	30.40	2468.56	75059.63
7			Water Bound Macadam Gr-II :- 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 3 as per Technical Specification Clause 405.	Cum	74.27	5086.63	377808.42
8			Prime Coat :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70- 1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	898.33	58.87	52632.10
9			Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Primer and cured with hydrolac bloom as per technical specification clause 503.	Sqm	8923.25	19.57	135488.00
10			Tack Coat :- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface cleaned with hydraulic broom as per Technical Specification Clause 503.	Sqm	8823.25	16.34	113123.81
11			Semi Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 508 complete in all respects.	Cum	348.55	13,173.58	4591762.63
12			Pavement Quality Concrete (PQC) :- 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 3083, 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, se rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing	Cum	211.72	7,165.13	1517011.19

[Signature]

[Signature]
 18.07.25
 J.E.
 A.E.

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
13	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	No	4	2,758.83/-	11035.32/-
14	200 mm stone	No	5	784.87/-	6833.83/-
15	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Sqm	1.92	13,537.03/-	25991.10/-
16	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	No	10	3,321.84/-	33218.40/-
17	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	No	10	4,723.58/-	47235.80/-
18	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	No	5	4,577.39/-	22886.95/-
19	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	No	4	4,577.39/-	18309.56/-
20	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	No	2	8,005.58/-	16011.12/-
21	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	No	18	871.73/-	15691.14/-
22	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Each	78	1,247.52/-	97306.56/-
23	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Each	78	2,311.45/-	180292.78/-
24	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Sqm	724.00	778.40/-	563587.60/-
25	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Sqm	5.4	778.40/-	4203.36/-
26	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Sqm	164.00	871.89/-	143117.56/-
27	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	No	3	10,193.18/-	30579.43/-
28	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Cum	8.14	3,945.67/-	32320.94/-
29	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Sqm	42.88	191.98/-	8252.10/-
30	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC 8 lying in position including painting and printing, etc as per drawing and technical specification clause 1703.	Sqm	42.88	128.70/-	5518.66/-

[Signature]

[Signature]
18.07.25
J.E.
A.E.

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
24	300MM Irrigation Pipe Providing and laying of a reinforced cement concrete pipe duct 300 mm dia. across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum 50 of granular material over top and sides of RCC pipe as per IRC:811997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1987 and approved drawings.	RM	50.00	1,016.14	50807.12
	Total				8481723.00
	1% LABOUR CESS				84817.23
	Seigniorage Fee				79955.87
	18 % GST				1593734.66
	Total Construction Cost			A	10441260.57
25	6 YEAR MAINTENANCE COST	Quantity	24.00	69757.28	1674187.00
	Total				1674187.00
	1% LABOUR CESS				16741.87
	Seigniorage Fee				6681.43
	18 % GST				303368.25
	Total Maintenance Cost			B	2003156.55
	Grand Total Cost (A+B)				12444417.12
	Grand Total Cost (A+B) (in Lacs)				124.444

Boq approved from sl.No. 01 to 25 for Rs 124,44,417.20 (Rupees one crore twenty four lacs forty four thousand four hundred seventeen only)

Boq
18.07.25
Jc

Boq
18.07.25
A.E

Boq = 124,44,417.20
18.07.25
Jc

Boq
18.07.25
Jc

Boq
18.07.25
A.E

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Executive Engineer
Rural Works Department
Works Circle, Chapra
18.07.25

मुम्बई महानगरपालिका (MUMBAI)

BILL OF QUANTITIES (BOQ)

Name of Road		Bharat Madhya Vahadai To Bharat Harjan Tola Tak			
Block	Block				
Length	1.775 km				
Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Clearing and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 500mm, removal of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a head of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and direction of EI	Ha	0.40	75000.38	30144.15
2	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all bits and leas, conforming to the spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 203.1	Cum	1049.38	244.73	256014.73
3	Granular Sub-base with Well Graded Material (Grade II) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with motor grader at 400, and compacting with smooth wheel roller to achieve the desired density, conforming to per Technical Specification Clause 401	Cum	36.70	2,408.06	87705.72
4	Water Bound Macadam (Gr II) :- Providing, laying, spreading and compacting some aggregates of specific sizes to water bound macadam specification including screening 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 the top the materials of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.	Cum	61.81	5,090.63	314396.79
5	Prime Coat :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	824.08	58.87	48503.73
6	Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with primer and sealed with hydraulic broom as per technical specification clause 503.	Sqm	5450.63	18.57	100668.73
7	Bituminous Surface :- Providing and applying bituminous surface with Bitumen emulsion (MS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface treated with hydraulic broom as per Technical Specification Clause 503.	Sqm	5450.63	18.34	89063.29
8	Semi Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HWP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 508 complete in all respects.	Cum	278.27	13,173.56	365577.32
9	Pavement Quality Concrete (PQC) :- 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, de rod, armature as approved, curing compound, finishing to level and grades as per drawing	Cum	180.72	7,165.33	1294861.02
10	Reinforced cement concrete M15 grade bituminous local stone of standard design as per IRC-8 using in position including painting and pitting, etc as per drawing and technical specification clause 1703.	No.	3	2,758.83	8276.49
11	Retro-reflective Traffic Signs/Providing and erecting direction and place identification retro-reflective sign as per IRC-67 made of encapsulated lens type mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.	No.	7	764.87	5354.09
		Sqm	0.96	13,337.03	12995.65

18.07.25
J.E.

18.07.25
P.E.

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
12	Providing and fixing of retro-reflective cautionary, mandatory and informative sign as per IRC: 87 made of encapsulated two type reflective sheeting with means of properly designed foundation with M16 grade cement concrete 450 mm x 450 mm x 600 mm, 800 mm below ground level as per drawings and Technical Specification Clause 801				
	500 mm equilateral & triangle	Nos	6	3,351.64	19929.84
	600 mm circular	Nos	10	4,750.58	47505.80
	600 mm x 450 mm rectangular	Nos	2	4,577.39	9154.78
	800 mm x 300 mm Hazard Marker	Nos	6	4,577.39	27464.32
	900 mm side octagon	Nos	2	8,005.56	16011.12
13	Reinforced cement concrete M15 grade boundary pillars/focal spots of standard design as per IRC: 25, fixed in position including finishing and lettering but excluding painting as per drawing and Technical Specification Clause 1704	Nos	24	671.73	16121.52
14	Planting of Trees and their Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, using the soil with decayed farm yard/large manure, planting the saplings, tending the trench, watering, taking the tree guard and maintaining the plants for one year	Each	41	1,247.52	51148.32
15	Tree Guard With MS Iron :- Providing and fixing MS iron tree guard 60 cm dia and 2 meters high above ground level formed of 4 nos. (25 x 6 x 6 mm) and 8 nos. (25 x 3 mm) vertical MS rods fixed to 3 nos. (25 x 6 mm) iron ring in two halves bolted together with 8mm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect.	Each	41	2,311.45	94769.28
16	Providing and laying of hot applied thermoplastic compound 2.5 mm thick, including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC: 25. The finished surface to be level, uniform and free from streaks and holes.				
1	At Edge for RT Junction	Sqm	670.00	778.40	440688.00
4	At Edge for New & Old CC Junction	Sqm	3.6	778.40	2802.24
4	At Edge for New & Old CC Junction	Sqm	140.00	873.83	122344.50
17	Providing and fixing of Special ALUMINUM aluminum sign board with Logo as per MORD specifications and drawing. Three MS plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 6mm size on back on edge. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 76mm x 75 mm of 12 SWG steel tubes posts duly embedded in cement concrete M15 grade blocks of 450mm x 450mm x 600mm, 800mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All MS will be stove enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Appendix 1700.1	No.	3	10,102.16	30379.48
	PAVEMENT REPAIR				
18	Block masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 900 and 1200.4	Cum	9.21	5,985.67	55128.02
19	Plastering with cement mortar 1:4 on brick work in sub-structure as per Technical Specifications	Sqm	64.32	191.08	12348.15
20	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	64.32	128.70	8277.98

Jagdish
 18.07.25
 J.E.
 18.07.25
 A.E.

[Signature]

Executive Engineer
 Rural Works Department
 Works Division, Chhapra-2

Sr. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
21	300MM Irrigation Pipe Providing and laying of a reinforced cement concrete pipe duct 300 mm dia, across the road (free construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC 981987 bedded on a 0.3 m thick layer of granular material free of rock pieces, under to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, as per IRC: 88 - 1987 and approved drawings.	RM	30.00	1,016.14	30484.28
	Total				6312510.51
	1% LABOUR CESS				63125.11
	Seigniorage Fee				66417.13
	18 % GST				1288649.49
22	Total Construction Cost			A	8316702.24
	6 YEAR MAINTENANCE COST	Quantity	24.00	54405.54	1305733.00
	Total				1305733.00
	1% LABOUR CESS				13057.33
	Seigniorage Fee				5244.48
	18 % GST				238135.27
	Total Maintenance Cost			B	1562361.09
	Grand Total Cost (A+B)				9879063.33
	Grand Total Cost (in Lacs)				98.791

9879063.33 = 9879063.33

Jagirdar
18.07.25
S.E.
18.07.25
A.E.

12.12

BOD approved from S.No. 01 to 22 for Rs 98,79,063.33 (Rupees Ninety eight lacs seventy nine thousand six hundred and thirty three only)

18.07.25
E.O.

12.12.25
f.p.

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

18/07/25

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

गुजराती ग्रामीण सड़क उपग्रन्थ योजना (MAMABURY)

BILL OF QUANTITIES (BOQ)

Name of Road		District		Sarun	
PAGSY Road To Vashnupura Khurd Harigan Tola near Yadav Tola Tak		Chhapra-2			
Block	Extra	Division	Chapter-2		
Length	1.550 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Clearing and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removal of stumps of such trees cut earlier & disposal of unremovable materials & stacking of serviceable materials to be used or auctioned upto a head of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification Clause 201.1 and direction of E.I.	Hr	0.35	75360.36	26376.13
2	Box Cutting :- Excavation for roadway in soil using manual means for carrying of cut earth to embankment side with a lift upto 1.5 m and load upto 50 m as per Technical Specification Clause 302.3	cum	29.08	96.35	2799.93
3	Construction of embankment with approved material deposited from road way cutting and excavation from drain and foundation of other structures and excavated with an average load of 100 m graded and compacted to meet requirement of tables 300.1 and 300.2 as per technical specification clause 301.5 (including Royalty & Labour Cost)	Cum	17.44	75.69	1319.73
4	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and least Transverse to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with least upto 1000 m as per Technical Specification Clause 303.1	Cum	812.50	344.73	158943.13
5	Granular Sub-base with Well Graded Material (Grass II) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader or prepared surface, mixing by mix in place method with roller at CMC, and compacting with smooth wheel roller to achieve the desired density, concrete as per Technical Specification Clause 401.	Cum	34.67	2,968.01	102916.77
6	Granular Sub-base with Well Graded Material (Grass II) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader or prepared surface, mixing by mix in place method with roller at CMC, and compacting with smooth wheel roller to achieve the desired density, concrete as per Technical Specification Clause 401.	Cum	29.55	2,498.66	73833.14
7	Water Bound Macadam Gr II :- 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 Technical Specification Clause 403.	Cum	66.94	5,086.43	340513.61
8	Prime Coat :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.7D-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	677.72	56.87	38414.94
9	Track Coat :- Providing and applying tack coat with Bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Primer and covered with hygroscopic broom as per technical specification clause 503.	Sqm	3625.00	19.57	70855.25
10	Track Coat :- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared bituminous surface treated with hygroscopic broom as per Technical Specification Clause 503.	Sqm	3625.00	16.34	62200.50
11	Send Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transported to the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wirewheel, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 502 complete in all respects.	Cum	191.26	13,173.56	2519509.22
12	Permanent Quality Concrete (PQC) :- Construction of uni-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, sealed primer, joint sealant, debonding step, dowel bar, tie rod, structures as approved, curing compound, finishing to lines and grades as per drawing	Cum	278.43	7,165.13	1994992.82

Jagdish
 18.07.25
 J.E.
 18.07.25
 B.G.C.
 A.C.

(Signature)

Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
13	Rendered cement concrete M15 grade 10mmetre local stone of standard design as per IRC:8 being in position including painting and priming, etc as per drawing and technical specification clause 1701.	Sqm			
14	200 m stone	No.	3	2758.53	8276.49
15	Reinforced concrete Traffic Sign: Providing and erecting direction and place identification retro-reflective sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminium sheeting, 2 mm thick, with area exceeding 0.5 sqm supported on mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.	Sqm	0.96	13,537.03	12995.55
16	Providing and being of retro-reflective cautionary, mandatory and information sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 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 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.	No.	8	3,321.64	26573.12
17	600 mm circular	No.	12	4,720.59	56647.08
18	600 mm x 450 mm rectangular	No.	2	4,577.39	9154.78
19	600 mm x 300 mm Hazard Marker	No.	6	4,577.39	27464.32
20	900 mm side octagon	No.	3	8,005.96	27018.88
21	Rendered cement concrete M15 grade boundary plaster: local stone of standard design as per IRC:25, fixed in position including finishing and setting but excluding painting as per drawing and Technical Specification Clause 1704.	No.	24	671.73	16121.52
22	Planting of Trees and their Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, ensuring the soil with decayed farm yard waste manure, planting the saplings, watering, during the tree guard and maintaining the plants for one year	Each	50	1,247.52	62376.00
23	Tree Guard With MS Pipe :- Providing and being MS iron tree guard 60 cm dia and 2 metre high above ground level formed of 6 nos. (25 x 6 x mm) and 8 nos. (25 x 3 mm) vertical MS welded to 3 nos. (25 x 6 mm) iron ring in two halves bolted together with stem dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect.	Each	50	2,311.45	115572.30
24	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reinforcing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	400.00	778.40	311360.00
25	At Edge for New & Old CC Pavement	Sqm	5.4	778.40	4203.36
26	Pavement Crossing 2 m in length and providing at 50 cm apart	Sqm	220.00	873.80	192236.80
27	Providing and being of typical MARSY information sign board with Logo as per MARSY specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5mm size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 6mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 76mm x 75 mm of 12 SWG sheet metal posts duly embedded in cement concrete M15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be above enamel on both sides. Lettering and printing arrow, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	No.	3	10,193.16	30579.49
28	PAVEMENT REPAIR				
29	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	64.32	181.98	11734.15
30	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	64.32	128.70	8277.96

Jagdish
 18.07.15
 J.E.
 18.07.25
 A.E.

SL. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
23	300MM Irrigation Pipe Providing and laying of a reinforced concrete pipe duct 300 mm dia. across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fill, constructing head walls at both ends, providing a minimum 150 of granular material over top and sides of RCC pipe as per IRC: 88/1987 bedded on a 0.3 m thick layer of granular material free of rock pieces, under to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 88 - 1987 and approved drawings.	RM	30.00	1,016.14	30484.28
	Total				6392790.08
	1% LABOUR CESS				63927.90
	Swinglorage Fee				67921.63
	18 % GST				1174435.13
	Total Construction Cost			A	7639074.73
24	6 YEAR MAINTENANCE COST	Quantity	24.00	43698.29	1055559.00
	Total				1055559.00
	1% LABOUR CESS				10555.59
	Swinglorage Fee				3480.35
	18 % GST			B	1262324.74
	Total Maintenance Cost				8961908.48
	Grand Total Cost (A+B)				8961908.48
	Grand Total Cost (A+B) (in Lacs)				89.619

Bojwib
18.07.25
SE

18.07.25
R.P.E.

88 = 89,61,908 = 89.619
18.07.25
B.M.

BOR approved for SL No. 01 to 24 for Rs 89,61,908 = 89.619 (Rupees Eighty Nine lacs sixty one thousand Nine hundred Nine) only

18/8/25

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

18/8/25

18/8/25
T.A.

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

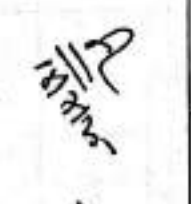
मुंबई महानगर पालिका (M.M.C.U.)

BILL OF QUANTITIES (BOQ)

Name of Road	Start To End To	District	Saran	Chapter-2	Amount (Rs.)
Block	Extra	Division			
Length	0.600 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Clearing and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removal of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and direction of E.I.	Hq	0.14	75360.38	10550.45
2	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 200.2 with lead upto 1000 m as per Technical Specification Clause 203.1.	Cum	362.50	244.73	88714.83
3	Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with primer and covered with hydnoc broom as per technical specification clause 503.	Sqm	1912.50	19.57	37427.63
4	Tack Coat :- Providing and applying tack coat with Bitumen emulsion (BS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface covered with Hydnoc broom as per Technical Specification Clause 503.	Sqm	1912.50	16.34	31250.25
5	Semi Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HAP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic power finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 508 complete in all respects.	Cum	100.41	13,173.99	1322742.01
6	Pavement Quality Concrete (PQC) :- 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, armatures as approved, curing compound, finishing to lines and grades as per drawing	Cum	51.64	7,166.13	370025.90
7	Reinforced cement concrete M15 grade bituminous local stone of standard design as per IRC:8 being in position including painting and printing, etc as per drawing and technical specification clause 1702.	No.	2	2,761.09	5522.18
8	Reinforced Traffic Signposting and existing direction and place identification retro-reflective sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminum sheeting, 2 mm thick, with area exceeding 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.	Sqm	0.96	13,537.03	12995.55
9	Providing and laying of retro-reflective catenary, mandatory and information sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminum 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 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 601	No.	6	3,321.64	19929.84
	600 mm equilateral & storage	No.	8	4,720.58	37764.72
	600 mm circular	No.	2	4,577.39	9154.78
	600 mm x 450 mm rectangular	No.	1	9,005.56	9005.56
10	Providing and laying of hot applied thermoplastic compound 2.5 mm thick, including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from breaks and holes.	Sqm	200.00	778.40	155680.00
11	At Edge for BT Portion	Sqm	1.8	778.40	1401.12
12	At Edge for New & Old CC Portion	Sqm	40.00	873.89	34955.60

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
11	Providing and fixing of typical M&S information sign board with Logo as per MCHD specifications and drawing. Three MS plates of 1.5 mm thick, top and middle plate duly welded with MS flat bar 25mm x 5mm size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG steel tubes posts duly embedded in cement concrete. It is grade below of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be store enamelled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	No.	3	10,193.16	30578.48
	Total				217324.23
	1% LABOUR CESS				2173.24
	Seigniorage Fee				15584.87
	18 % GST				39062.06
	Total Construction Cost			A	281507.50
	6 YEAR MAINTENANCE COST	Quarterly	24.00	17325.75	415818.00
	Total				415818.00
	1% LABOUR CESS				4158.18
	Seigniorage Fee				1840.17
	18 % GST				75926.34
	Total Maintenance Cost			B	43774.30
	Grand Total Cost (A+B)				3113816.80
	Grand Total Cost (in Lacs)				31.138

 = 31,13,817/-
 Mr. K. S. Srinivas
 E.E.

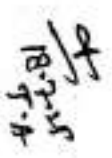
BOQ approved from sl No. 01 to 12 -for Rs 31,13,817=00 (Rupees Thirty one lakh
 Thirteen thousand Eight hundred Seventeen only).

certified copy


 18/07/18

Superintending Engineer
 Rural (Works) Deptt.
 Works Circle, Chhapra


 18-07-18


 18-7-18

- 59 -
 Superintending Engineer
 Rural (Works) Deptt.
 Works Circle, Chhapra

Executive Engineer
 Rural Works Department
 Works Division, Chhapra-2

मुळभागी प्राणीय सडक उपग्रह योजना (MUGBUY)

BILL OF QUANTITIES (BOQ)

Name of Road	Resulpur Pandey Tola To Prabhak Vadhavay Tak	District	Saran	Chapter-2	Amount (Rs.)
Block	Block	Division			
Length	0.500 km				
SL No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Cleaning and Grubbing :- Cleaning and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removal of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a head of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and direction of EN	Mts	0.11	75300.38	8289.64
2	Construction of Subgrade And Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transposing to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1	Cum	125.00	244.73	30591.25
3	Pavement Quality Concrete (PQC) :- 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, admirals as approved, curing compound, finishing to lines and grades as per drawing	Cum	228.19	7,165.13	1645903.33
4	Reinforced cement concrete M15 grade kilometre local stone of standard design slope IRC 8 lying in position including painting and printing . etc as per drawing and technical specification clause 1703.	No.	2	2,758.83	5517.66
5	200 m stone	No.	2	764.87	1529.74
6	Retro-reflectored Traffic Sign:Providing and erecting direction and place identification retro-reflectored sign as per IRC-67 made of encapsulated lens type reflective sheeting with Clause 1701.2.3, fixed over aluminum sheeting, 2 mm thick with area exceeding 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.	Sqm	0.96	13,537.03	12995.55
7	Providing and laying of retro-reflectored catenary, mandatory and advisory sign as per IRC-67 made of encapsulated lens type reflective sheeting with Clause 1701.2.3 fixed over aluminum 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 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 601	Nos	4	3,321.64	13326.56
8	600 mm equilateral & triangle	Nos	8	4,720.59	37764.72
9	600 mm circular	Nos	3	4,577.39	13732.17
10	600 mm x 450 mm rectangular	Nos	1	9,005.56	9005.56
11	600 mm side octagon				
12	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	1.8	778.40	1401.12
13	Pedestrian Crossing 2 m in length and providing at 50 cm apart)	Sqm	200.00	873.89	174778.00
14	At Edge for New & Old CC Pavement				

(Signature)

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
8	Providing and fixing of special MANGSY entrance sign board with Logo as per MORD specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5mm size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 76mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be above ground level on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	No.	3	10,193.16	30579.48
	Total				2183454.78
	1% LABOUR CESS				21834.55
	Seigniorage Fee				27745.81
	18 % GST				40307.12
	Total Construction Cost			A	2642132.26
	5 YEAR MAINTENANCE COST	Quarterly	24.00	6211.08	149766.00
	Total				149766.00
	1% LABOUR CESS				1497.86
	Seigniorage Fee				0.00
	18 % GST				27231.09
	Total Maintenance Cost			B	178514.95
	Grand Total Cost (A+B)				2820647.22
	Grand Total Cost (A+B) (in Lacs)				28.206

BOD approved from sv no. 01-10-09 for Rs 28,20,647=28 (Rupees twenty eight lakh twenty thousand six hundred forty seven only).

Certified copy

[Signature]
21/01/18

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

- 50/-
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Executive Engineer
Rural Works Department
Wardha
तुम्हारा दयालुता
18/01/18

[Signature]
18.01.18

[Signature]
18.01.18

[Signature]
28.20647 = 28
18/01/18

[Signature]

मुहूर्ताधी प्राणीय सङ्ग उद्योग योजना (MMSBY)

BILL OF QUANTITIES (BOQ)

Name of Road	Resistor Chandrah To Dheerath	District	Saran	
Block	Chma	Division	Chapra-2	
Length	0.555 km	Unit	Qty.	Rate (Rs.) Amount (Rs.)
SL No.	Description of Items	Unit	Qty.	Rate (Rs.) Amount (Rs.)
1	Clearing and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removal of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or anchored upto a lead of 1000 m excluding removal and disposal of top organic soil not exceeding 150mm in thickness as per Technical Specification clause 201.1 and direction of E.	Hs	0.12	75360.38 9043.25
2	Construction of Subgrade And Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all pits and leads, conforming to the spreading grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1	Cum	571.76	244.73 139926.09
3	Granular Sub-base with Well Graded Material(Grade II) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with major grader on prepared surface, mixing by man in place method with roller at CMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.	Cum	74.26	2,966.01 220548.64
4	Water Bound Macadam Gr-III :- 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 spreading to fill up the voids of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.	Cum	25.82	5,086.63 131120.43
5	Prime Coat :- Providing and applying primer coat with Bitumen emulsion (BS-1) on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	344.25	56.67 19577.50
6	Track Coat :- Providing and applying track coat with Bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.35 kg per sqm on the prepared granular surface treated with Primer and covered with hyphic brown as per Technical Specification clause 503.	Sqm	2122.88	19.57 41544.66
7	Track Coat :- Providing and applying track coat with Bitumen emulsion (BS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface treated with Hydrate brown as per Technical Specification Clause 503.	Sqm	2122.88	16.34 34687.86
8	Send Dense Bituminous Concrete :- Providing and laying dense bituminous concrete with 100-120 TPH bitum type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, promoted with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 508 complete in all respects.	Cum	110.59	13,173.58 145628.82
9	Ratified cement concrete M15 grade kilometre local stone of standard design as per IRC-8 being in position including forming and putting, etc as per drawing and technical specification clause 1703.	No.	2	2,758.83 5517.66
10	200 mm stone	No.	2	764.87 1529.74
11	Reinforced concrete Traffic Signposting and erecting direction and place identification retro-reflectors sign as per IRC-67 made of encapsulated lens type reflective sheeting wide Clause 1701.2.3, fixed over aluminium sheeting, 2 mm thick, with area exceeding 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.	Sqm	0.96	13,537.00 12995.55
	600 mm equilateral & triangle	Nos	4	3,321.64 13296.56
	600 mm circular	Nos	10	4,720.59 47205.90
	600 mm x 450 mm rectangular	Nos	2	4,577.39 9154.78
	600 mm x 300 mm Hazard Marker	Nos	2	4,577.39 9154.77
	900 mm side octagon	Nos	2	9,005.56 18011.12

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
12	Reinforced cement concrete M15 grade boundary planalocal stone of standard design as per R.C. 25, fixed in position including finishing and leveling but excluding painting as per drawing and Technical Specification Clause 1704	Nos	8	671.73	5373.84
13	Planting of Trees and their Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mowing the soil with decaying farm yardwaste manure, planting the saplings, backfilling the trench, watering, filling the tree guard and maintaining the plants for one year	Each	5	1,247.52	6237.60
14	Tree Guard With MS Iron :- Providing and fixing MS Iron tree guard 60 cm dia and 2 metre high above ground level formed of 4 nos. (25 x 6 x 6 mm) and 8 nos. (25 x 2 mm) vertical MS inverted to 3 nos. (25 x 6 mm) iron ring in two halves bolted together with 6mm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect.	Each	5	2,311.45	11557.23
15	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reinforcing glass beads @ 250 gms per sqm area, thickness of 2.5 mm in thickness of surface applied glass beads as per R.C. 25. The finished surface to be level, uniform and free from streaks and holes.	Sqm	222.00	778.40	172804.80
16	At Edge for BT Portion	Sqm	3.5	778.40	2802.24
17	Reinforced Concrete in length and providing at 50 cm apart				
18	Providing and laying of typical MASONRY extensory sign board with Logo as per MCRD specifications and drawing. Three MS plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5mm size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enamelled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Appendix 1700.1	No.	3	10,193.16	30579.48
19	PARAPET REPAIR				
20	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications. Clauses 600, 900 and 1208.4	Cum	3.07	5,985.67	18376.01
21	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	21.44	191.98	4115.25
22	Plastering two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	21.44	128.70	2759.33
23	300MM Irrigation Pipe				
24	Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and lay of slope to be of slope in this construction head waste at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC: 60/1987 decided on a 0.2 m thick layer of granular material free of rock pieces, equal to outer diameter of pipe at least half dia of pipe subject to prevent entry of water and dirt, man in case of gully and pipe row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, as per IRC: 60 - 1987 and approved drawings	RM	20.00	1,016.14	20322.85
25	Total				2445768.55
26	1% LABOUR CESS				24457.68
27	Sewerage Fee				23802.33
28	18 % GST				448334.34
29	Total Construction Cost			A	2942357.81
30	6 YEAR MAINTENANCE COST	Quantity	24.00	18763.50	450324.00
31	Total				450324.00
32	1% LABOUR CESS				4503.24
33	Sewerage Fee				2042.59
34	18 % GST			B	82726.57
35	Total Maintenance Cost				537106.40
36	Grand Total Cost (A+B)				3481464.21
37	Grand Total Cost (A+B) (in Lacs)				34.815

12/12/20

18/12/20

BDA approved from sl. No. 01 to 23 for Rs 34,81,464=60 (Rupee
Thirty four lakh eighty one thousand four hundred sixty four only).
Certified copy


Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

— 5 of —
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra


18.2.25
T.A.

18.07.25
18.07.25
18.07.25

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

सुशासनी ग्रामीण सड़क उन्नयन योजना (MMGSUY)
BILL OF QUANTITIES (BOQ)

Name of Road	NH 85 Sambarha To Nawada Mathya Sita Ram Marjhi ke Char Tek			District	Saran	
Block	Jalalpur			Division	Chapter-2	
Length	0.375 km			Unit	Qty	Rate (Rs.) Amount (Rs.)
Sl. No.	Description of Items					
1	Clearing and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, jungle, saplings and trees of girth upto 500mm, removal of stumps of such trees cut earlier & disposal of unserviceable materials & spacing of serviceable materials to be used or anchored upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and deduction of ET.			Ha	0.08	73360.36 6028.83
2	Construction of Subgrade And Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 200.2 with lead upto 1000 m as per Technical Specification Clause 303.1			Cum	93.75	244.73 22943.44
3	Pavement Quality Concrete (PQC) :- 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 curing plant as per approved mix design, transported to site, laid with a steel 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, and technical specification clause 1703.			Cum	186.47	6,995.12 1304353.29
4	Reinforced concrete M15 grade concrete local stone of standard design super IRC-8 being in position including painting and printing, etc as per drawing and technical specification clause 1703.			No.	2	2,713.88 5427.76
5	2000 mm 800mm Retro-reflectors Traffic Sign: Providing and erecting direction and place identification retro-reflectors sign as per IRC-67 made of encapsulated lens type reflective sheeting with Clause 1701.2.3, laid over aluminum sheeting, 2 mm thick, with area exceeding 0.9 sqm supported on mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm below ground level as per drawings and Technical Specification Clause 801			Sqm	0.96	13,508.36 12968.62
6	600 mm equilateral & triangle 600 mm equilateral & triangle			No	2	3,321.64 6643.28
7	600 mm square 600 mm square			No	8	4,720.59 37764.72
8	600 mm rectangular 600 mm rectangular			No	1	4,577.39 4577.39
9	900 mm side design 900 mm side design			No	1	8,005.96 8005.96
10	Providing and laying of red applied thermoplastic compound 2.5 mm thick including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC-35. The finished surface to be level, uniform and free from streaks and holes.			Sqm	1.8	778.40 1401.12
11	Pedestrian Crossing 2 m in length and providing at 50 cm apart			Sqm	150.00	873.88 131083.20
12	At Edge for New & Old CC Pavement					

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
8	Providing and fixing of typical UMCSY information sign board with Logo as per MORD specifications and drawing. Three MS plates of 1.6 mm thick, top and middle plate duly welded with MS flat bar 25mm x 6mm size on back on edge. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 6mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet ribs duly embedded in cement concrete M-15 grade blocks of 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate rib. All M.S. will be stove enamelled on both sides. Lettering and printing, arrows, border etc. will be carried with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Change 1701 and Amendment 1700.1.	No.	3	10,151.00	30453.27
	Total				1573407.46
	1% LABOUR CESS				15734.08
	Safeguarding Fee				20050.23
	18 % GST				28364.55
	Total Construction Cost			A	1858446.52
	6 YEAR MAINTENANCE COST	Quantity	24.00	4737.50	113702.00
	Total				113702.00
	1% LABOUR CESS				1137.02
	18 % GST				20671.02
	Total Maintenance Cost			B	135510.04
	Grand Total Cost (A+B)				2034356.57
	Grand Total Cost (In Lacs)				20.344

BOD approved from Sl.no. 01 to 09 for Rs 20,34,357=00 (Rupees Twenty Lacs
Twenty four thousand three hundred fifty seven only)

BB

18/11/24

18.11.24

18.11.24

Superintending Engineer
Rural Works Deptt.
Muzaffarpur

Executive Engineer
Rural Works Department
Ward 1 Union, Chhapra-2

गुजराती ग्रामीण सड़क उपग्रह योजना (MMSUV)

BILL OF QUANTITIES (BOQ)

Name of Road	Polhva PMGSY To Tarna Kumbhains Tola via Sada Niman	Chiefd	Saran	Chapter-2	Amount (Rs.)
Block	Jalapur	Division	Chapter-2		
Length	0.850 km	Unit	Qty	Rate (Rs.)	Amount (Rs.)
Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Cheering and Grubbing :- Cheering and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and disposal of E.I.	M	0.19	75380.38	14318.47
2	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pit with all this and back, transposing to site, spreading, grading to required slope and compacted to meet requirement of Table 200.2 with lead upto 1000 m as per Technical Specification Clause 202.1	Cum	403.75	244.73	98808.74
3	Granular Sub-base with Well Graded Material (Graded 1) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OM, and compacting with smooth wheel roller to achieve the desired density, conforming to Technical Specification Clause 401	Cum	18.49	2,433.79	40123.40
4	Water Bound Macadam Gr II :- 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 15-40 the thickness of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.	Cum	28.12	4,965.99	129432.37
5	Prime Coat :- Providing and applying prime coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	Sqm	344.22	56.70	19474.16
6	Track Coat :- Providing and applying track coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Prime and sealed with hot bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface treated with Hydraulic broom as per Technical Specification Clause 503	Sqm	1721.25	19.52	33596.80
7	Best Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPHI batch type HMP producing an average output of 75 tonnes per hour using emulsion aggregate of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compactness as per Table 200.2, conforming to all sections.	Cum	87.02	13,023.50	1133505.82
8	Pavement Quality Concrete (PQC) :- Construction of un-reinforced, closed 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 construction, expansion, contraction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, slabs, base, sub-base, shoulders, etc. as per approved standard, standards, specifications, drawings, etc. as per drawing.	Cum	208.55	6,995.12	1444841.87
10	Reinforced cement concrete M15 grade concrete local stone of standard design as per IRC 8 using in position including painting and printing, etc as per drawing and technical specification clause 1703.	No.	2	2,713.88	5427.76
11	220 m 300cc Retro-reflective Traffic Signposting and existing direction and place identification retro-reflective sign as per IRC 87 made of encapsulated lens type reflective sheeting with Glass 1751 2.3, fixed over aluminum framing, 2 mm thick with area exceeding 0.8 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved standard and Technical Specification Clause 1701.	Sqm	0.98	13,504.88	12968.52

(Signature)

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
12	Providing and fixing of retro-reflective cautionary, mandatory and informative sign as per IRC:87 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminum sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 8 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801	Nos	5	3,321.64	16608.20
	600 mm circular	Nos	10	4,720.59	47205.90
	600 mm x 450 mm rectangular	Nos	2	4,577.39	9154.78
	900 mm x 300 mm Hazard Marker	Nos	2	4,577.39	9154.77
	800 mm square & triangle	Nos	2	9,005.56	18011.12
13	Reinforced cement concrete M15 grade boundary pillars/local stone of standard design as per IRC:26, fixed in position including finishing and lettering but excluding painting as per drawing and Technical Specification Clause 1704	Nos	8	668.07	5344.56
14	Planting of Trees and their Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard waste measure, planting the saplings, decussing the trench, watering, fixing the tree guard and maintaining the plants for one year	Each	23	1,247.52	28692.96
15	Tree Guard With MS Iron :- Providing and fixing MS iron tree guard 60 cm dia and 2 metre high above ground level formed of 4 nos. (25 x 6 x 6 mm) and 8 nos. (25 x 3 mm) vertical MS welded to 3 nos. (25 x 6 mm) iron ring in two halves bolted together with 8mm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect.	Each	23	2,311.45	53163.26
16	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	180.00	778.40	140112.00
17	AI Edge for BT Portion	Sqm	3.6	778.40	2802.24
18	Precast Concrete 12 m in length and providing at 50 cm apart	Sqm	180.00	873.89	157302.40
19	AI Edge for New & Old CC Portion	Sqm	180.00	778.40	140112.00
20	Providing and fixing of typical MARSY information sign board with Logo as per MORD specifications and drawing. Three MS plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5m size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG steel tubes posts duly embedded in cement concrete M15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be store enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Appendix 1700.1	Nos	3	10,151.09	30453.27
21	PARAPET REPAIR				
22	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 900 and 1208.4	Cum	3.07	5,935.87	18223.12
23	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	21.44	187.00	4009.28
24	Painting two coats excluding primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	21.44	128.70	2759.33

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

S. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
21	200MM Irrigation Pipe Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in side and toe of slope to toe of slope in 1% construction head water at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC 981967 bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1967 and approved drawings.	RM	20.00	997.66	19953.18
	Total				3509107.56
	1% LABOUR CESS				35091.08
	Salvage Fee				34402.58
	18 % GST				644858.34
	Total Construction Cost			A	4277469.56
22	5 YEAR MAINTENANCE COST	Quarterly	24.00	21551.92	517246.00
	Total				517246.00
	1% LABOUR CESS				5172.46
	Salvage Fee				5136.16
	18 % GST				94033.43
	Total Maintenance Cost			B	618408.05
	Grand Total Cost (A+B)				4845877.61
	Grand Total Cost (A+B) (in Lacs)				48.459

2262

DoB approved from S/no. 01 to 22 for Rs 48,45,878 = 00 (Rupees forty eight Lacs forty five thousand eight hundred seventy eight) only

2/11/18

2/11/18

48,45,878 = 00

2/12

18.07.18

18.07.18

Superintending Engineer
Rural Works Division,
Works Circle, Chhapra

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

मुल्तानी गाँव सड़क उन्नयन योजना (MMASUV)
BILL OF QUANTITIES (BOQ)

Name of Road	Block	Length	Sl. No.	Description of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
Kopa Kurma Road To Turan patta piny Road	Jalapur	0.800 km						
			1	Clearing and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 200mm, removal of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or sold upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and construction of 1:1	Ha	0.18	75360.28	13564.87
			2	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all pits and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 100.2 with lead upto 1000 m as per Technical Specification Clause 301.1	Cum	412.50	244.73	100951.13
			3	Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Prime and sealed with hot bitum at per technical specification clause 503	Sqm	1912.50	19.52	37332.00
			4	Tack Coat :- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared granular surface treated with Prime and sealed with hot bitum at per Technical Specification Clause 503	Sqm	1912.50	16.29	31154.63
			5	Semi Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver spreader with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the required compaction as per M&CDD specification clause No. 504 concrete is all sections	Cum	180.41	13.023.50	1307574.66
			6	Paravert Quality Concrete (PQC) :- Construction of un-reinforced, cover finished, plain concrete 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 cementing 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, and technical specification clause 1703	Cum	154.92	6.995.12	1080067.08
			7	Reinforced concrete concrete (RCC) grade bituminous local stone of standard design as per IRC:8 being in position including putting and printing, etc as per drawing and technical specification clause 1703	No.	2	2713.88	5427.76
			8	200 mm stone	No.	4	756.88	3027.52
			9	Reinforced concrete Traffic Signposting and erecting erection and place identification retro-reflective sign as per IRC:67 made of encapsulated lens type reflective sheeting size Clause 1701.2.3, fixed over aluminium sheeting, 2 mm thick, with area exceeding 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm below concrete level as per approved design as per Technical Specification Clause 1701	Sqm	0.96	13,508.98	12968.62
			10	Providing and laying of retro-reflective cautionary, mandatory and information sign as per IRC:67 made of encapsulated lens type reflective sheeting with Clause 1701.2.3 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 M-15 grade cement concrete 450 mm x 450 mm x 600 mm below ground level as per drawings and technical specification clause 601	Nos	7	3,321.64	23251.48
			11	600 mm equivalent & triangle	Nos	10	4,720.09	47205.90
			12	600 mm circular	Nos	2	4,577.39	9154.78
			13	600 mm x 450 mm rectangular	Nos	8	4,577.39	36619.10
			14	600 mm x 300 mm triangular	Nos	2	9,005.09	18011.12
			15	900 mm side octagon	Nos	32	668.07	21378.24
			16	Reinforced concrete concrete M-15 grade boundary rectangular stone of standard design as per IRC:25, fixed in position including finishing and labeling but excluding labor as per drawing and technical specification clause 1704	Each	25	1,247.52	31188.00
			17	Planting of Trees and other Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, planting the soil with decayed farm yard waste material, putting one sapling, bundling the trench, watering, fixing the tree guard and maintaining the plants for one year	Each	25	2,311.45	57786.15
			18	Tree Guard With MS Iron :- Providing and laying MS Iron tree guard 60 cm dia and 2 meters high above ground level (formed of 4 nos. (25 x 6 x 6 mm) and 8 nos. (25 x 3 mm) vertical MS inverted to 3 nos. (25 x 6 mm) using in two halves locked together with arm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect	Each	25	2,311.45	57786.15
			19	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm in exclusive of surface applied glass beads as per IRC: 35. The finished surface to be level, uniform and free from streaks and holes				

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

मुळाशी गावील सडक ठरवण योजना (MMSBY)

BILL OF QUANTITIES (BOQ)

Name of Road		District		Survey	
Gram Basidia NHHS To Kail Mandir Basidia Tal		Chhapra-2			
Block	Length	Division	Chapter-2		
Basidia	0.550 km				
Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Cleaning and Grubbing :- Clearing and Grubbing Road Land (By manual means), including uprooting and vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removal of stumps of such trees out earlier & disposal of unworkable materials & stacking of serviceable materials to be used or auctioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and disposal of it.	Ha	0.21	75300.20	15825.68
2	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 203.1.	Cum	590.25	244.73	144451.88
3	Granular Sub-base with Well Graded Material (Grade II) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with roller at 100% and compacting with smooth wheel roller to achieve the desired density, compacted as per Technical Specification Clause 401.	Cum	15.01	2,433.79	36528.04
4	Water Bound Macadam Gr II :- 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 60-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fit up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.	Cum	25.46	4,955.99	126158.82
5	Prime Coat :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 to 1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	330.41	50.70	16754.60
6	Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Primer and covered with hot bitumen as per technical specification clause 503.	Sqm	3174.75	18.52	58771.12
7	Seal Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared granular surface treated with Primer and covered with hot bitumen as per technical specification clause 503.	Sqm	3174.75	18.29	58071.68
8	Seal Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HAP producing an average output of 75 tonnes per hour using standard aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per M&T's specification clause 604, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.	Cum	158.74	13,023.50	2067300.90
9	Pavement Quality Concrete (PQC) :- Construction of uniformity tested, dense packed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 450 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 materials, sealant primer, joint sealant, colorizing strip, and technical specification clause 1703.	Cum	61.97	6,995.12	433452.56
10	Reinforced Cement concrete M15 grade basement local stone of standard design as per IRC:81 lying in position including piling and grouting, etc as per drawing and technical specification clause 1703.				
11	Reinforced Cement concrete M15 grade basement local stone of standard design as per IRC:81 lying in position including piling and grouting, etc as per drawing and technical specification clause 1703.				
		No.	2	2,713.88	5427.76
		No.	4	756.88	3027.52
		Sqm	0.90	13,508.88	12158.82



Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
12	Providing and fixing of retro-reflectised cautionary, mandatory and informative sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 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 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801				
	600 mm equilateral & triangle	Mos	5	3,321.64	16608.20
	700 mm circular	Mos	10	4,720.59	47205.90
	600 mm x 450 mm rectangular	Mos	2	4,577.39	9154.78
	900 mm x 300 mm, Hazard Marker	Mos	4	4,577.39	18309.55
	800 mm side octagon	Mos	2	9,005.56	18011.12
13	Reinforced cement concrete M15 grade boundary pillars/local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding labour as per drawings and Technical Specification Clause 1704	Mos	16	666.07	10658.12
14	Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, making the soil with decayed farm yard/silage manure, planting the saplings, backfilling the trench, watering, tying the tree guard and maintaining the plants for one year	Each	42	1,247.52	52395.84
15	Tree Guard With MS Iron > Providing and fixing MS iron tree guard 60 cm dia and 2 metre high above ground level formed of 4 nos. (25 x 5 x mm) and 8 nos. (25 x 3 mm) vertical MS welded to 3 nos. (25 x 6 mm) iron ring in two halves bolted together with 8mm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect.	Each	42	2,311.45	97080.73
16	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	332.00	778.40	258428.80
17	At Edge for RT Portion	Sqm	3.6	778.40	2802.24
18	At Edge for New & Old CC Portion	Sqm	48.00	873.89	41946.72
19	Providing and laying of typical M&CAST aluminium sign board with Logo as per MOIPD specifications and drawing. Three MS plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5m size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be above enamelled on both sides. Lettering and printing arrow, border etc. will be painted with heavy matt synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Appendix 1700.1	No.	3	10,151.00	30453.27
20	PAVEMENT REPAIR				
21	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 900 and 1208.4	Cum	6.14	5,303.87	32486.24
22	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	42.88	187.00	8018.56
23	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	42.88	128.70	5518.66

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
21	300MM Irrigation Pipe Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and 50e of slope to toe of slope in fills, constructing head works at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:38(1987) bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, as per IRC: 38 - 1987 and approved drawings.	RM	30.00	987.60	29628.77
22	Total				3681073.88
	1% LABOUR CESS				36810.74
	Salvage Fee				32279.49
	18 % GST				67141.50
	Total Construction Cost			A	4401475.42
	5 YEAR MAINTENANCE COST	Quarry	24.00	22173.00	77215.20
	Total				77215.20
	1% LABOUR CESS				7721.52
	Salvage Fee				3054.89
	18 % GST				140911.26
	Total Maintenance Cost			B	52382.70
	Grand Total Cost (A+B)				5326358.11
	Grand Total Cost (in Lacs)				53.264

BoD approved from SI no. 01 to 22 for Rs 53,25,358 = 00 (Rupees fifty three thousand five hundred thirty eight paise only)

18/11/22

18/11/22

R.R.

5325358 = 00

18.01.25

18.3.25

Superintending Engineer
Rural Works Deptt.
Vidhan Sabha, Chhapra

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

सुखमती ग्रामीण सड़क उपग्रन योजना (MAMOSUY)

BILL OF QUANTITIES (BOQ)

Name of Road	Chennai To Dewashtia Juk	Division	Saran	Chapter-2	Amount (Rs.)
Block	Jalapur	Division	Chapter-2		
Length	0.510 km	Unit	Qty	Rate (Rs.)	Amount (Rs.)
Sr. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Clearing and grubbing > Clearing and grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 30cm, removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a head of 1000 in including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and sub-clause 201.1.1	Ha	0.14	75390.28	10550.45
2	Construction of Subgrade and earthen shoulders with approved material obtained from borrow pits with all materials and methods, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1	Cum	322.50	244.73	78925.43
3	Granular Sub-base with Well Graded Material (Grade II) > Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with roller at CMC, and compacting with smooth wheel roller to achieve the desired density, standard as per Technical Specification Clause 401	Cum	17.17	2,433.79	41798.40
4	Water Bound Macadam (WBM) > 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 covering to fill up the voids of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405	Cum	30.10	4,955.99	149178.16
5	Prime Coat > Providing and applying prime coat with Bitumen emulsion (SS-1) on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	Sqm	491.34	56.70	27766.04
6	Track Coat > Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared subgrade surface treated with primer and covered with nodular broom as per technical specification clause 503	Sqm	1530.00	19.52	29865.60
7	Tack Coat > Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface treated with hydraulic broom as per Technical Specification Clause 503	Sqm	1530.00	16.29	24923.70
8	Semi Dense Bituminous Concrete > Providing and laying semi dense bituminous concrete with 100-150 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compactness as per M&P 713 specification clause 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	Cum	78.50	13,023.50	996297.75
9	Permanent Quality Concrete (PQC) > Construction of un-reinforced, down jointed, plain concrete 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 construction, expansion, contraction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, bleed water, joint reinforcement, etc. as per approved design and Technical Specification Clause 504	Cum	108.45	8,995.12	759595.49
10	Reinforced concrete concrete (RCC) > Construction of reinforced concrete 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 construction, expansion, contraction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, bleed water, joint reinforcement, etc. as per approved design and Technical Specification Clause 504	Cum	108.45	8,995.12	759595.49
11	200 mm stone	No	2	2,713.84	5427.68
	200 mm stone	No	3	736.88	2210.64
	200 mm stone	Sqm	0.96	13,508.98	12968.62

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	UNIT	Qty.	Rate (Rs.)	Amount (Rs.)
12	Providing and laying of reinforced concrete, mandatory sign as per IRC 67 made of encapsulated lens type reflective sheeting with Clause 1701.2.3 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post, 75 mm x 75 mm x 8 mm firmly fixed to the ground by means of properly designed foundation with M15 grade concrete (concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801)				
	600 mm equivalent & bangle	No/8	5	3,321.64	16608.20
	600 mm circular	No/8	10	4,720.59	47205.90
	600 mm x 450 mm rectangular	No/8	2	4,577.39	9154.78
	800 mm x 300 mm Hazard Marker	No/8	4	4,577.39	18309.56
	800 mm wide octagon	No/8	2	9,005.56	18011.12
13	Reinforced concrete M15 grade boundary pillars, local scope of standard design as per IRC 25, fixed in position including shipping and returning but excluding labour as per drawings and Technical Specification Clause 1704	No/8	10	668.07	6680.70
14	Planting of Trees and their Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, making the soil with decayed farm yard waste material, planting the saplings, basking the trees, watering, tying the tree guard and maintaining the plants for one year	Each	20	1,247.52	24950.40
15	Tree Guard With M.S. Iron :- Providing and laying M.S. iron tree guard 60 cm dia and 2 metre high above ground level formed of 4 nos. (25 x 8 x 6 mm) and 8 nos. (25 x 3 mm) vertical M.S. twisted to 2 nos. (25 x 6 mm) iron ring in two halves bolted together with 8mm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, concrete in all respect.	Each	20	2,311.45	46228.92
16	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 25. The finished surface to be level, uniform and free from streaks and holes.	Sqm	160.00	778.40	124544.00
17	As Edge for BT Paving	Sqm	3.6	778.40	2802.24
18	As Edge for New & Old CC Paving	Sqm	84.00	873.89	73428.76
19	Providing and laying of typical S.A.A.C.S.T. preliminary sign board with Logo as per MOIPD specifications and drawing. Three M.S. plates of 1.8 mm thick, top and middle plate only welded with M.S. flat iron 25mm x 5mm size on back on edges. The lower plate will be welded with M.S. angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet steel posts duly embedded in cement concrete M15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enamelled on both sides. Lettering and printing stencil, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	No.	3	10,151.09	30453.27
20	PARAPET REPAIR				
21	Brick masonry work in cement mortar 1:3 in parapet including pointing and plastering as per drawing and technical specifications Clause 600, 960 and 1200.4	Cum	8.14	5,005.87	40746.24
22	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	42.88	187.00	8018.56
23	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	42.88	128.79	5518.06

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Work	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
21	300MM Irrigation Pipe Providing and laying of a reinforced cement concrete pipe duct 300 mm dia. across the road (new construction), extending from drain to drain in culs and 50e of slope to toe of slope in this, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC, 1987 decided on a 0.3 m thick layer of granular material free of rock pieces, under to outer distance of pipe at least half dia of pipe subject to minimum 400 mm in case of double and type now duct, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, as per IRC, 1987 and approved drawings.	RM	20.00	997.66	19953.18
	Total				262344.93
	1% LABOUR CESS				2623.47
	Seigniorage Fee				27544.35
	18 % GST				48257.41
	Total Construction Cost			A	316439.86
22	6 YEAR MAINTENANCE COST	Quantity	24.00	17943.79	430651.00
	Total				430651.00
	1% LABOUR CESS				4306.51
	Seigniorage Fee				5472.14
	18 % GST				7857.34
	Total Maintenance Cost			B	51438.99
	Grand Total Cost (A+B)				367938.65
	Grand Total Cost (A+B) (in Lacs)				36.793

BOB approved from sl.No. 01 to 22 for Rs 3679337=60 (Rupees thirty six lakh seventy nine thousand three hundred thirty seven only).

Certified for

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chhapra

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chhapra

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

18-07-25
18-07-25
18-07-25

18/07/25
18/07/25
18/07/25
= 3679337=60

- 54 -

BILL OF QUANTITIES (BOQ)

Name of Road	SQMT To Laid Material m/m/t				
Block	Jalajour				
Length	0.706 km				
Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Cleaning and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removal of stumps of such trees cut earlier & disposal of unserviceable materials & hauling of serviceable materials to be used or auctioned upto a level of 100m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and direction of E.I.	Hr	0.16	75390.38	12067.96
2	Construction of Subgrade And Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and tests, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with load upto 10000 m as per Technical Specification Clause 303.1	Cum	366.25	244.73	89632.36
3	Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Prime and sealed with hotbitum. known as per technical specification above 303.	Sqm	1721.25	18.52	31598.80
4	Tack Coat :- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface cleaned with hydraulic broom as per Technical Specification Clause 303.	Sqm	1721.25	16.29	28039.16
5	Semi Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per M&BTR specifications clause 40.502 concrete in all respects.	Cum	90.37	13,023.50	1176893.65
6	Pavement Quality Concrete (PQC) :- Construction of un-aerated, down packed, 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, release bar, etc. level, approximate 4% downward camber, finished to final level and crossfall as per drawings.	Cum	128.10	6,865.12	880079.68
7	Reinforced cement concrete Art's grade bituminous local stone of standard design taper R/C 8 lying in position including painting and priming . etc as per drawing and technical specification clause 1702				
8	Non stop				
9	200 m slope	No.	2	2,713.88	5427.76
10	Retro-reflection Traffic Sign-posting and erecting direction and place identification retro-reflective sign as per IRC 67 made of encapsulated lens type reflective sheeting size Cause 1701/2.3, fixed over aluminium sheeting, 2 mm thick with area enclosing 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos. being fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm. Add non-friction around level as per attached drawing and Technical Specification Clause 1701.	No.	3	756.88	2270.64
		Sqm	0.96	13,508.98	12968.62

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
9	Providing and fixing of retro-reflective cautionary, mandatory and informative sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminium sheathing, 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 450 mm x 450 mm x 800 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801				
	600 mm equilateral & triangle	Nos	5	3,321.04	16608.20
	600 mm circular	Nos	10	4,720.59	47205.90
	600 mm x 450 mm rectangular	Nos	2	4,577.39	9154.78
	900 mm x 300 mm Hazard Marker	Nos	2	4,577.39	9154.77
10	600 mm side octagon	Nos	2	9,005.56	18011.12
	Reinforced cement concrete M15 grade boundary plan/local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per drawing and Technical Specification Clause 1704	Nos	8	668.07	5344.56
11	Planting of trees and tree maintenance for one year :- Planting of trees by the road side (avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/silage manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year	Each	23	1,247.52	28692.96
12	Tree Guard With MS bar :- Providing and fixing MS bar tree guard 60 cm dia and 2 metre high above ground level formed of 4 nos. (25 x 6 x mm) and 8 nos. (25 x 3 mm) vertical MS riveted to 3 nos. (25 x 6 mm) iron ring in two halves bolted together with 6mm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect	Each	23	2,311.45	53163.28
13	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface accepted glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes				
1	At Edge for BT Paving				
1	At Edge for New & Old C/C Paving	Sqm	100.00	778.40	140112.00
1	At Edge for New & Old C/C Paving	Sqm	3.6	778.40	2802.24
1	At Edge for New & Old C/C Paving	Sqm	100.00	873.89	87389.00
14	Providing and laying of typical MASONRY masonry sign board with Logo as per MOHD specifications and drawing. Three MS pillars of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5mm on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower middle plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG steel tubes posts duly embedded in concrete concrete M15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be above enamel on both sides. Lettering and printing arrows, border etc. will be carried with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Appendix 1700.1	No.	3	10,151.09	30453.27

[Signature]

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	UNIT	Qty	Rate (Rs.)	Amount (Rs.)
PARAPET REPAIR					
15	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 601 and 1208.4	Cum	3.07	5,925.87	18223.12
16	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	21.44	187.00	4009.28
17	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	21.44	128.70	2769.33
	Total				2737052.12
	1% LABOUR CESS				27370.52
	Salvage Fee				25404.34
	18 % GST				502168.97
	Total Construction Cost			A	3291996.55
18	6 YEAR MAINTENANCE COST	Quarterly	24.00	19747.42	473938.00
	Total				473938.00
	1% LABOUR CESS				4739.38
	Salvage Fee				1658.16
	18 % GST				86460.04
	Total Maintenance Cost			B	56793.57
	Grand Total Cost (A+B)				3858790.12
	Grand Total Cost (A+B) (In Lacs)				38.588

BOB approved from S.No. 01 to 18 for Rs 38,58,790=00 (Rupees Thirty eight lacs fifty eight thousand seven hundred ninety/00 only)

Superintending Engineer
Rural (Works) Dept.
Works Circle, Chapra

38/18.07.25
18.07.25
EEO

Executive Engineer
Rural Works Department
Works Division, Chapra-2

38/18.07.25
18.07.25
EEO

मुहानगी प्रमोशन सड़क उपग्रह योजना (NIMGSUY)

BILL OF QUANTITIES (BOQ)

Name of Road		District		Saran	
Bardila Kumna Pakhi Sadak Shalipura To Bardila Jalpaur Sadak (Nahar) Tek		Chhapra-2			
Block		Division			
Jalpur					
Length					
0.450 km					
SL. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Clearing and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting and vegetation, grass, bushes, scrub, saplings and trees of girth upto 300mm, removals of stumps of such trees cut earlier & disposal of unserviceable materials & staking of serviceable materials to be used or auctioned upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and clause 401.	M ²	0.10	75360.28	7536.04
2	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all pits and leach, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1.	Cum	303.75	244.73	74336.74
3	Granular Sub-base with Well Graded Material (Grade II) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with roller at CMC, and compacting with smooth wheel roller to achieve the desired density, compacted as per Technical Specification Clause 401.	Cum	19.55	2433.79	47582.59
4	Water Bound Macadam (or III) :- 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 increasing to fill up the interstices of coarse aggregate, wetting and compacting to the required density Grading 3 as per Technical Specification Clause 404.	Cum	32.17	4,905.59	159413.28
5	Prime Coat :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.75-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	428.88	56.70	24317.33
6	Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with primer and sealed with hydraulic broom as per Technical Specification clause 503.	Sqm	1721.25	19.52	33598.80
7	Tack Coat :- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface coated with hydraulic broom as per Technical Specification Clause 503.	Sqm	1721.25	16.29	28028.16
8	Smart Dense Bituminous Concrete :- Providing and laying smart dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers as per the approved construction as per M&EHT specification clause No. 508, acceptable to all concerned.	Cum	86.06	13,022.50	1120851.90
9	Reinforced concrete concrete M15 grade concrete local stone of standard design as per IRC 8 using in position including painting and preting , etc as per drawing and technical specification clause 1703				
10	200 m 30cm Retro-reflectored Traffic Signposting and existing direction and place identification retro-reflectored sign as per IRC-67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminium sheeting, 2 mm thick, with area exceeding 0.8 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 500 mm below ground level as per approved drawing and Technical Specification Clause 1701.	Sqm	0.96	13,508.98	12968.62

Executive Engineer
Rural Works Department
Works Division, Chhapra-2

Sl. No.	Description of Items	UNIT	Qty.	Rate (Rs.)	Amount (Rs.)
11	Providing and fixing of retro-reflective cautionary, mandatory and informative sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 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 concrete 450 mm x 450 mm x 600 mm, 500 mm below ground level as per drawings and Technical Specification Clause 801	Nos	6	3,321.64	19929.84
	600 mm circular	Nos	10	4,720.59	47205.90
	600 mm x 450 mm rectangular	Nos	1	4,577.39	4577.39
	900 mm x 300 mm Hazard Marker	Nos	2	4,577.39	9154.77
	900 mm side octagon	Nos	2	9,005.56	18011.12
12	Reinforced concrete M15 grade boundary pillar/scale stone of standard design as per IRC:25, fixed in position including finishing and lettering but including labour as per drawing and Technical Specification Clause 1704	Nos	8	668.07	5344.56
13	Planting of Trees and their Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/silage manure, planting the saplings, backfilling the trench, watering, staking the tree guard and maintaining the plants for one year	Each	23	1,247.52	28692.96
14	Tree Guard With MS Iron :- Providing and fixing MS Iron tree guard 60 cm dia and 2 metre high above ground level formed of 4 nos. (25 x 6 x mm) and 8 nos. (25 x 3 mm) vertical MS riveted to 3 nos. (25 x 6 mm) iron ring in two halves bolted together with 8mm dia and 30 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect.	Each	23	2,311.45	53163.25
15	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflecting glass beads @ 200 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from cracks and holes.				
1	At Edge for BT Pavement	Sqm	180.00	778.40	140112.00
4	Precast concrete 27 m in length and providing at 50 cm apart	Sqm	3.6	778.40	2802.24
16	Providing and laying of typical MASONRY automatic sign board with Logo as per MCRD specifications and drawing. Three MS plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5m size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in concrete concrete 45-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	No.	3	10,151.09	30453.27
17	BRICK MASONRY WORK in cement mortar 1:2 in parapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 900 and 1208.4	Cum	3.07	5,925.87	18273.12
18	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	21.44	187.00	4009.28
19	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	21.44	128.70	2759.33

AS BE

Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
20	300MM Irrigation Pipe Providing and laying of a reinforced cement concrete pipe duct 300 mm dia. across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in Mts. constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe at per IRC: 581987 bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double end type new ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, as per IRC: 58 - 1987 and approved drawings.	RM	20.00	987.66	19953.18
	Total				1919978.17
	1% LABOUR CESS				19199.78
	Salvage Fee				17202.82
	18 % GST				352148.54
	Total Construction Cost			A	2008529.31
	6 YEAR MAINTENANCE COST	Quarterly	24.00	16739.92	401758.08
	Total				401758.08
	1% LABOUR CESS				4017.58
	Salvage Fee				1654.16
	18 % GST				73337.71
	Total Maintenance Cost			B	480719.45
	Grand Total Cost (A+B)				2789298.76
	Grand Total Cost (A+B) (in Lacs)				27.893

BBB approved from sl.no. 01 to 21 for Rs 27,89,299=00 (Rupees Twenty Seven Lakh Eighty Nine thousand two hundred Ninety Nine.

certified copy

[Signature]
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chandra

SA
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chandra

[Signature]
18.01.25
E.O

[Signature]
18.01.25
4.4

[Signature]
18/01/25

[Signature]
18/01/25

BB

27,89,299=00

पुस्तकी प्रतीक संकेत उपकरण योजना (M&B&V)

BILL OF QUANTITIES (BOQ)

Name of Road	Devinjya Bazar To Swarnya Balanath Paswan ka Char swam Dholi Tola hole hse Jalapur Basella Tak	District	Swan	
Block	Jalapur	Division	Chapter-2	
Length	0.750 km	Unit	Qty	Rate (Rs.) Amount (Rs.)
Sl. No.	Description of Items			
1	Clearing and Grubbing :- Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a limit of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and 201.2.	Ha	0.17	75900.38 12811.26
2	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all materials and tests, conforming to the required specification and compacted to meet requirement of Table 200.2 with lead upto 1000 m as per technical specification clause 300.1.	Cum	357.50	244.73 87490.98
3	Granular Sub-base with Well Graded Material(Grade II) :- Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with roller at OMC, and compacting with smooth wheel roller to achieve the desired density, conforming to the technical specification clause 401.	Cum	0.51	2433.79 1244.88
4	Water Bound Macadam (WBM) :- 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 3 as per Technical Specification Clause 405.	Cum	0.87	4,955.99 4303.47
5	Prime Coat :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and applying primer at the rate of 0.70 to 1.0 l/sq.m using mechanical means as per Technical Specification Clause 502.	Sqm	11.58	56.79 656.46
6	Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared surface.	Sqm	1530.00	19.52 29865.60
7	Tack Coat :- Providing and applying tack coat with bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.25 kg per sqm on the prepared bituminous surface obtained with Hydraulic broom as per Technical Specification Clause 503.	Sqm	1530.00	16.28 24923.70
8	Semi Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HRP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydraulic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per technical specification clause 501.	Cum	79.85	13,023.30 1039805.78
9	Pavement Quality Concrete (PQC) :- Construction of un-reinforced, dense graded, 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 steel, separation membrane, sealed primer, joint sealant, debonding strip, etc. as per drawing.	Cum	190.73	6,995.12 1326425.47
10	Reinforced cement concrete M15 grade stormwater local stone of standard design as per IRC 8 lying in position including painting and priming, etc. as per drawing and technical specification clause 1703.	No.	2	2,713.88 5427.76
11	Reinforced cement concrete M15 grade stormwater local stone of standard design as per IRC 8 lying in position including painting and priming, etc. as per drawing and technical specification clause 1703.	No.	3	758.88 2270.64
12	Reinforced cement concrete M15 grade stormwater local stone of standard design as per IRC 8 lying in position including painting and priming, etc. as per drawing and technical specification clause 1703.	Sqm	0.96	13,508.88 12968.52
13	Reinforced cement concrete M15 grade stormwater local stone of standard design as per IRC 8 lying in position including painting and priming, etc. as per drawing and technical specification clause 1703.	No.	8	3,331.84 19829.84
	600 mm x 450 mm rectangular	No.	10	4,720.59 47205.90
	600 mm x 300 mm Hazard Marker	No.	2	4,577.36 9154.78
	600 mm side octagon	No.	4	4,577.36 18309.55
		No.	2	9,005.96 18011.12
		No.	18	668.07 10084.12

12

Sl. No.	Description of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
14	Planting of Trees and their Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/biodegradable manure, planting the saplings, backfilling the trench, watering, fencing the tree guard and maintaining the plants for one year	Each	20	1,247.52	24950.40
15	Tree Guard With MS Iron :- Providing and fixing MS Iron tree guard 60 cm dia and 2 metre high above ground level formed of 4 nos. (25 x 8 x 1mm) and 8 nos. (25 x 3 mm) vertical MS rivets to 2 nos. (25 x 8 mm) iron ring in two halves bolted together with 8mm dia and 20 mm long bolts including painting two coats with paint of approved brand over a coat of priming, complete in all respect.	Each	20	2,311.45	46228.92
16	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflecting glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per RCC-35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	160.00	778.40	124544.00
17	At Edge for RT Pavement	Sqm	3.6	778.40	2802.24
18	At Edge for New & Old CC Pavement	Sqm	140.00	873.89	122344.60
19	Providing and laying of typical MARSY information sign board with Logo as per MORD specifications and drawing. Three MS Plates of 1.8 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5mm size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 6mm. The angle iron frame of the lower middle plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet. Lubes posts duly embedded in cement concrete M15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All MS, will be stove enamelled on both sides. Lettering and painting arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed poles and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Appendix 1700.1	No.	3	10,151.09	30453.27
20	Earthwork in excavation for structures as per drawing and technical specifications Clause 205.1 including setting out, construction of shoring and bracing, removal of slumps 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.	Cum	107.70	387.78	41837.96
21	Saned Filling in Foundation Trenches as per drawing and technical specification Clause 1108.	Cum	7.34	535.40	3920.58
22	Providing PCC M20 (1:2:4) concrete for plain concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	Cum	14.29	7198.96	102806.00
23	Plain Reinforced cement concrete (M20) in Open Foundation complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204	Cum	68.77	7198.96	493112.77
24	Plain Reinforced cement concrete (M20) in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204	Cum	28.61	7198.96	206018.79
25	Plain Reinforced cement concrete (M20) in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204	Cum	8.16	7198.96	58722.06
26	RCC M25 in Deck Slab - Providing and laying reinforced cement concrete in superstructure (Deck slab M25) as per drawing and technical specifications Clauses 802, 1205 & 1205.5	Cum	6.37	7,778.79	49568.89
27	Supplying, storing and placing RTSD bar reinforcement in super-structure complete as per drawing and technical specifications	MT	0.81	66817.15	54037.21
28	Providing and laying joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight.	RM	16.60	54.62	906.69
29	Providing Whetstones in brick masonry, Plaster / Reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structure with slope of 1V: 20H towards drawing	Nos	14.00	258.42	3617.88
30	Damage spots complete as per drawing and technical specifications Clause 1209.	Nos	2.00	1,226.84	2453.68
31	Providing and laying filter media with granular crushed aggregates as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and technical specification Clause 1204.3.8	Cum	48.54	3830.06	185826.49
32	Painting on Parapet Wall Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	26.56	128.70	3418.27

2

82

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
PARAPET REPAIR					
31	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 600 and 1208.4	Cum	3.07	5,935.87	18223.12
32	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	21.44	187.00	4009.28
33	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	21.44	128.70	2759.23
	Total				41954.87
	1% LABOUR CESS				4195.48
	Salvage Fee				48840.10
	18 % GST				771520.83
	Total Construction Cost			A	5057813.87
	6 YEAR MAINTENANCE COST	Quarterly	24.00	19968.29	479259.00
	Total				479259.00
	1% LABOUR CESS				4792.59
	Salvage Fee				1472.14
	18 % GST				87521.53
	Total Maintenance Cost			B	873752.26
	Grand Total Cost (A+B)				5631566.13
	Grand Total Cost (A+B) (In Lacs)				56.316

BOD approved from SL No. 02 to 34 for Rs 56,31,566 = 56 (Rupees Fifty six
lacs thirty one thousand five hundred sixty six only).

EW

18/12/18

5631566 = 56

18/12/18
ED

18/12/18

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

18/12/18

Sl. No.	Block	Package No.	Name of Road	Length	As Per Approved BOQ			As Per Agreement		
					Construction Cost	Maintenance Cost	Grant Total	Construction Cost	Maintenance Cost	Grant Total
1	Ekma		L033 To Manikpura	0.700	6401428.56	249208.10	6650926.66	5318947	207200	5526247
2	Ekma		PMGSY Path T05 To Yogiya Harjan Tola Dom Tola Tak	2.220	10441260.57	2003156.35	12444417.12	8675643	1664400	10340043
3	Ekma		Benaut Madhya Vidyalay To Benaut Harjan Tola Tak	1.775	8316702.24	1562361.09	9879063.33	6910348	1288116	8208464
4	Ekma		PMGSY Road To Vishnupura Khaur Harjan Tola ewan Yadav Tola Tak	1.550	7699074.73	1262834.74	8961909.47	6397161	1049229	7446401
5	Ekma		Surf To Goe Tola	0.600	2616073.50	497743.30	3113816.80	2173695	413325	2587220
6	Ekma		Rasulpur Pender Tola To Prathmik Vidyalay Tak	0.500	2642132.26	178514.95	2820647.21	2195348	148318	2343666
7	Ekma		Rasulpur Deonadih To Dhanadih	0.555	2942357.81	539106.40	3481464.21	2444805	447894	2892699
8	Jalalpur	RRSM/2 S-26	NH 85 Sambhara To Nawada Mathiya Sila Ram Manjhi ke Ghar Tak	0.375	1898846.52	135510.04	2034356.56	1577752	112575	1690327
9	Jalalpur	Chapra-2/02	Pojhiya PMGSY To Tarwa Kushwaha Tola tak Sadak Niman	0.850	4227469.56	618408.05	4845877.61	3512604	513822	4026427
10	Jalalpur		Kopa Kumara Road To Tarwan patla pmgsy Road	0.800	3864186.62	661945.95	4526132.55	3210753	550011	3760764
11	Jalalpur		Gram Basadla NH85 To Kaili Mandir Basadla Tak	0.950	4401475.42	923882.70	5325358.12	3657186	767654	4424840
12	Jalalpur		Dhenki To Dewariya tak	0.610	3164349.66	514986.99	3679336.65	2629258	427903	3057161
13	Jalalpur		S047 To L040 Mansar maghi tola	0.700	3291996.55	566793.57	3858790.12	2735320	470949	3306269
14	Jalalpur		Basadla Kumma Pakki Sadak Shekhpura To Basadla Jalalpur Sadak (Nabar) Tak.	0.450	2308529.31	480769.45	2789298.76	1918157	399471	2317628
15	Jalalpur		Dewariya Bazar To Swargiya Balaknath Paswan ke Ghar ewan Doodi Tola huc huc Jalalpur Basadla Tak	0.750	5057813.87	573752.26	5631566.13	4202538	476731	4679268
Total				13.385	69273697.180	10769274.120	80042971.300	57559515	8947908	66507423