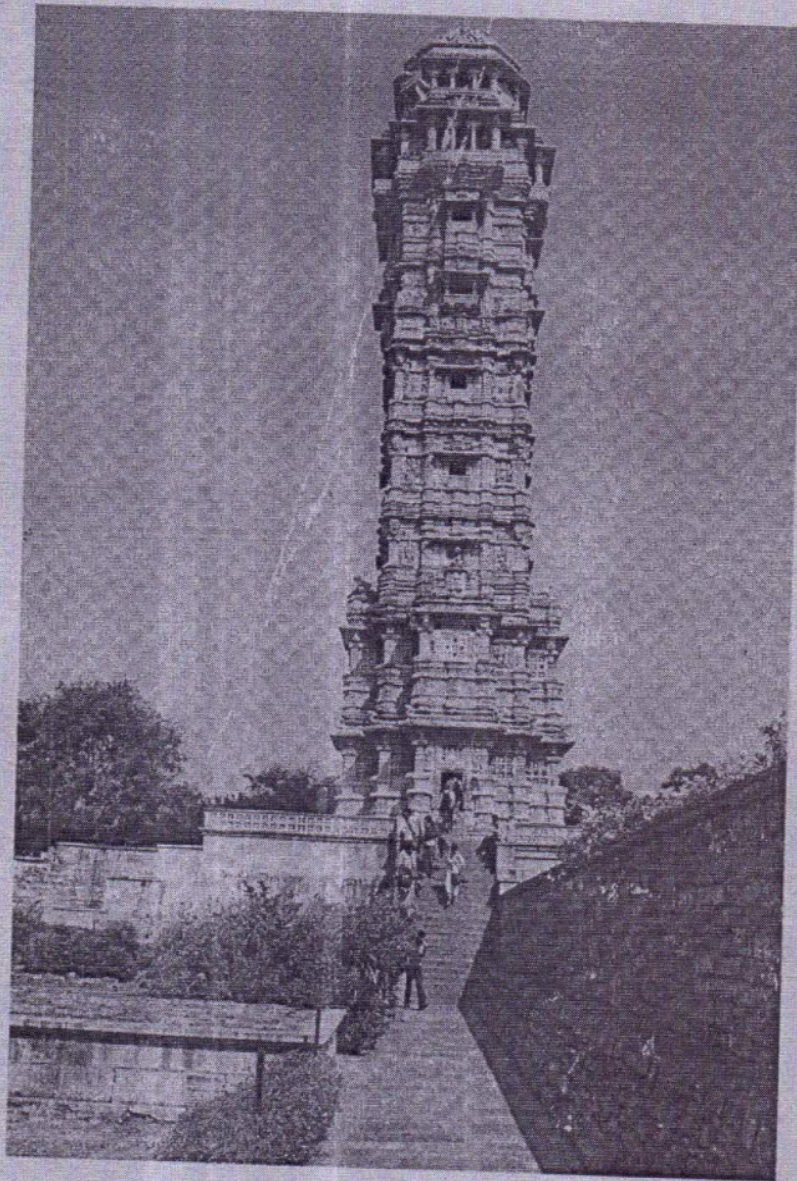


**PROJECT REPORT FOR WIDENING, STRENGTHEN AND RE-CARPETING
OF ROAD FROM DELHI GATE TO NH-79 VIA MANPURA / GOPALNAGAR
CHITTORGARH, RAJASTHAN.**





PROJECT PROPONENT :

URBAN IMPROVEMENT TRUST, CHITTORGARH

CONSULTANTS :

VISTAAR INFRATECH INDIA PRIVATE LIMITED
H. No 31, SHANKAR VATIKA, SECTOR : 18(H)
PRN (SOUTH), MANSAROVAR, JAIPUR - 302020
RAJASTHAN.PH. 0141-2785792


अभियन्ता
विकास न्यास
चित्तौड़गढ़ (राज.)


अभियन्ता
चित्तौड़गढ़ (राज.)

2.0 PREFACE

Urban Improvement Trust Chittorgarh have a proposal for Development of various Infrastructure in Chittorgarh City (Rajasthan). The proposed proposal included development of three roads and river front development. Therefore it is essential to prepare project report for above said projects.

Project report is a primary requirement for development works for smoothly execution as well as for proper financial planning / budgeting / tendering etc. Hence Urban Improvement Chittorgarh has appointed Vistaar Infratech India Private Limited as their consultant for preparation of project report for above mentioned projects.

The report presented herein deals with Technical Studies , Conducting Survey , Data Collection , Planning , Designing , Preparation of drawings , Preparation of Bill of Quantities , Preparation of Bidding Documents , Preparation of Project Report etc.

3.0 INTRODUCTION

The present Project Report is for Widening, Strengthen and Re-Carpeting of Road from Delhi Gate To NH-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.

4.0 LOCATION OF PROJECT

The Chittorgarh Town is very Famous , Historical and Archeological town of Rajasthan State. It is District Head Quarter of Rajasthan State. It is well connected by Road and Rail with other parts of Rajasthan State as well as with other parts of India. Chittorgarh is 567 Km from Delhi by Road and 549Km by Train. It is 306 Km from Jaipur by Road and 314 Km by Train. National Highway No. 79 and 76 passing through Chittorgarh.

The Proposed Road starts at Delhi gate (24°-53'-33.19" Northing & 74°-38'-20.5" Easting) and Join to NH-79 (24°-54'-22.82" Northing and 74°-41'-14.29"). The length of Proposed Road is 6.20Km. The location of Project shown herein figure No. 01 & 02.

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.



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Figure Showing location of Project

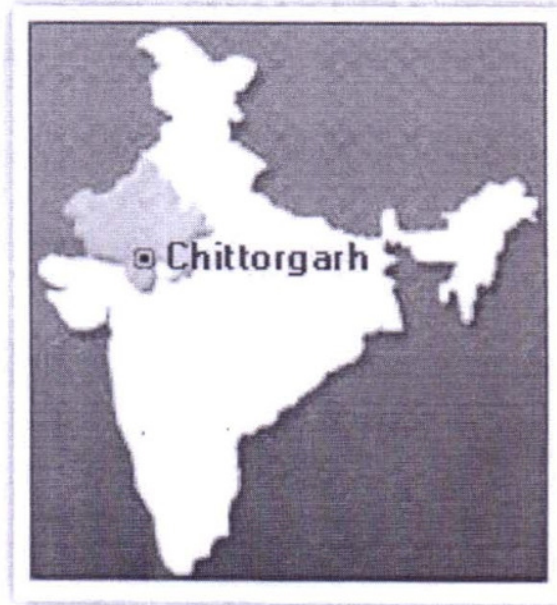


Figure : 01

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.

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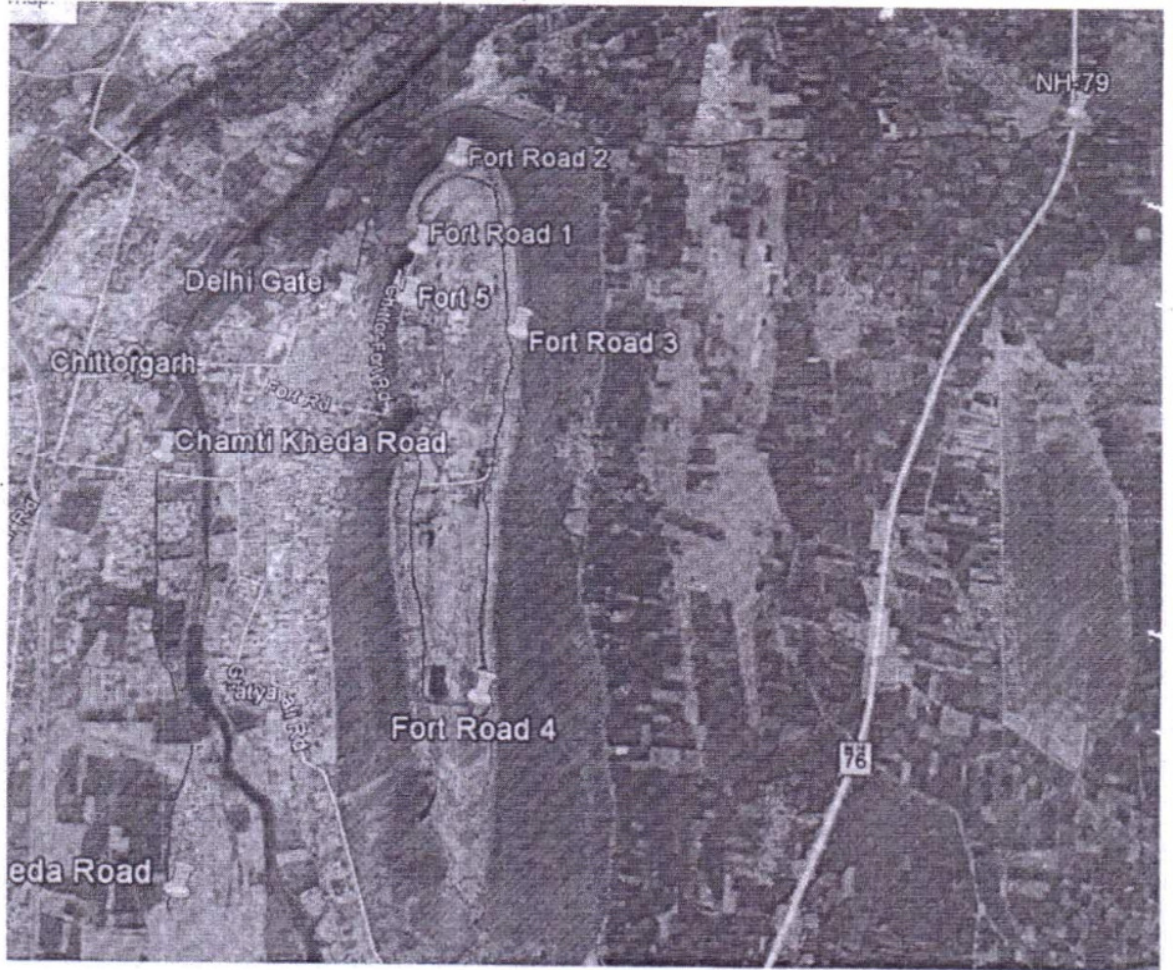
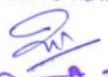


Figure : 02

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.



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5.0 Topography of Proposed Road

The Proposed starts at Delhi Gate (Km 0/0 at Delhi Gate). Geographic Coordinates of Delhi Gate is 24°-53'-33.19" Northing and 74°-38'-20.5" Easting. The Proposed Road ends at NH-79. Geographical Coordinates at junction of Proposed Road and NH-79 is 24°-54'-22.82" Northing and 74°-41'-14.29" Easting. Km 0 / 0 to Km 01 / 100 and Km 03 / 400 to Km 03 / 900 is urban portion (Habitation). Remaining length of proposed road is almost open.

Alignment of proposed road is almost along foothill of Chittorgarh Fort Hill. Longitudinal gradient in entire alignment of proposed road is smooth. The longitudinal gradient of proposed road is within limits of ruling gradient and minimum gradient (1in300 to 1in500).

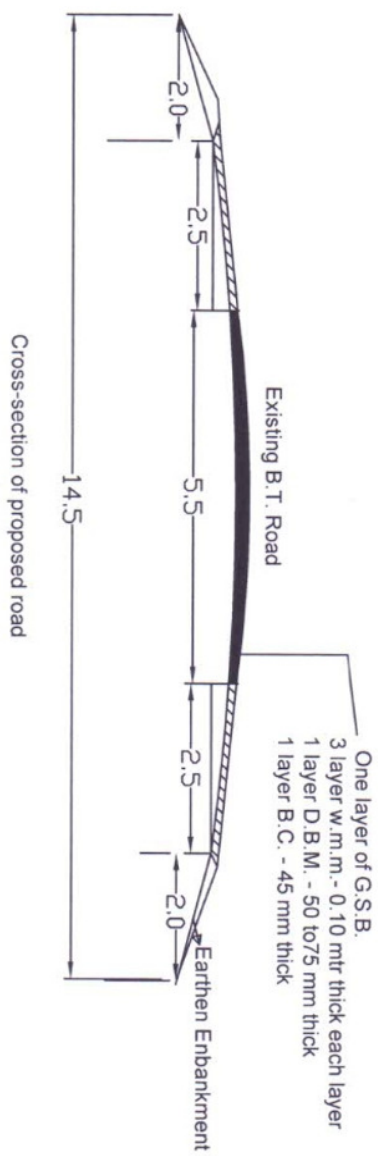
Existing carriageway of proposed road is 5.50m wide. and Total width of proposed road (Including Shoulders) is 14.50m. Typical X-Section of Proposed Road as under -


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URBAN IMPROVMENT TRUST, CHITTORGARH

Name of Work :- Cross Section of Road From Dehli Gate to N.H.79 Via Manpura Widening & Re-carpating Work

All dimensions are in mtr.



[Signature]
J.En.

अधिसूचना
Chittorgarh

नगर विकास न्यास
चित्तौड़गढ़

[Signature]
A.En.
UIT Chittorgarh

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अधिसूचना
Chittorgarh
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There are some structures and utilities falling within (Located within / Exists within) limits of carriageway (within 10.5m width) of proposed road, which are as under -

Electric Poles : 25 No.

Structures :

S. No.	Chainage		Left Side / Right Side	Structure / Compound wall / Boundary wall
	From	To		
1	Km 0/096m	Km 0/110m	LHS	Structure
2	Km 0/169	Km 0/201	LHS	Structure
3	Km 0/210	Km 0/269	RHS	BW
4	Km 0/510	Km 0/590	RHS	BW
5	Km 0/681	Km 0/703	RHS	Structure
6	Km 0/685	Km 0/715	LHS	BW
7	Km 0/770	Km 0/782	RHS	Structure
8	Km 0/789	Km 0/695	LHS	Structure
9	Km 1/070	Km 1/080	RHS	Structure
10	Km 5/075	Km 5/085	LHS	Structure

6.0 Sub-Soil Conditions of Proposed Road

Soil properties is almost same on entire stretch of proposed road. Soil properties are as under -

1. Soil Group - GC
2. CBR Value - 19
3. Value of C - 0
4. Value of ϕ - 35
5. Compressive strength - 16 T/M²

Above parameter shows that soil conditions are good for a road pavement as well as for foundation of structures.

7.0 Traffic Characteristics of Proposed Road

There is low to medium traffic on proposed road. But heavy traffic in between 5pm to 6pm in Km 0/0 to Km 1/500 (Urban / City portion). Traffic volume at peak hours just double with respect to present road capacity with in Km 0/0 to Km 1/500. Particularly Delhi gate is very congested. Generally light motor vehicles , cars , two wheeler moves on this stretch during peak hours. But multi axle vehicles also moves (travel) on entire road in the night. More traffic may divert on this road after widening and strengthening.


8.0 Bridge Inventory

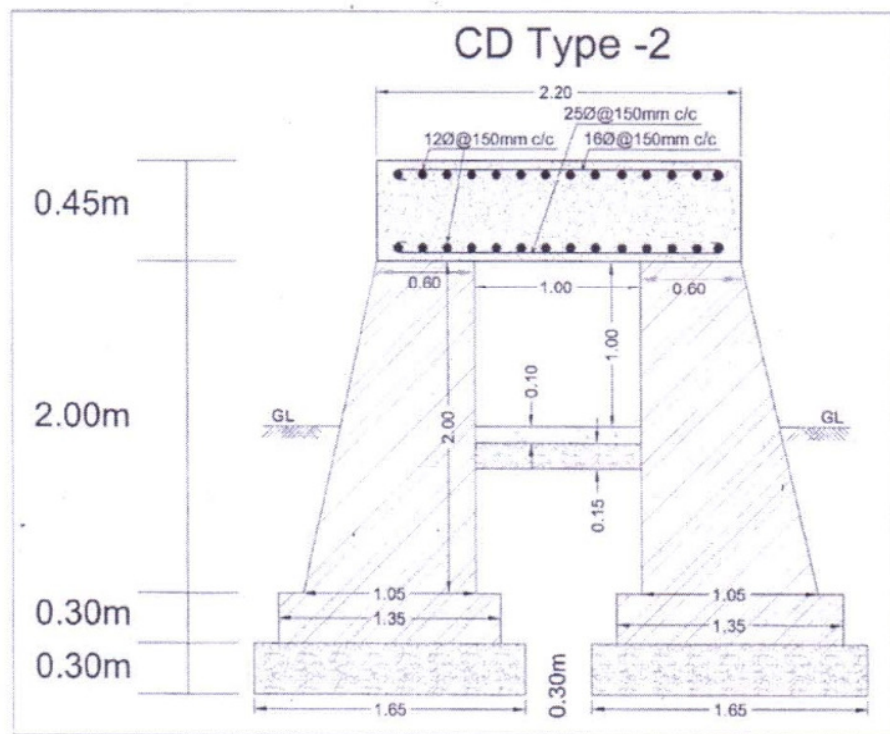
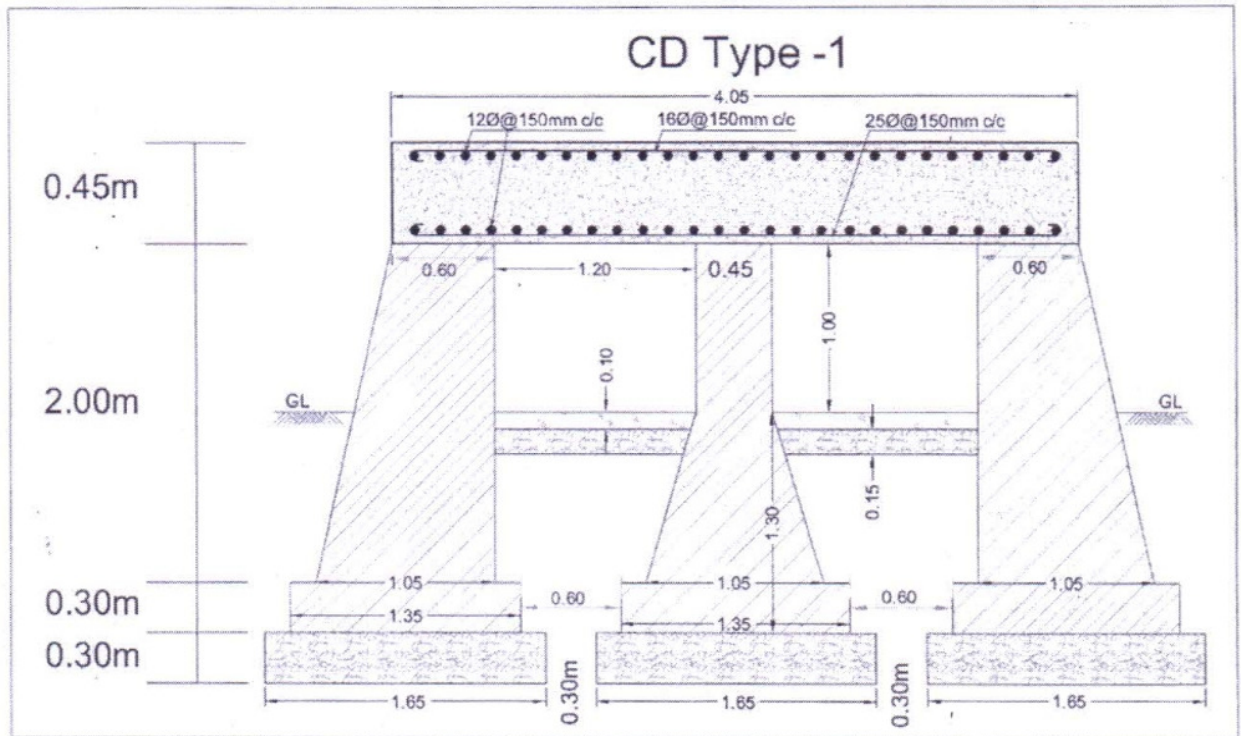
There are 15 small bridges / Culvert / Cross Drainage Work at the proposed road. The detail of bridges as under -

S. No.	Chainage	Detail
1	Km 0/306	CD with RCC solid slab. 2 span of 1.20m
2	Km 1/171	
3	Km 1/292	CD with RCC solid slab. 2 span of 1.20m
4	Km 1/505	RCC Hume Pipe Culvert. 2 Pipe 600mm dia
5	Km 1/731	RCC Hume Pipe Culvert. 2 Pipe 600mm dia
6	Km 2/265	CD with RCC solid slab. 1 span of 1.00m
7	Km 2/309	CD with RCC solid slab. 1 span of 1.00m
8	Km 2/540	RCC Hume Pipe Culvert. 2 Pipe 600mm dia
9	Km 2/660	RCC Hume Pipe Culvert. 2 Pipe 600mm dia
10	Km 3/281	RCC Hume Pipe Culvert. 2 Pipe 600mm dia
11	Km 3/369	CD with RCC solid slab. 1 span of 1.00m
12	Km 3/892	CD with RCC solid slab. 1 span of 1.50m
13	Km 4/805	RCC Hume Pipe Culvert. 2 Pipe 600mm dia
14	Km 5/108	CD with RCC solid slab. 3 span of 1.20m
15	Km 6/025	CD with RCC solid slab. 1 span of 1.50m


Drawings of CD works / Culverts are as under :

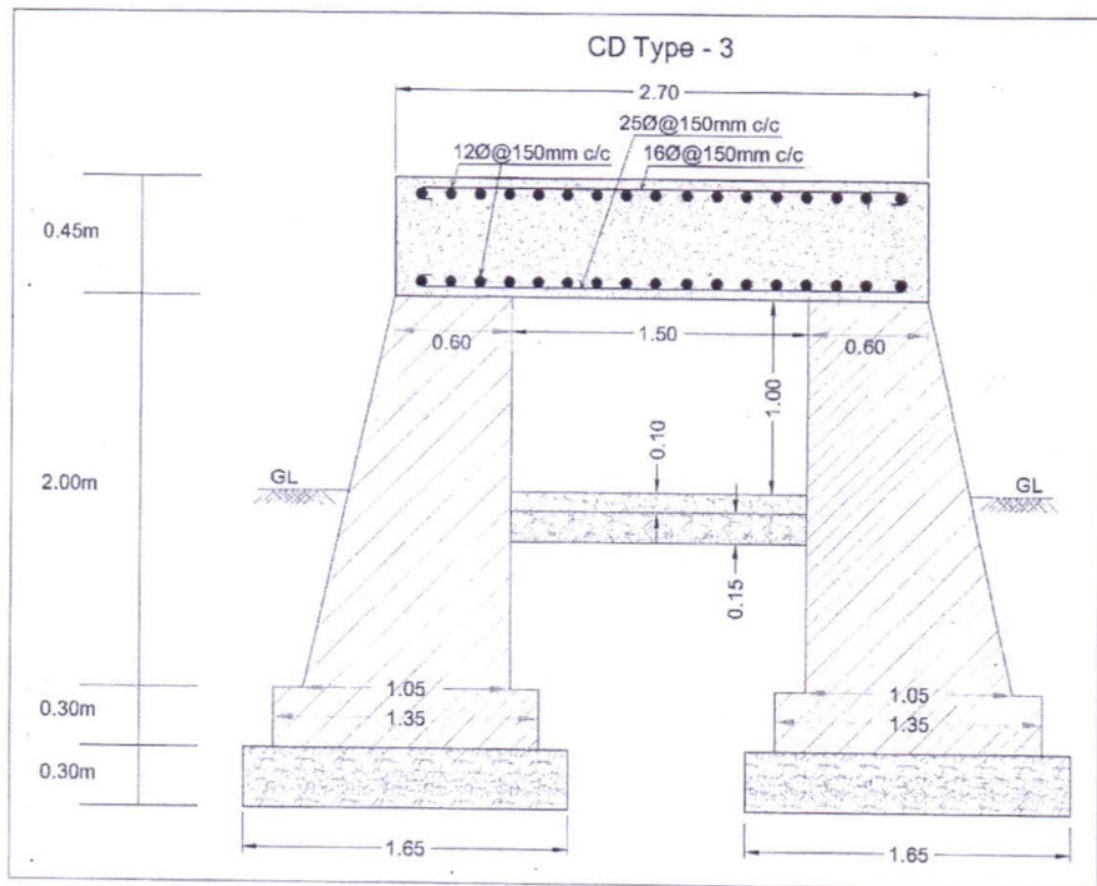
Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.


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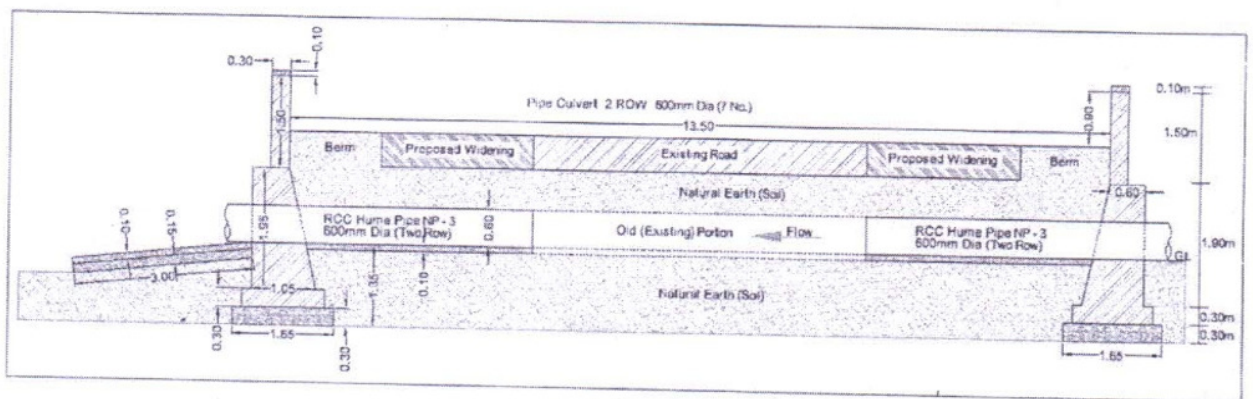
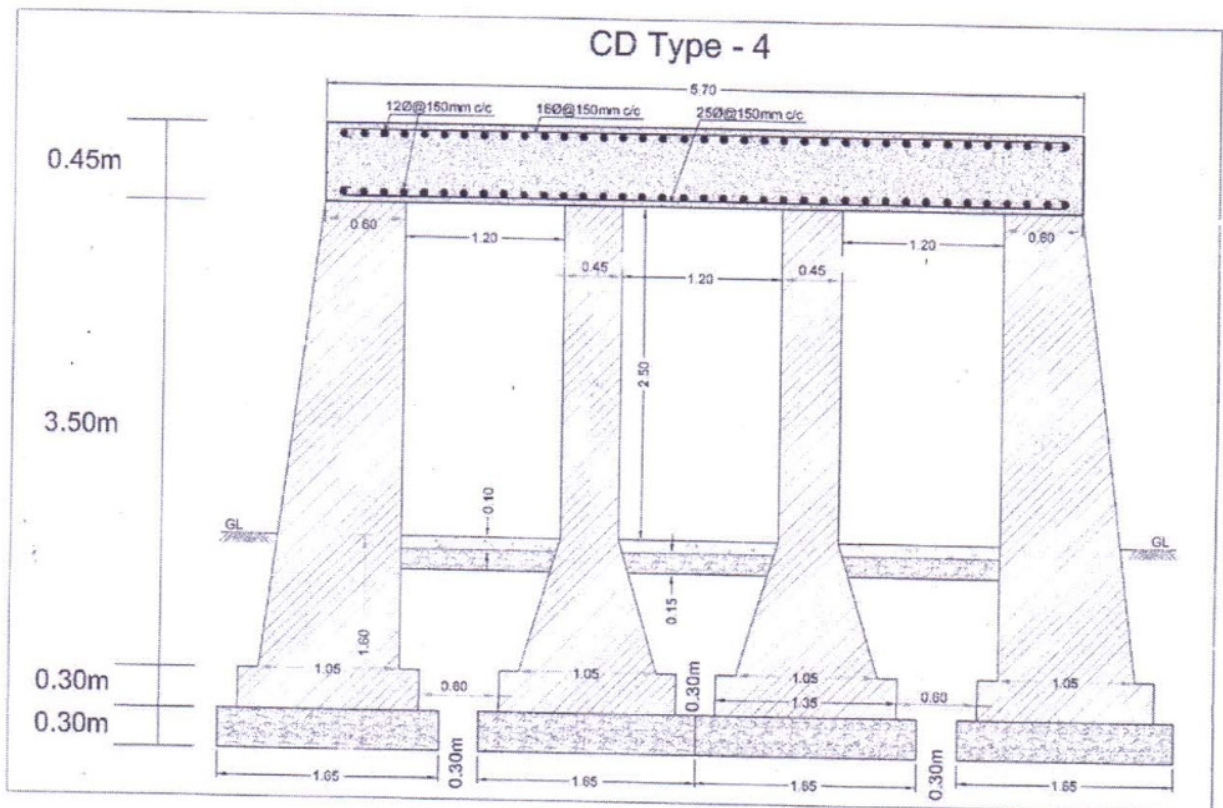
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Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.

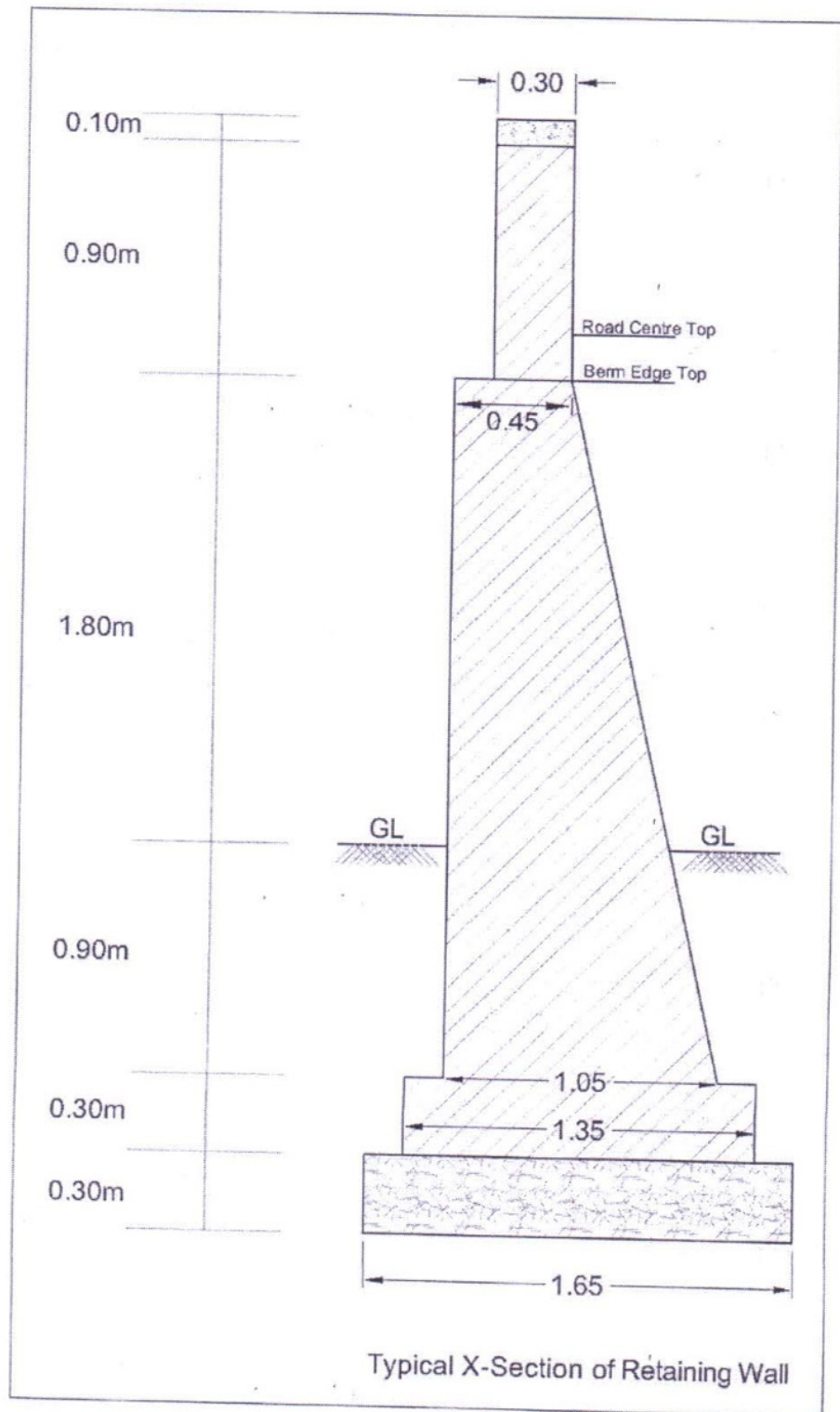

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Pipe Culvert

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh, Rajasthan.


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Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.

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OFFICE OF THE URBAN IMPROVMENT TRUST CHITTORGARH (RAJ.)


Technical Report

S.No.	Items	Description
1	Name of work	Windening and Recarpanting of Road from Delhi Gate to NH- 79 Manpura Road.
2	Authority	Govt. of Rajasthan Under Shari Jan Sahbhagita Yojana.
3	A/F Sanction	Rs. 748.00 Lacs from Distt. Collector Wide Latter No. सामान्य/एसजेएसवाई/आदेश/2016/1542 दिनांक 21 अक्टूबर, 2016 राज्य सरकार की 50 प्रतिशत हिस्सा राशि 374.00 लाख की स्वीकृति स्थानीय निकाय विभाग, जयपुर के पत्र क्रमांक एफ.8 () लेखा/SJSY/PD/DLB/2013-14/15322 Date 27-12-2016 न्यास की 20 प्रतिशत हिस्सा राशि 149.60 लाख की स्वीकृति राजस्थान सरकार नगरीय विकास विभाग, जयपुर के पत्र क्रमांक प. 8 (4) नविवि/1/2015 दिनांक 03.01.2017
4	Technical Sanction	748.00 Lacs from Trust
5	Working Agency	UIT, Chittorgarh As per Distt. Collector Latter No. सामान्य/एसजेएसवाई/आदेश/2016/1542 दिनांक 21 अक्टूबर, 2016
6	Necessity of work	This is one of the main Entrence of the Chittorgarh City so it have High Traffic Problem. To solve the Problem of Traffic and Safety it is Necessiry to Widen the road from Delhi Gate to Highway. Road Widening is Permanent Cure of Traffic Management. One of other Advantage of Widening the Lanes Road is to Reduce Side Swap Traffic and Reduce Turn off Road Crashes.
7	Speciffication	(A) 1 Length of Road 6.2 KM 2 Existing Road Pavement Width -5.50 Mtr 3 Road to be Widended on each side – 2.5 Mtr (B) 1 GSB 1 Layer – 0.20 Mtr. Thick 2 W.M.M. 3 Layer – 0.10 Mtr. Thick each 3 D.B.M. – 1 Layer – 50 to 75 MM Thick 4 B.C. – 1 Layer – 30 to 45 MM Thick
8	B.S.R.	Based on PWD- 2016 BSR for Road Works Circle Chittorgarh.

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9	Project Cost	748 Lacs
10	Project Completion Period	12 Month
11	Other Details	1 L-Section of Road 2 Cross-Sections of Road 3 Survey Map of Road Alimant 4 Earth work Calculation Sheet


 Junior Engineer
 UIT, Chittorgarh


 Assistant Engineer
 UIT, Chittorgarh


 Executive Engineer
 UIT, Chittorgarh

Estimate for Windening and Recarpanting of Road from Delhi Gate to NH- 79
 Manpura Road Technically Sanctioned for Rs. 748.00 Lacs

No. ----- Date ----- Ch.Head -----
 Submitted for Competent approval for T.S. of Rs. 748.00 Lacs



 Executive Engineer
 UIT, Chittorgarh


Suprintending Engineer/Additonal Chief Engineer/ Chief Engineer


may be placed before Trust for competent approval.



Estimate Technically Sanctioned in
 Trust meeting dated 22.2.17


 31.01.17
 मुख्य अभियन्ता
 नगरीय विकास विभाग
 मुख्यालय, कोटा


 अधिशासी अभियन्ता
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 चित्तौड़गढ़ (राज.)


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 चित्तौड़गढ़ (राज.)

OFFICE OF THE URBAN IMPROVEMENT TRUST CHITTORGARH

GENERAL ABSTRACT


NAME OF WORK:- Widening, Stengthing and Recarpeting of road from Delhi Gate to NH - 79 manpur Road.

S.No.	DESCRIPTION	ESTIMATED COST IN LACS
1	Part -A ROAD WORK (6186M)	56441901.94
2	Part -B HUME PIPE CULVERTS- 7NO.	699142.64
3	Part -C RCC CD WORK TYPE -1, 2 NO.	869726.04
4	Part -D RCC CD WORK TYPE -2, 3 NO.	826060.41
5	Part -E RCC CD WORK TYPE -3, 2 NO.	595587.64
6	Part -F RCC CD WORK TYPE -4, 1 NO.	580178.05
7	Part -G RETAINING WALL(200 MM)	5565687.88
8	Part -H ELECTRIC LINE SHIFFTING WORK	5217310.00
	TOTAL	70795594.60
	ADD 4.5%	3185801.75
	ADD 15% AVVNL SUPERVISION CHARGES ON ELECTRIC WORK	797566.5
	GRAND TOTAL	74778962.85
	SAY	748.00 LACS


JUNIOR ENGINEER
UIT, CHITTORGARH


ASSISTANT ENGINEER
UIT, CHITTORGARH


EXECUTIVE ENGINEER
UIT, CHITTORGARH


अधिशार्शी अभियन्ता
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चित्तौड़गढ़ (राज.)


OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Stengthing and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
Part : A , Road Work

S.No.	Code No.	Particular	Quantity	Unit	Rate	Amount
1	R-2/3.1.1	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, removal of stumps, disposal of unserviceable Material and stacking of serviceable Material upto 1000m from road boundary. (MoRTH Specification : Clause 201). BY MANUAL MEANS. In area of Light Jungle	3.09	Hect	24474.00	75698.08
2	R-2/4.2.1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure 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 lift and lead of 1000 metres. [MoRTH Specification : Clause 202]. BY MECHANICAL MEANS. Cement concrete grade M-15 & M-20.	61.56	Cum	317.00	19514.52
3	R.3/1.3	Earth work in excavation for roadway in soil, including stacking/disposal of surplus Material exclusive of compensation of earth (MoRTH specification : clause 301 to 305). By Hydraulic Excavator CK-90 of 0.9 cum bucket capacity and dipper with disposal upto 1000 mtrs.	22135.00	Cum	33.00	730455.00
4	R-3/8	Construction of embankment with approved Material obtained from borrow-pits with all lift sandleads, transporting to site, spreading, grading to required slope and compacting by vibratory roller 8-10 to n neto meet requirement of Table 300 2 including cost of compensation for earth taken from private land with lead upto 1 km as per MoRTH Specification: Clause No. 305.	3709.00	Cum	98.00	363482.00
5	R-4/8	Providing, laying and spreading and compacting specified graded crushed stone in sub-base course including premixing the Material at OMC in mechanical mixer (Pugmill), cartage of mixed Material, laying in uniform layers with Motor Grader, F.E.Loader, on a prepared surface and compacting with Vibratory Compactor to achieve the desired density including all Material, labour, machinery, lighting barricading and maintenance of Diversion complete. (MoRTH specification clause 401). with all lead & lift	6186.00	Cum	911.00	5635446.00
6	R-6/1	Cleaning the existing WBM /WMM surface including removing of binding Material and other foreign matter with wire brushes, small picks, sweeping with brooms /soft brushes, finally dusting with old gunny bags and compressed air to receive bituminous treatment. (MoRTH specification clause 501 to 503, 112).	30930.00	Sqm	6.00	185580.00


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7	R-6 / 2	Cleaning of the existing black topped surfaces with brooms, soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous streamment (MoRTH specification: clause to 503, 112	34023.00	Sqm	3.20	108873.60
8	R-5 / 2	Providing, laying, spreading and compacting crushed graded stone aggregate as per Table 400-10 & 400.11 to Wet Mix Macadam specifications in including premixing the Material with water to OMC in mechanical mixer (Pugmill) as per design mix, carriage of mixed Material by tipper to site laying in uniform layers, with motor grader / F.E. loader / Paver Finisher, in sub-base / base course on a well prepared under-base and compacting with Vibratory Roller to achieve the desired density including lighting, guarding, barricading and maintenance of Drivers n etc. (MoRTH specification : Clause 406), with all lead & lift	9279.00	Cum	1050.00	9742950.00
9	R-6 / 4	Providing and applying primer coat over prepared surface Of granular base with bitumen emulsion as per IS : 8887 & manufacturer "specifications @ 6 kg /10 sqm with a self propelled or to wet bitumen pressure sprayer equipped for spraying the Material uniformly at specified rates and temperatures (including cleaning of road surface) as per MoRTH specification : Cl. 502, 112	30930.00	Sqm	24.00	742320.00
10	R-6 / 5	Providing and applying tack coat on the prepared surface, with bitumen emulsion as per IS : 8887 & manufacturer specifications @ 0.2 kg/ sqm with as self propelled or to wet bitumen pressure sprayer equipped for spraying the Material uniformly at specified rates and temperatures (including cleaning of road surface)as per MoRTH specification Cl. 502, 112. Add extra for 0.1 kg extra in emulsion per sqm (One coat on 10.5m width + one more coat on 5.0m width / widening portion).	95883.00	Sqm	9.00	862947.00
11	R-6 / 10.1	Providingr and laying Dense Bituminous Macadam on prepared surface with specified graded crushed aggregates (as per table 500-9,500-10 and design mix) for base /binder course including loading of Material with F. E. loader, heating of binder (including cost of antistripping compound ,wherever required) aggregates and filler in hot mix plant (40-60 TPH) , transporting the mixed Material by tippers and laying with sensor paver finisher as per clause 504.3.5 required level and grade , rolling by self propelled power roller sand vibratory rollers or pneumatic tyre droller , 150-250 KN.TP=0.7 Mpa ,to achieve the desired density (approved by the department)but excluding primer /tack coat. (MoRTH specification : clause 505, 112). with all lead & lift (a)50-75 mm compacted thickness with 4.5% bitumen content VG 30 grade with lead of mixed Material 1 km	2319.75	Cum	5841.00	13549659.75


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 सिनोडाद (राज.)

12	R-6 / 15.1	Providing and laying Bituminous Concrete as per Design Mix on prepared surface specified graded stone aggregates as per Table 500-17, for wearing course including loading of aggregates with F.E. loader and hot mixing of binder (including cost of anti-stripping compound, wherever required) and 3% cement filler with aggregates in Hot Mix Plant 40-60 TPH, transporting the mixed Material with tipper to paver and laying with sensor paver finisher (as per clause 504-3.5) to the required level, grades and rolling with vibratory compactor and pneumatic tyred roller 150-250 kN, TP = 0.7 Mpa, to achieve the desired density (approved by the department as per job mix) excluding cost of primer \ tack coat. (MoRTH specification: clause 507). 15.1, 30-45 mm compacted with 6% binder with lead of mix Material 1 km 15.1.1 (a) With strai <input type="checkbox"/> ht run bitumen Grade VG30	2922.89	Cum	7181.00	20989237.19
13	R-9 / 13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorisng Glass Beads on Bituminous Surface. Providing and laying of hot applied on plastic compound 2.5 mm thick including reflector is in glass beads @ 250 gms per sqm area. thickness qt 2.5 mm is exclusive of surface applied glass beads as per IRC: 35. The finished surface of be level I, uniform and free from streaks and holes.	5567.40	Sqm	547.00	3045367.80
14	R-9 / 14	Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and MoRD Specification Clause 1703				
	I	5th Kilometre Stone (precast)	1.00	Each	2431.00	2431.00
	II	Ordinary Kilometer Stone (Precast)	5.00	Each	1454.00	7270.00
	III	200 m stone (precast)	24.00	Each	418.00	10032.00
15	R-9 / 4.1	Retro-Reflectorisng Traffic Signs Providing and fixing of retro- reflectorisng cautionary, mandatory and informatory sign as per IRC :67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing. 90 cm equilateral triangle.	50.00	Each	2097.00	104850.00
16	R-9 / 5	Direction and Place Identification Signs upto 0.9 sqm Size Board. Providing and erecting direction and place identification retro-reflectorisng sign as per IRC:67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing	45.00	Sqm	3429.00	154305.00
17	R-9 / 16	Boundary pillar : Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25-1967, fixed in position including finishing and lettering but excluding painting.	150.00	Each	372.00	55800.00


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18	R-9 / 57	<p>Raised Pavement Marker (Cats Eyes) : Supplying and Fixing of Molded Shank Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 100 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 700 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The contractor shall submit 2 years pre qualified warranty certificate from the manufacturer for satisfactory field performance during the time of bid submission.</p>	300.00	Each	185.61	55683.00
						56441901.94

564.42

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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Stengthing and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
Part- B (RCC Hume Pipe Culvert - 7 No.)

S.No.	Code No.	Particular	Quantity of 7 Culverts	Unit	Rate	Amount
1	B-1/1.1.4	Earthwork in excavation for foundation of structure complete with all lift, dewatering shoring and shuttering etc. including refilling of trenches in 250 mm layer, ramming, watering and disposal of surplus soil within a lead of 1000 meters, as per drawing and technical Earth in excavation for foundation of specification. [MORTH Specification : Clause 304]. In ordinary soil. BY MECHANICAL MEANS , Depth upto 3m.	111.93	Cum	68.00	7611.24
2	R-8/1.2.2 (b)	Providing & laying mechanically mixed and vibrated Cement Concrete in foundation upto a depth of 1.5mtr. below ground level and 1.5mtr above ground/bed level. [MORTH Specification : Clause 1000/1700].) Cement concrete 1:3:6 mix with stone aggregate 40 mm crusher broken.	38.22	Cum	2855.00	109118.10
3	R-8/2	Providing and laying Plain Cement Concrete M-15 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated in foundation upto a depth of 1.50 below ground level and or 1.50mtr. above ground/bed level.	6.30	Cum	3523.00	22194.90
4	R-8/12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MORTH Specification : Clause 1000/1400].	120.68	Cum	2980.00	359626.40
5	R-8/18	Providing cement plaster 20mm thick in cement mortar 1:3 at all levels (MORTH specification : clause 1000/1300).	126.00	Sqm	140.00	17640.00
6	R-8/20.3	Providing and laying reinforced cement concrete pipe NP3 for culverts including jointing and - fixing collar with cement mortar 1:2 (MORTH SPECIFICATION) CLAUSE 1000/2900 600 mm dia	56.00	RM	3267.00	182952.00
Total						699142.64

6.99

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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Stengthing and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
Part : C , RCC Culvert Type - 1 (2 No. 1 & 3)

S.No.	Code No.	Particular	Quantity	Unit	Rate	Amount
1	B-1/1.1.4	Earthwork in excavation for foundation of structure complete with all lift, dewatering shoring and shuttering etc. including refilling of trenches in 250 mm layer, ramming, watering and disposal of surplus soil within a lead of 1000 meters, as per drawing and technical Earth in excavation for foundation of specification. [MoRTH Specification : Clause 304]. In ordinary soil. BY MECHANICAL MEANS , Depth upto 3m.. (2 Side X 3 Wall X 4.00 Long X 1.65 Wide X 1.60 Ht)	126.72	Cum	68.00	8616.96
2	R-8/1.2.2 (b)	Providing & laying mechanically mixed and vibrated Cement Concrete in foundation upto a depth of 1.5mtr, below ground level and 1.5mtr above ground/bed level. [MoRTH Specification : Clause 1000/1700].) Cement concrete 1:3:6 mix with stone aggregate 40 mm crusher broken	29.52	Cum	2855.00	84279.60
3	R-8/2	Providing and laying Plain Cement Concrete M-15 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated in foundation upto a depth of 1.50 below ground level and or 1.50mtr. above ground/bed level.	4.33	Cum	3523.00	15254.59
4	R-8/12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MoRTH Specification : Clause 1000/1400]. 1st Course	142.14	Cum	2980.00	423577.20
5	R-8/18	Providing cement plaster 20mm thick in cement mortar 1:3 at all levels (MoRTH specification : clause 1000/1300). Wall	86.16	sqm	140.00	12062.40
6	R-8/26	Reinforced cement concrete M-30 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated for reinforced concrete work in slab in uperstructure at any level excluding steel reinforcement, but including centering and shuttering laid in position (MoRTH specification : clause 1000/1700).	29.16	Cum	4878.00	142242.48
7	R-8/6.2	Providing and fabricating Steel reinforcement for RCC works including cutting, bending, placing in position and binding complete including cost of binding wire. (MoRTH specification : Clause 1000/1600). HYSD bars	3428.00	Kg	53.586	183692.81
Total						869726.04

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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Stengthing and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
Part : D , RCC Culvert Type - 2 (3 No. 6 , 7 & 11)

S.No.	Code No.	Particular	Qty of 3 CD	Unit	Rate	Amount
1	B-1/1.1.4	Earthwork in excavation for foundation of structure complete with all lift, dewatering shoring and shuttering etc. including refilling of trenches in 250 mm layer, ramming, watering and disposal of surplus soil within a lead of 1000 meters, as per drawing and technical Earth in excavation for foundation of specification. [MoRTH Specification : Clause 304], In ordinary soil. BY MECHANICAL MEANS , Depth upto 3m.. (2 Side X 2 Wall X 4.00 Long X 1.65 Wide X 1.60 Ht)	126.72	Cum	68.00	8616.96
2	R-8/1.2.2 (b)	Providing & laying mechanically mixed and vibrated Cement Concrete in foundation upto a depth of 1.5mtr. below ground level and 1.5mtr above ground/bed level. [MoRTH Specification : Clause 1000/1700].) Cement concrete 1:3:6 mix with stone aggregate 40 mm crusher broken	27.36	Cum	2855.00	78112.80
3	R-8/2	Providing and laying Plain Cement Concrete M-15 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated in foundation upto a depth of 1.50 below ground level and or 1.50mtr. above ground/bed level.	2.80	Cum	3523.00	9864.40
4	R-8/12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MoRTH Specification : Clause 1000/1400].	150.69	Cum	2980.00	449056.20
5	R-8/18	Providing cement plaster 20mm thick in cement mortar 1:3 at all levels (MORTH specification : clause 1000/1300).	80.76	Sqm	140.00	11306.40
6	R-8/26	Reinforced cement concrete M-30 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated for reinforced concrete work in slab in uperstructure at any level excluding steel reinforcement, but including centering and shuttering laid in position (MoRTH specification : clause 1000/1700).	23.76	Cum	4878.00	115901.28
7	R-8/6.2	Providing and fabricating Steel reinforcement for RCC works including cutting, bending, placing in position and binding complete including cost of binding wire. (MoRTH specification : Clause 1000/1600). HYSD bars	2859.00	Kg	53.59	153202.37
Total						826060.41

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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Strengthening and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
Part : F , RCC Culvert Type - 4 (1 No. 14)

S.No.	Code No.	Particular	Quantity	Unit	Rate	Amount
1	B-1 / 1.1.4	Earthwork in excavation for structures as per drawing and MoRD specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil. Upto 3 m depth. (2 Side X 4 Wall X 4.00 Long X 1.65 Wide X 1.60 Ht)	84.48	Cum	68.00	5744.64
2	R-8 / 1.2.2(b)	Providing concrete for plain / reinforced concrete in open foundations complete as per drawings and MoRD specifications Clause 802, 803, 1202 & 1203, P.C.C grade M 10. Nominal mix 1:3:6.	20.16	Cum	2855.00	57556.80
3	R-8 / 2	Plain / reinforced cement concrete in substructure complete as per drawings and MoRD specification Clauses 802, 804, 805, 806, 807, 1202 and 1204. For height upto 5 m. P.C.C. grade M 20. Nominal mix (1:2:4).	3.22	Cum	3523.00	11344.06
4	R-8 / 12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MoRTH Specification : Clause 1000/1400].	101.16	Cum	2980.00	301456.80
5	R-8 / 18	Plastering with cement mortar (1:4), 20 mm thick on Stone work.	49.02	Sqm	140.00	6862.80
6	R-8 / 26	Reinforced cement concrete M-30 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated for reinforced concrete work in slab in superstructure at any level excluding steel reinforcement, but including centering and shuttering laid in position (MoRTH specification : clause 1000/1700).	13.68	Cum	4878.00	66731.04
7	R-8 / 6.2	Providing and fabricating Steel reinforcement for RCC works including cutting, bending, placing in position and binding complete including cost of binding wire. (MoRTH specification : Clause 1000/1600), HYSD bars	2435.00	Kg	53.586	130481.91
Total						580178.05

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5.80

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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH

NAME OF WORK:- Widening, Stenghting and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway

Part : G , Retaining Wall

S.No	Code No.	Particular	Quantity	Unit	Rate	Amount
1	B-1/1.1.4	Earthwork in excavation for structures as per drawing and MoRD specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil. Upto 3 m depth.	1299.38	Cum	68.00	88357.50
2	R-8/1.2.2(b)	Providing concrete for plain / reinforced concrete in open foundations complete as per drawings and MoRD specifications Clause 802, 803, 1202 & 1203. P.C.C grade M 10. Nominal mix 1:3:6.	259.88	Cum	2855.00	741943.13
3	R-8/2	Plain / reinforced cement concrete in substructure complete as per drawings and MoRD specification Clauses 802, 804, 805, 806, 807, 1202 and 1204. For height upto 5 m. P.C.C. grade M 20. Nominal mix (1:2:4).	15.75	Cum	3523.00	55487.25
4	R-8/12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MoRTH Specification : Clause 1000/1400].	1417.50	Cum	2980.00	4224150.00
6	R-8/18	Plastering with cement mortar (1:4), 20 mm thick on Stone work.	2362.50	Sqm	140.00	330750.00
8	B-13/16	Providing A.C. pipe Weep holes 150mm dia in Masonry/plain Concrete/Reinforced Concrete abutment, wing wall/return wall complete as per drawing and technical specification. [MoRTH	1000.00	Mtr	125.00	125000.00
Total						5565687.88

55.66

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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH

NAME OF WORK :- Windening and Recarpanting of Road from Delhi Gate to NH- 79 Manapura Road.

Part H - Electric Shifting Works

S. NO.	Code No.	Particular	Qunt.	Unit	Rate	Amount
1	E210101	Supply and erection of P.C.C./R.C.C. pole as per REC manual no 15/1979 conforming to IS: 2905/1966 including excavation of pit and back filling with stone aggregate/boulders and soil in 0.45m consolidating each deposited layer of 0.45m by ramming and watering etc complete in all respect. 8.0 Mtr long as per Discom specification	40	Each	2660.40	106416.00
2	E210103	Supply and erection of P.C.C./R.C.C. pole as per REC manual no 15/1979 conforming to IS: 2905/1966 including excavation of pit and back filling with stone aggregate/boulders and soil in 0.45m consolidating each deposited layer of 0.45m by ramming and watering etc complete in all respect. 9.0 Mtr long (400 Kg) as per Discom specification	110	Each	4328.40	476124.00
3	E210201	Supply and erection of GI stay set as per Discom specification complete with long stay rod with anchor plate including stay clamps turn buckle and G.I stay wire tightened through strain insulator, in cement concrete 1:3:6 including excavation of pit-re-filling etc as reqd. Stay set of dia 20mm, 2.4m long stay rod and anchor plate 380x380x6.4mm	10	Each	1319.0	13190.00
4	E210301	Supply and fixing of following LT Supporting accessories with nut bolt & Clamps made out as per standard Discom's specifications. LT cross arm 600 mm long with clamp	150	Each	280.00	42000.00
5	E210302	Supply and fixing of following LT Supporting accessories with nut bolt & Clamps made out as per standard Discom's specifications. LT cross arm 1200 mm long with clamp	150	Each	480.00	72000.00
6	E210401	Supply and fixing of LT porcelain pin insulator as per IS 1445-1997 suitable for working voltage 1100 volts including all accessories like hot dip GI forged spindle of 260mm long and nuts etc as reqd as per Discom specification. 105mm x 65mm	400	Each	55.00	22000.00
7	E210501	Supply and fixing of porcelain shackle insulator as per IS:1443 1979 suitable for working on 1100 volts including hot dipped GI accessories and heavy duty hardwares etc as required as per Discom specification. 75mm x 90mm	160	Each	65.00	10400.00

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8	E210603	Supplying and drawing overhead steel core Aluminium conductor (ACSR) ISI marked/IS 398 part II-1996) on existing cross arms through insulator with all necessary T&P required including binding and twisting etc. complete in all respect as required as per Discom specification. 50 Sqmm of (6+1) 3.35 mm (Insulated Rabbit)	15000	Rmtr	62.00	930000.00
			Total PART A			1672130.00

Part B

1	E210701	Supply and fixing of 'V' type cross arms made of MS channel on the existing poles complete including all necessary nut and bolt etc with clamps as per Discom specification. 11kV cross arms (75 x 40 x 6.8 kg/mtr)	24	Each	850.00	20400.00
2	E210811	Supply and fixing of top hamper on the existing pole complete including nut bolts etc as required. 11 kV (.7m long) (65 x 65 x6mm angle)	24	Each	315.00	7560.00
3	E211300	Supply and fixing 11kV pin insulator (IS 731/ 1971) with minimum creepage distance of 300mm on existing bracket including all accessories like hot dipped GI spindle and nuts etc (as per specification of Discom).	48	Each	135.00	6480.00
4	E211403	Supply and fixing 11kV Disc insulator (IS 731/ 1971) with minimum creepage distance of 300mm on existing bracket including all accessories like hot dipped GI spindle and nuts etc (as per specification of Discom).	96	Each	406.00	38976.00
5	E211401	Supply and fixing 11kV Disc insulator (IS 731/ 1971) with minimum creepage distance of 300mm on existing bracket including all accessories like hot dipped GI spindle and nuts etc (as per specification of Discom). B & S type hardware 45 KN	48	Each	560.00	26880.00
6	E211700	Supplying and fixing of straight type 1.5 mtr long cross arms made out from MS angle of size 50 x 50 x 6mm for guarding on existing poles complete including 2 nos 150mm long MS flat of size 50 x 6mm bend into shape at both the ends duly welded clamps, nut and bolt etc as required.	24	Each	540.00	12960.00
7	E212200	Supply and fixing double pole structure for 11/0.4 Kv substation as per Discom specification complete in all respect as required including nuts and bolts etc (excluding the cost of poles) made of MS channel of 4 nos 100 x 50 x 6mm and 4 nos 75 x 40 x 6mm and MS flat 50 x 6mm as per Discom specifications.	16	Each	9570.00	153120.00

8	E150100	Pipe Earthing as per IS:3043 with perforated 3.0 Mtr. Long, 40 mm dia. 'B' class G.I. Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300 mm and embodying the pipe complete with alternate layers salt and coke/charcoal, testing of earth resistance as required.	96	Set	1650.00	158400.00
9	E212000	Supply and fixing of 11kV, 400 Amp 3pole, central pot rotating double break type isolator (IS:9921 part I toV) without earth blade operating mechanism with GI spring loaded reverse loop type fixed contact, solid hard drawn electrolytic copper tubular moving contact with silver/ nickel plated at end points, 9 nos post insulator of 12 kV (IS:2554 & IS 5350 part III), hot dipped galvanising hard ware, nut, bolts etc complete in all respect as per specification of Discom. (Type tested by ERDA/CPR1.)	16	Each	13150.00	210400.00
10	E211900	Supply and fixing 100 Amp, 11kV Horn gap fuse set IS 9385 on existing DP structure with 6 nos 24kV/22kV post insulator (IS:5350 part III), hot dipped hard ware, fuse wire of required size etc. complete in all respect as per specification given by Discom. (Type tested by ERDA/CPR1)	16	Each	6050.00	96800.00
11	E212100	Supply and fixing of distribution type Lightning arrestor 9 kV, 10 kA (IS:3070) with mounting breaking to be installed on existing DP structure. (Type tested by ERDA/CPR1.)	16	Each	2385.00	38160.00
12	E211800	Supply and fixing of pillar box made of 2 mm thick powder coated CRCA sheet of 415 volts 3 phase 4 wire triple pole and neutral type, complete in all respect as required. Including knife switch of 400 amp. rating, HRC fuses with copper one piece U contacts base, brass studs and nuts, copper busbar for main and interconnection, MS angle frame of 50 x 50 x 6 mm grouted with C.C. of M-10 grade to achieve the height of 1.5 feet above the road level suitable for four outgoing.	16	Each	42500.00	680000.00
13	E110113 D	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, 11nd class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size. 3.5 core	560	mtr.	917.00	513520.00
14	E150705	S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required. 8 SWG G.I. (Hot Dipped) Wire	3000	mtr.	9.00	27000.00

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15	E210605	Supplying and drawing overhead steel core Aluminium conductor (ACSR) ISI marked (IS 398 part II-1996) on existing cross arms through insulator with all necessary T&P required including binding and twisting etc. complete in all respect as required as per Discom specification. 100 sqmm of (6/4.72 mm+1/1.57 mm) (Dog)	4000	mtr.	89.00	356000.00
16	E280202	S I T C of BEE 3 star rated Aluminium wound Transformer conforming to IS: 2026 & Losses as per Discom's CTL (CTL Test certificate to be attached) of rating 11/0.433KV Delta-Star Connected, Vector Group Dyn 11, standard accessories like conservator, silica gel breather, radiator, fins, HT bushing & LT cableboxes, Off -LTC (+/- 5% in steps of 2.5%) winding temperature rise of 50/55 C, ISI marked drain valve, Dial type Temperature gauge, first fill of oil, Epoxy based paint, including carrying of pre-commission Testing & Charging of Transformer. (See table - 08 for CTL Losses)	5	Each	187000.00	935000.00
17	E280204	S I T C of BEE 3 star rated Aluminium wound Transformer conforming to IS: 2026 & Losses as per Discom's CTL (CTL Test certificate to be attached) of rating 11/0.433KV Delta-Star Connected, Vector Group Dyn 11, standard accessories like conservator, silica gel breather, radiator, fins, HT bushing & LT cableboxes, Off -LTC (+/- 5% in steps of 2.5%) winding temperature rise of 50/55 C, ISI marked drain valve, Dial type Temperature gauge, first fill of oil, Epoxy based paint, including carrying of pre-commission Testing & Charging of Transformer. (See table - 08 for CTL Losses)	1	Each	237380.00	237380.00
18	E210902	Supply and fixing of Cross arms made out from 100 x 50 x 5 mm MS channel complete in all respect as required including nuts and bolts and clamp as per Discom specification etc as required. 2 x 1.3 m long	16	Each	1634.00	26144.00
TOTAL PART B						3545180.00
TOTAL PART A+B						5217310.00
Grant Total						5217310.00

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चित्तौडगढ (राज.)
अधिकाधी अभियन्ता
नगर विकास न्यास
चित्तौडगढ (राज.)

सहायक अभियन्ता
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कनिष्ठ अभियन्ता
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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Strengthening and Recreeping of road from Delhi Gate to manpura to gopalnagar upto Highway
Part : A, Road Work


S.No.	Code No.	Particular.	No	L	W/T	H/D	Quantity	Unit
1	R-2/3.1.1	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, removal of stumps, disposal of unserviceable Material and stacking of serviceable Material upto 1000m from road boundary. (MoRTH Specification : Clause 201). BY MANUAL MEANS. In area of Light Jungle	2.00	6186.00	2.50	*****	3.09	Hect
2	R-2/4.2.1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure 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 lift and lead of 1000 metres. [MoRTH Specification : Clause 202]. BY MECHANICAL MEANS. Cement concrete grade M-15 & M-20.	38.00	6.00	0.45	0.60	61.56	Cum
3	R-3/1.3	Earth work in excavation for roadway in soil, including stacking/disposal of surplus Material exclusive of compensation of earth (MoRTH specification : clause 301 to 305). By Hydraulic Excavator CK-90 of 0.9 cum bucket capacity and tipper with disposal upto 1000 mtrs.	As pe Calculation by Computer				22135.00	Cum
4	R-3/8	Construction of embankment with approved Material obtained from borrow-pits with all lift sand/leads, transporting to site, spreading, grading to required slope and compacting by vibratory roller 8-10 to n neto meet requirement of Table 300 2 including cost of compensation for earth taken from private land with lead upto 1 km as per MoRTH Specification: Clause No. 305.	As pe Calculation by Computer				3709.00	Cum
5	R-4/8	Providing, laying and spreading and compacting specified graded crushed stone in sub-base course including premixing the Material at OMC in mechanical mixer (Pugmill), carriage of mixed Material, laying in uniform layers with Motor Grader, F.E.Loader, on a prepared surface and compacting with Vibratory Compactor to achieve the desired density including all Material, labour, machinery, lighting barricading and maintenance of Diversion complete. (MoRTH specification clause 401). with all lead & lift	2.00	6186.00	2.50	0.20	6186.00	Cum
6	R-6/1	Cleaning the existing WBM /MMM surface including removing of binding Material and other foreign matter with wire brushes, small picks, sweeping with brooms /soft brushes, finally dusting with old gunny bags and compressed air to receive bituminous treatment (MoRTH specification clause 501 to 503, 112).	2.00	6186.00	2.50	****	30930.00	Sqm

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7	R-6/2	Cleaning of the existing black topped surfaces with brooms, soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment (MoRTH specification: clause to 503, 112	1.00	6186.00	5.50	****	34023.00	Sqm
8	R-6/2	Providing, laying, spreading and compacting crushed graded stone aggregate as per Table 400-10 & 400. 11 to Wet Mix Macadam specifications in including premixing the Material with water to OMC in mechanical mixer (Pugmill) as per design mix, carriage of mixed Material by tipper to site laying in uniform layers, with motor grader / F.E. loader / Paver Finisher, in sub-base / base course on a well prepared under-base and compacting with Vibratory Roller to achieve the desired density including lighting, guarding, barricading and maintenance of Drivers etc. (MoRTH specification : Clause 406), with all lead & lift	2.00	6186.00	2.50	0.30	9279.00	Cum
9	R-6/4	Providing and applying primer coat over prepared surface Of granular base with bitumen emulsion as per IS : 8887 & manufacturer "specifications @ 6 kg /10 sqm with a self propelled or to wet bitumen pressure sprayer equipped for spraying the Material uniformly at specified rates and temperatures (including cleaning of road surface) as per MoRTH specification : Cl. 502, 112	2.00	6186.00	2.50	****	30930.00	Sqm
10	R-6/5	Providing and applying tack coat on the prepared surface, with bitumen emulsion as per IS :8887 & manufacturer specifications @ 0.2 kg/ sqm with as self propelled or to wet bitumen pressures prayer equipped for spraying the Material uniformly at specified rates and temperatures (including cleaning of road surface)as per MoRTH specification Cl. 502, 112. Add extra for 0.1 kg extra in emulsion per sqm (One coat on 10.5m width + one more coat on 5.0m width / widening portion).	1.00	6186.00	15.50	****	95883.00	Sqm
11	R-6/10.1	Providing and laying Dense Bituminous Macadam on prepared surface with specified graded crushed aggregates (as per table 500-9,500-10 and design mix) for base /binder course including loading of Material with F.E. loader, heating of binder (including cost of antistripping compound, wherever required) aggregates and filler in hot mix plant (40-60 TPH), transporting the mixed Material by tippers and laying with sensor paver finisher as per clause 504.3.5 required level and grade, rolling by self propelled power roller sand vibratory rollers or pneumatic tyre droller, 150-250 KN,TP=0.7 Mpa, to achieve the desired density (approved by the department)but excluding primer /tack coat. (MoRTH specification : clause 505, 112). with all lead & lift (a)50-75 mm compacted thickness with 4.5% bitumen content VG 30 grade with lead of mixed Material 1 km	2.00	6186.00	2.50	0.075	2319.75	Cum



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12	R-6 / 15.1	Providing and laying Bituminous Concrete as per Design Mix on prepared surface specified graded stone aggregates as per Table 500-17, for wearing course including loading of aggregates with F.E. loader and hot mixing of binder (including cost of anti-stripping compound, wherever required) and 3% cement filler with a aggregates in Hot Mix Plant 40-60 TPH, transporting the mixed Material with tipper to paver and laying with sensor paver finisher (as per clause 504-3.5) to the required level, grades and rolling with vibratory compactor and pneumatic tyred roller 150-250 kN, TP =0.7 Mpa, to achieve the desired density (approved by the department as per job mix) excluding cost of primer \ tack coat . (MoRTH specification : clause 507). 15.1, 30-45 mm compacted with 6% binder with lead of mix Material 1 km 15.1.1 (a) With straight run bitumen Grade VG30	1.00	6186.00	10.50	0.045	2922.89	Cum
13	R-9 / 13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface. Providing and laying of hot applied on plastic compound 2.5 mm thick including reflector is in 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 of be level, uniform and free from streaks and holes.	6.00	6186.00	0.15	****	5567.40	Sqm
14	R-9 / 14	Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and MoRD Specification Clause 1703						
	I	5th Kilometre Stone (precast)	1.00	*****	*****	*****	1.00	Each
	II	Ordinary Kilometre Stone (Precast)	5.00	*****	*****	*****	5.00	Each
	III	200 m stone (precast)	24.00	*****	*****	*****	24.00	Each
15	R-9 / 4.1	Retro-Reflectorised Traffic Signs Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing, 90 cm equilateral triangle.	50.00	*****	*****	*****	50.00	Each


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16	R-9 / 5	Direction and Place Identification Signs upto 0.9 sqm Size Board. Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing	45.00	*****	*****	*****	45.00	Sqm
17	R-9 / 16	Boundary pillar : Reinforced cement concrete M15 grade boundary pillars of standard design as per IRC:25-1967, fixed in position including finishing and lettering but excluding painting	150.00	*****	*****	*****	150.00	Each
18	R-9 / 57	Raised Pavement Marker (Cats Eyes) : Supplying and Fixing of Molded Shank Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 100 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30 +/- 2 mm) from the body is to be a minimum value of 700 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The contractor shall submit 2 years pre qualified warranty certificate from the manufacturer for satisfactory field performance during the time of bid submission.	300.00	*****	*****	*****	300.00	Each


महापंक अभियन्ता
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कानक अभियन्ता
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अधिशार्थी अभियन्ता
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 चित्तौड़गढ़ (राज.)

OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Strengthening and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
Part- B (RCC Hume Pipe Culvert - 7 No.)

S.No.	Code No.	Particular	No	L	W	H	Quantity of 1 Culvert	Quantity of 7 Culverts
1	B-1/ 1.1.4	Earthwork in excavation for foundation of structure complete with all lift, dewatering shoring and shuffling etc. including refilling of trenches in 250 mm layer, ramming, watering and disposal of surplus soil within a lead of 1000 meters, as per drawing and technical Earth in excavation for foundation of specification, [MORTH Specification : Clause 304], in ordinary soil. BY MECHANICAL MEANS, Depth upto 3m.						
		Wall Foundation	2.00	2.50	1.65	1.35	11.14	
		Under Pipe	2.00	2.50	3.70	0.10	1.85	
		D/S Floor	1.00	3.00	2.50	0.40	3.00	
		Total					15.99	111.93
2	R-8/ 1.2.2 (b)	Providing & laying mechanically mixed and vibrated Cement Concrete in foundation upto a depth of 1.5mtr. below ground level and 1.5mtr above ground/bed level. [MORTH Specification : Clause 1000/1700.] Cement concrete 1:3:6 mix with stone aggregate 40 mm crusher broken.						
		Foundation	2.00	1.65	2.50	0.30	2.48	
		Under Pipe	2.00	2.50	3.70	0.10	1.85	
		Under D/S Floor	1.00	3.00	2.50	0.15	1.13	
		Total					5.46	38.22
3	R-8/2	Providing and laying Plain Cement Concrete M-15 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated in foundation upto a depth of 1.50 below ground level and or 1.50mtr. above ground/bed level.						
		D/S Floor	1.00	3.00	2.50	0.10	0.75	
		Coping	2.00	2.50	0.30	0.10	0.15	
		Total					0.90	6.30
4	R-8/12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MORTH Specification : Clause 1000/1400]. 1st Course	2.00	2.50	1.35	0.30	2.03	
		2nd Course	2.00	2.50	1.33	1.95	12.96	
		Parapet	2.00	2.50	0.30	1.50	2.25	
		Total					17.24	120.68
5	R-8/18	Providing cement plaster 20mm thick in cement mortar 1:3 at all levels (MORTH specification : clause 1000/300). Walls	2.00	2.50	*****	1.20	6.00	
		Parapet Wall	2.00	2.50	*****	2.40	12.00	
		Total					18.00	126.00
6	R-8/ 20.3	Providing and laying reinforced cement concrete pipe NP3 for culverts including jointing ends and fixing collars with cement mortar 1:2 (MORTH specifications) clause 1000/2900 600 mm dia	4.00	2.00	*****	*****	8.00	56.00

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अधिसूची अभियन्ता

नगर विकास न्यास

चित्तौड़गढ़ (राज.)

कनिष्ठ अभियन्ता

नगर विकास न्यास

चित्तौड़गढ़

OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH

NAME OF WORK:- Widening, Stenghting and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway

Part : C , RCC Culvert Type - 1 (2 No. 1 & 3)

S.No.	Code No.	Particular	No	L	W	H	Quantity of 1 CD	Quantity of 2 CD	Unit
1	B-1 / 1.1.4	Earthwork in excavation for foundation of structure complete with all lift, dewatering shoring and shuttering etc. including refilling of trenches in 250 mm layer, ramming, watering and disposal of surplus soil within a lead of 1000 meters, as per drawing and technical Earth in excavation for foundation of specification. [MoRTH Specification : Clause 304], In ordinary soil. BY MECHANICAL MEANS , Depth upto 3m.. (2 Side X 3 Wall X 4.00 Long X 1.65 Wide X 1.60 Ht)	6.00	4.00	1.65	1.60	63.36	126.72	Cum
2	R-8 / 1.2.2 (b)	Providing & laying mechanically mixed and vibrated Cement Concrete in foundation upto a depth of 1.5mtr. below ground level and 1.5mtr above ground/bed level. [MoRTH Specification : Clause 1000/1700].) Cement concrete 1:3:6 mix with stone aggregate 40 mm crusher broken	6.00	4.00	1.65	0.30	11.88		
		Foundation							
		Under Floor	4.00	4.00	1.20	0.15	2.88		
		Total					14.76	29.52	Cum
3	R-8 / 2	Providing and laying Plain Cement Concrete M-15 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated in foundation upto a depth of 1.50 below ground level and or 1.50mtr. above ground/bed level.							
		Floor	4.00	4.00	1.20	0.10	1.92		
		Coping	2.00	4.05	0.30	0.10	0.24		
		Total					2.16	4.33	Cum

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4	R-8 / 12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MORTH Specification : Clause 1000/1400]. 1st Course	6.00	4.00	1.35	0.30	9.72		
		2nd Course (End Wall)	4.00	4.00	1.33	2.00	42.56		
		2nd Course (Mid Wall)	2.00	4.00	1.25	1.30	13.00		
		3rd Course (Mid Wall)	2.00	4.00	0.45	1.00	3.60		
		Parapet	2.00	4.05	0.30	0.90	2.19		
		Total				71.07	142.14	Cum	
5	R-8 / 18	Providing cement plaster 20mm thick in cement mortar 1:3 at all levels (MORTH specification : clause 1000/1300). Wall	6.00	4.75	****	1.00	28.50		
		Parapet Wall	4.00	4.05	****	0.90	14.58		
		Total				43.08	86.16		
6	R-8 / 26	Reinforced cement concrete M-30 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated for reinforced concrete work in slab in superstructure at any level excluding steel reinforcement, but including centering and shuttering laid in position (MORTH specification : clause 1000/1700).	2.00	4.05	4.00	0.45	14.58	29.16	Cum
7	R-8 / 6.2	Providing and fabricating Steel reinforcement for RCC works including cutting, bending, placing in position and binding complete including cost of binding wire. (MORTH specification : Clause 1000/1600). HYSD bars	1714.00	****	****	****	1714.00	3428.00	Kg

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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Strengthening and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
Part : D, RCC Culvert Type - 2 (3 No. 6, 7 & 11)

S.No.	Code No.	Particular	No	L	W / T	H / D	Quantity of 1 CD	Qty of 3 CD
1	B-1/1.1.4	Earthwork in excavation for foundation of structure complete with all lift, dewatering shoring and shuttering etc. including refilling of trenches in 250 mm layer, ramming, watering and disposal of surplus soil within a lead of 1000 meters, as per drawing and technical Earth in excavation for foundation of specification. [MoRTH Specification : Clause 304]. In ordinary soil. BY MECHANICAL MEANS, Depth upto 3m.. (2 Side X 2 Wall X 4.00 Long X 1.65 Wide X 1.60 Ht)	4.00	4.00	1.65	1.60	42.24	126.72
2	R-8/1.2.2 (b)	Providing & laying mechanically mixed and vibrated Cement Concrete in foundation upto a depth of 1.5mtr, below ground level and 1.5mtr above ground/bed level. [MoRTH Specification : Clause 1000/1700].) Cement concrete 1:3:6 mix with stone aggregate 40 mm crusher broken	4.00	4.00	1.65	0.30	7.92	
		Foundation	2.00	4.00	1.00	0.15	1.20	
		Under Floor					Total	27.36
3	R-8/2	Providing and laying Plain Cement Concrete M-15 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated in foundation upto a depth of 1.50 below ground level and or 1.50mtr. above ground/bed level.	2.00	4.00	1.00	0.10	0.80	
		Floor	2.00	2.20	0.30	0.10	0.13	
		Coping					Total	2.80
4	R-8/12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MoRTH Specification : Clause 1000/1400]. 1st Course	4.00	4.00	1.35	0.30	6.48	
		2nd Course	4.00	4.00	1.33	2.00	42.56	


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नगर विकास न्यास
चिलीकाट

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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH

NAME OF WORK:- Widening, Stenghting and Recarpeting of road from Delhi Gate to manpura to gopainagar upto Highway

Part : E . RCC Culvert Type - 3 (2 No. 12 & 15)

S.No.	Code No.	Particular	No	L	W / T	H / D	Qty of 1 CD	Qty for 2 CD	Unit
1	B-1 / 1.1.4	Earthwork in excavation for structures as per drawing and MoRD specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil. Upto 3 m depth. (2 Side X 2 Wall X 4.00 Long X 1.65 Wide X 1.60 Ht)	4.00	4.00	1.65	1.60	42.24	84.48	Cum
2	R-8 / 1.2.2(b)	Providing concrete for plain / reinforced concrete in open foundations complete as per drawings and MoRD specifications Clause 802, 803, 1202 & 1203. P.C.C grade M 10. Nominal mix 1:3:6.							
		Foundation	4.00	4.00	1.65	0.30	7.92		
		Under Floor	2.00	4.00	1.50	0.15	1.80		
		Total					9.72	19.44	Cum
3	R-8 / 2	Plain / reinforced cement concrete in substructure complete as per drawings and MoRD specification Clauses 802, 804, 805, 806, 807, 1202 and 1204. For height upto 5 m. P.C.C. grade M 20. Nominal mix (1:2:4).							
		Floor	2.00	4.00	1.50	0.10	1.20		
		Coping	2.00	2.70	0.30	0.10	0.16		
		Total					1.36	2.72	Cum

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4	R-8 / 12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MoRTH Specification : Clause 1000/1400].. 1st Course	4.00	4.00	1.35	0.30	6.48		
		2nd Course	4.00	4.00	1.33	2.00	42.56		
		Parapet	2.00	2.70	0.30	0.90	1.46		
						Total	50.50	101.00	Cum
5	R-8 / 18	Plastering with cement mortar (1:4), 20 mm thick on Stone work.	2.00	4.75	****	1.00	9.50		
		Parapet Wall	4.00	2.70	****	0.90	9.72		
						Total	19.22	38.44	Sqm
6	R-8 / 26	Reinforced cement concrete M-30 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated for reinforced concrete work in slab in superstructure at any level excluding steel reinforcement, but including centering and shuttering laid in position (MoRTH specification : clause 1000/1700).	2.00	2.70	4.00	0.45	9.72	19.44	Cum
7	R-8 / 6.2	Providing and fabricating Steel reinforcement for RCC works including cutting, bending, placing in position and binding complete including cost of binding wire. (MoRTH specification : Clause 1000/1600). HYSD bars	1153.00	****	****	****	1153.00	2306.00	Kg

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कानूनी अभियन्ता
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OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Stengthing and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
Part : F , RCC Culvert Type - 4 (1 No. 14)

S.No.	Code No.	Particular	No	L	W	H	Quantity	Unit
1	B-1/1.1.4	Earthwork in excavation for structures as per drawing and MoRD specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil. Upto 3 m depth. (2 Side X 4 Wall X 4.00 Long X 1.65 Wide X 1.60 Ht)	8.00	4.00	1.65	1.60	84.48	Cum
2	R-8/1.2.2(b)	Providing concrete for plain / reinforced concrete in open foundations complete as per drawings and MoRD specifications Clause 802, 803, 1202 & 1203. P.C.C grade M 10. Nominal mix 1:3:6.						
		Foundation	8.00	4.00	1.65	0.30	15.84	
		Under Floor	6.00	4.00	1.20	0.15	4.32	
		Total					20.16	Cum
3	R-8/2	Plain / reinforced cement concrete in substructure complete as per drawings and MoRD specification Clauses 802, 804, 805, 806, 807, 1202 and 1204. For height upto 5 m. P.C.C. grade M 20. Nominal mix (1:2:4).						
		Floor	6.00	4.00	1.20	0.10	2.88	
		Coping	2.00	5.70	0.30	0.10	0.34	
		Total					3.22	Cum
4	R-8/12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bd level. [MoRTH Specification : Clause 1000/1400]. 1st Course	8.00	4.00	1.35	0.30	12.96	
		2nd Course	8.00	4.00	1.33	2.00	85.12	
		Parapet	2.00	5.70	0.30	0.90	3.08	

अधिशायी अभियन्ता
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			Total					
5	R-8 / 18	Plastering with cement mortar (1:4). 20 mm thick on Stone work.	6.00	4.75	*****	1.00	28.50	Cum
		Parapet Wall	4.00	5.70	*****	0.90	20.52	
						Total	49.02	Sqm
6	R-8 / 26	Reinforced cement concrete M-30 mix with stone aggregate 20mm nominal size mechanically mixed and vibrated for reinforced concrete work in slab in upstructure at any level excluding steel reinforcement, but including centering and shuttering laid in position (MoRTH specification : clause 1000/1700).	2.00	5.70	4.00	0.30	13.68	Cum
7	R-8 / 6.2	Providing and fabricating Steel reinforcement for RCC works including cutting, bending, placing in position and binding complete including cost of binding wire. (MoRTH specification : Clause 1000/1600). HYSD bars	2435.00	*****	*****	*****	2435.00	Kg

सहायक अभियन्ता


(Signature)


कानून अभियन्ता
नगर विकास न्यास
चिन्नीडागढ


अधियासी अभियन्ता
नगर विकास न्यास
चिन्नीडागढ (रा.क.)

OFFICE OF THE URBAN IMPROVEMENT TRUST, CHITTORGARH
NAME OF WORK:- Widening, Strengthening and Recarpeting of road from Delhi Gate to manpura to gopalnagar upto Highway
- Part : G , Retaining Wall

S.N o.	Code No.	Particular	No	L	W	H	Quantity	Unit
1	B-1/ 1.1.4	Earthwork in excavation for structures as per drawing and MoRD specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material. Ordinary soil. Upto 3 m depth.	1.00	525.00	1.65	1.50	1299.38	Cum
2	R-8/ 1.2.2(b)	Providing concrete for plain / reinforced concrete in open foundations complete as per drawings and MoRD specifications Clause 802, 803, 1202 & 1203. P.C.C grade M 10. Nominal mix 1:3:6.	1.00	525.00	1.65	0.30	259.88	Cum
3	R-8 / 2	Plain / reinforced cement concrete in substructure complete as per drawings and MoRD specification Clauses 802, 804, 805, 806, 807, 1202 and 1204. For height upto 5 m. P.C.C. grade M 20 . Nominal mix (1:2:4).	1.00	525.00	0.30	0.10	15.75	Cum
4	R-8 / 12	Providing & laying Random Rubble Masonry (coursed) in cement sand mortar 1:3 in foundation up to a depth of 1.50m and also 1.50m above ground/bed level. [MoRTH Specification : Clause 1000/1400]. 1st Course	1.00	525.00	1.35	0.30	212.63	
		2nd Course	1.00	525.00	0.75	2.70	1063.13	
		Parapet	1.00	525.00	0.30	0.90	141.75	
		Total					1417.50	Cum
6	R-8 / 18	Plastering with cement mortar (1:4). 20 mm thick on Stone work.	1.00	525.00	****	2.70	1417.50	
		Parapet Wall	2.00	525.00	****	0.90	945.00	
		Total					2362.50	Sqm
8	B-13/ 16	Providing A.C. pipe Weep holes 150mm dia in Masonry/plain Concrete/Reinforced Concrete abutment, wing wall/return wall complete as per drawing and technical specification. [MoRTH Specification : Clause 2205].	1000.00	****	****	****	1000.00	Mtr


सहायक अभियन्ता
नगर विकास न्यास, चित्तौड़गढ़


अधिसापी अभियन्ता
नगर विकास न्यास
चित्तौड़गढ़ (राज.)


कनिष्ठ अभियन्ता
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चित्तौड़गढ़

Earth work Cutting Filling Detail (Calculated by Computer)

Station	Cut Area (Sqm.)	Cut Volume (Cum.)	Fill Area (Sqm.)	Fill Volume (Cum.)	Cum. Cut Vol. (Cum.)	Cum. Fill Vol. (Cum.)
0+025.000	381.77	0.00	0.00	0.00	0.00	0.00
0+050.000	6.54	120.00	0.00	0.00	120.00	0.00
0+075.000	3.78	128.91	0.13	1.62	248.91	1.62
0+100.000	3.95	96.90	0.01	1.75	345.81	3.36
0+125.000	3.85	98.30	0.10	1.38	444.11	4.75
0+150.000	4.48	104.10	0.00	1.26	548.21	6.01
0+175.000	5.01	117.29	0.00	0.00	665.50	6.01
0+200.000	3.62	107.54	0.00	0.00	773.04	6.01
0+225.000	4.89	106.16	0.00	0.00	879.20	6.01
0+250.000	7.93	159.90	0.00	0.00	1039.10	6.01
0+275.000	5.62	170.55	0.00	0.00	1209.65	6.01
0+300.000	5.23	135.50	0.00	0.00	1345.15	6.01
0+325.000	4.20	117.95	0.00	0.00	1463.10	6.01
0+350.000	4.93	114.13	0.00	0.00	1577.23	6.01
0+375.000	6.32	140.70	0.00	0.00	1717.93	6.01
0+400.000	4.80	139.29	0.00	0.00	1857.22	6.01
0+425.000	4.02	110.18	0.04	0.51	1967.40	6.52
0+450.000	3.83	98.22	0.00	0.52	2065.62	7.04
0+475.000	3.61	93.03	0.06	0.78	2158.65	7.81
0+500.000	3.92	94.17	0.00	0.76	2252.82	8.57
0+525.000	3.49	92.48	0.30	3.74	2345.30	12.32
0+550.000	4.39	98.58	0.00	3.73	2443.88	16.05
0+575.000	3.62	99.96	0.00	0.00	2543.84	16.05
0+600.000	2.90	81.67	0.81	10.12	2625.51	26.17
0+625.000	3.25	76.93	0.39	15.06	2702.44	41.24

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh, Rajasthan.

अधिसायी अभि. सा.
नगर विकास न्यास
चित्तौडगढ़ (राज.)

0+650.000	3.46	84.10	0.23	7.75	2786.54	48.99
0+675.000	4.40	98.69	0.00	2.85	2885.23	51.84
0+700.000	4.66	113.42	0.00	0.02	2998.65	51.86
0+725.000	3.17	97.93	1.06	13.30	3096.58	65.16
0+750.000	4.43	95.10	0.00	13.31	3191.68	78.47
0+775.000	4.15	107.13	0.00	0.00	3298.81	78.47
0+800.000	6.08	127.86	0.00	0.00	3426.67	78.47
0+825.000	4.28	129.55	0.11	1.35	3556.22	79.82
0+850.000	3.66	99.26	0.09	2.51	3655.48	82.32
0+875.000	5.43	113.64	0.00	1.17	3769.12	83.49
0+900.000	5.63	138.26	0.00	0.00	3907.38	83.49
0+925.000	4.46	126.18	0.00	0.00	4033.56	83.49
0+950.000	3.97	105.29	0.00	0.00	4138.85	83.49
0+975.000	3.94	98.85	0.00	0.00	4237.70	83.49
1+000.000	3.61	94.31	0.05	0.68	4332.01	84.17
1+025.000	9.70	166.00	0.00	0.68	4498.01	84.85
1+050.000	5.00	183.36	0.08	0.95	4681.37	85.80
1+075.000	3.69	108.30	0.12	2.46	4789.67	88.26
1+100.000	4.25	99.23	0.05	2.08	4888.90	90.34
1+125.000	4.15	105.31	0.05	1.21	4994.21	91.55
1+150.000	2.79	86.82	0.76	10.06	5081.03	101.61
1+175.000	3.99	84.94	0.58	16.66	5165.97	118.27
1+200.000	4.01	100.02	0.04	7.67	5265.99	125.95
1+225.000	2.19	77.35	2.76	34.99	5343.34	160.93
1+250.000	2.57	58.81	0.32	38.80	5402.15	199.73
1+275.000	1.97	56.68	0.28	7.56	5458.83	207.29
1+300.000	1.26	40.31	0.82	13.78	5499.14	221.07

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.

अधिशायी अभियन्ता
नगर विकास न्यास
चित्तौड़गढ़ (राज.)

1+325.000	7.05	103.71	0.00	10.25	5602.85	231.32
1+350.000	8.48	194.12	0.00	0.00	5796.97	231.32
1+375.000	8.21	208.66	0.00	0.00	6005.63	231.32
1+400.000	13.51	271.51	0.00	0.00	6277.14	231.32
1+425.000	6.47	249.73	0.00	0.00	6526.87	231.32
1+450.000	4.78	140.50	0.15	1.91	6667.37	233.24
1+475.000	3.50	103.55	0.27	5.23	6770.92	238.46
1+500.000	2.30	72.57	1.51	22.26	6843.49	260.73
1+525.000	2.05	54.44	1.42	36.67	6897.93	297.40
1+550.000	3.59	70.46	0.15	19.57	6968.39	316.96
1+575.000	2.85	80.43	0.98	14.11	7048.82	331.07
1+600.000	10.34	164.82	0.00	12.27	7213.64	343.34
1+625.000	5.05	191.28	0.00	0.00	7404.92	343.34
1+650.000	4.37	117.32	0.00	0.00	7522.24	343.34
1+675.000	5.74	125.93	0.00	0.00	7648.17	343.34
1+700.000	4.04	121.77	0.00	0.09	7769.94	343.44
1+725.000	4.01	100.49	0.00	0.09	7870.43	343.53
1+750.000	3.84	98.13	0.00	0.00	7968.56	343.53
1+775.000	3.99	97.54	0.13	1.69	8066.10	345.22
1+800.000	4.22	102.58	0.00	1.68	8168.68	346.90
1+825.000	4.67	110.19	0.00	0.00	8278.87	346.90
1+850.000	1.79	80.71	2.61	32.63	8359.58	379.53
1+875.000	0.35	26.75	5.03	95.55	8386.33	475.08
1+900.000	4.42	59.37	0.00	63.18	8445.70	538.26
1+925.000	6.05	130.28	0.00	0.00	8575.98	538.26
1+950.000	0.22	78.12	1.48	18.62	8654.10	556.88
1+975.000	4.11	54.12	0.34	22.83	8708.22	579.71

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.

अधिशायी अभियन्ता
नगर विकास म्यास
चित्तौडगढ (राज.)


2+000.000	3.29	92.00	0.33	8.42	8800.22	588.13
2+025.000	3.52	84.15	0.02	4.37	8884.37	592.50
2+050.000	3.06	81.46	0.25	3.46	8965.83	595.96
2+075.000	2.91	74.59	0.25	6.29	9040.42	602.25
2+100.000	3.63	81.70	0.00	3.21	9122.12	605.46
2+125.000	3.87	93.57	0.12	1.60	9215.69	607.06
2+150.000	6.46	129.19	0.00	1.52	9344.88	608.58
2+175.000	4.73	139.85	0.15	1.83	9484.73	610.41
2+200.000	3.67	104.94	0.47	7.75	9589.67	618.16
2+225.000	2.72	79.85	0.10	7.19	9669.52	625.35
2+250.000	2.53	65.59	1.08	14.72	9735.11	640.06
2+275.000	1.48	50.11	5.65	83.98	9785.22	724.04
2+300.000	1.45	36.54	2.17	97.78	9821.76	821.82
2+325.000	5.72	89.59	0.00	27.02	9911.35	848.84
2+350.000	4.69	130.15	0.00	0.00	10041.50	848.84
2+375.000	2.92	95.52	0.67	8.36	10137.02	857.20
2+400.000	2.38	66.64	0.93	19.97	10203.66	877.17
2+425.000	2.95	66.91	0.55	18.51	10270.57	895.67
2+450.000	3.44	79.95	0.23	9.79	10350.52	905.47
2+475.000	2.65	76.18	1.12	16.85	10426.70	922.32
2+500.000	2.36	62.70	0.93	25.56	10489.40	947.88
2+525.000	3.14	68.77	0.05	12.19	10558.17	960.07
2+550.000	0.67	47.65	3.80	48.12	10605.82	1008.19
2+575.000	2.61	40.93	0.66	55.71	10646.75	1063.90
2+600.000	2.16	59.66	1.55	27.64	10706.41	1091.54
2+625.000	2.52	58.19	1.16	33.96	10764.60	1125.50
2+650.000	2.75	65.87	0.64	22.55	10830.47	1148.05

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.

अभिजायी अभियन्ता
 विकास न्यास
 चित्तौडगढ (राज.)

2+675.000	2.90	70.60	0.59	15.43	10901.07	1163.48
2+700.000	2.54	67.95	1.16	21.87	10969.02	1185.34
2+725.000	3.31	73.03	0.02	14.70	11042.05	1200.04
2+750.000	3.28	82.39	0.14	1.91	11124.44	1201.95
2+775.000	2.26	69.30	0.67	10.08	11193.74	1212.04
2+800.000	3.27	69.13	0.16	10.41	11262.87	1222.45
2+825.000	3.23	81.26	0.25	5.16	11344.13	1227.61
2+850.000	3.14	79.67	0.39	7.97	11423.80	1235.58
2+875.000	4.03	89.61	0.00	4.85	11513.41	1240.42
2+900.000	3.34	92.03	0.17	2.15	11605.44	1242.57
2+925.000	3.66	87.48	0.05	2.76	11692.92	1245.33
2+950.000	2.79	80.60	0.62	8.37	11773.52	1253.70
2+975.000	2.93	71.67	0.89	18.83	11845.19	1272.53
3+000.000	1.21	51.76	2.75	45.50	11896.95	1318.03
3+025.000	3.40	57.65	0.00	34.45	11954.60	1352.48
3+050.000	3.31	83.88	0.00	0.14	12038.48	1352.62
3+075.000	3.37	83.44	0.08	1.09	12121.92	1353.72
3+100.000	3.92	91.05	0.00	1.02	12212.97	1354.73
3+125.000	3.43	91.80	0.00	0.00	12304.77	1354.73
3+150.000	1.47	61.26	2.30	28.77	12366.03	1383.50
3+175.000	2.05	44.06	1.60	48.80	12410.09	1432.30
3+200.000	3.53	69.71	0.00	20.03	12479.80	1452.33
3+225.000	1.23	59.41	2.64	32.98	12539.21	1485.31
3+250.000	2.06	41.09	0.85	43.59	12580.30	1528.90
3+275.000	7.81	123.39	0.00	10.62	12703.69	1539.52
3+300.000	2.13	124.28	1.40	17.53	12827.97	1557.06
3+325.000	0.83	36.99	3.10	56.25	12864.96	1613.31

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.


अधिसायी अभियन्ता
नगर विकास न्यास
चित्तौड़गढ़ (राज.)

3+350.000	0.91	21.76	3.00	76.23	12886.72	1689.54
3+375.000	5.76	83.31	0.00	37.51	12970.03	1727.05
3+400.000	2.51	103.37	0.09	1.14	13073.40	1728.19
3+425.000	2.37	60.99	1.27	17.02	13134.39	1745.21
3+450.000	3.68	75.51	0.05	16.48	13209.90	1761.69
3+475.000	4.32	99.73	0.03	0.98	13309.63	1762.67
3+500.000	4.37	108.58	0.00	0.38	13418.21	1763.06
3+525.000	3.16	94.20	0.78	9.71	13512.41	1772.76
3+550.000	3.40	82.04	0.07	10.60	13594.45	1783.37
3+575.000	4.77	102.16	0.00	0.89	13696.61	1784.26
3+600.000	6.86	145.53	0.00	0.00	13842.14	1784.26
3+625.000	4.96	147.83	0.00	0.00	13989.97	1784.26
3+650.000	3.95	111.36	0.00	0.00	14101.33	1784.26
3+675.000	4.62	107.15	0.00	0.00	14208.48	1784.26
3+700.000	4.81	117.98	0.00	0.00	14326.46	1784.26
3+725.000	5.38	127.42	0.00	0.00	14453.88	1784.26
3+750.000	5.32	133.69	0.00	0.00	14587.57	1784.26
3+775.000	3.84	114.48	0.31	3.84	14702.05	1788.10
3+800.000	3.85	96.19	0.03	4.26	14798.24	1792.36
3+825.000	4.34	102.45	0.00	0.42	14900.69	1792.78
3+850.000	2.57	86.36	1.12	13.97	14987.05	1806.75
3+875.000	2.72	66.05	0.64	21.98	15053.10	1828.73
3+900.000	3.78	81.24	0.00	8.01	15134.34	1836.74
3+925.000	1.61	67.43	2.05	25.67	15201.77	1862.42
3+950.000	2.62	52.86	0.28	29.15	15254.63	1891.57
3+975.000	4.14	84.39	0.00	3.49	15339.02	1895.05
4+000.000	4.07	102.63	0.00	0.00	15441.65	1895.05

Project Report For Widening, Strengthen And Re-Carpeting Of Road From Delhi Gate To Nh-79 Via Manpura / Gopal Nagar Chittorgarh , Rajasthan.

अधिसावी अभियन्ता
नगर विकास न्यास
चित्तौड़गढ़ (राज.)

अधिसावी अभियन्ता
नगर विकास न्यास
चित्तौड़गढ़ (राज.)

4+025.000	3.58	95.55	0.00	0.04	15537.20	1895.09
4+050.000	3.28	85.67	0.10	1.22	15622.87	1896.32
4+075.000	2.60	73.43	0.65	9.28	15696.30	1905.59
4+100.000	2.78	67.27	0.42	13.35	15763.57	1918.94
4+125.000	2.64	67.73	0.14	6.98	15831.30	1925.92
4+150.000	2.93	69.56	0.15	3.58	15900.86	1929.51
4+175.000	2.14	63.28	0.82	12.06	15964.14	1941.57
4+200.000	3.12	65.70	0.30	13.93	16029.84	1955.50
4+225.000	3.38	81.23	0.11	5.07	16111.07	1960.56
4+250.000	3.71	88.63	0.04	1.86	16199.70	1962.42
4+275.000	7.69	142.58	0.00	0.52	16342.28	1962.94
4+300.000	2.24	124.17	1.49	18.66	16466.45	1981.60
4+325.000	2.42	58.23	0.75	28.02	16524.68	2009.62
4+350.000	2.88	66.22	0.44	14.91	16590.90	2024.53
4+375.000	3.46	79.23	0.00	5.56	16670.13	2030.09
4+400.000	3.32	84.73	0.00	0.00	16754.86	2030.09
4+425.000	3.06	79.64	0.02	0.30	16834.50	2030.39
4+450.000	4.31	92.09	0.00	0.30	16926.59	2030.68
4+475.000	2.91	90.24	0.18	2.20	17016.83	2032.89
4+500.000	1.31	52.76	2.50	33.45	17069.59	2066.34
4+525.000	3.49	60.02	0.20	33.75	17129.61	2100.09
4+550.000	3.28	84.66	0.05	3.16	17214.27	2103.26
4+575.000	3.06	79.22	0.05	1.36	17293.49	2104.61
4+600.000	3.23	78.60	0.12	2.22	17372.09	2106.84
4+625.000	3.18	80.01	0.18	3.84	17452.10	2110.68
4+650.000	3.47	83.05	0.01	2.42	17535.15	2113.10
4+675.000	3.32	84.89	0.06	0.90	17620.04	2114.00

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अधिसूचना अधिसूचना
नगरपालिका कार्यालय
चित्तौड़गढ़ (राजस्थान)


4+700.000	2.79	76.45	0.52	7.33	17696.49	2121.32
4+725.000	3.13	74.09	0.24	9.52	17770.58	2130.84
4+750.000	3.11	78.03	0.31	6.84	17848.61	2137.68
4+775.000	2.73	72.92	0.96	15.88	17921.53	2153.56
4+800.000	3.76	81.13	0.00	12.01	18002.66	2165.57
4+825.000	2.78	81.82	0.73	9.08	18084.48	2174.65
4+850.000	4.65	92.80	0.00	9.07	18177.28	2183.73
4+875.000	4.66	116.37	0.00	0.00	18293.65	2183.73
4+900.000	4.05	108.85	0.00	0.00	18402.50	2183.73
4+925.000	5.75	122.44	0.11	1.40	18524.94	2185.13
4+950.000	10.20	199.43	0.00	1.40	18724.37	2186.53
4+975.000	4.20	180.00	0.00	0.00	18904.37	2186.53
5+000.000	3.24	93.01	0.14	1.69	18997.38	2188.22
5+025.000	3.43	83.36	0.01	1.87	19080.74	2190.09
5+050.000	3.23	83.18	0.00	0.20	19163.92	2190.29
5+075.000	2.87	76.21	0.31	3.87	19240.13	2194.17
5+100.000	2.39	65.59	0.57	10.97	19305.72	2205.14
5+125.000	2.37	59.74	0.12	8.60	19365.46	2213.74
5+150.000	2.45	60.26	0.00	1.53	19425.72	2215.27
5+175.000	0.00	30.57	6.26	78.21	19456.29	2293.48
5+200.000	0.66	8.21	3.93	127.28	19464.50	2420.76
5+225.000	0.00	8.21	9.26	164.78	19472.71	2585.54
5+250.000	0.56	7.04	5.30	182.00	19479.75	2767.54
5+275.000	0.03	7.30	3.55	110.95	19487.05	2878.49
5+300.000	0.24	3.35	3.94	93.62	19490.40	2972.11
5+325.000	2.38	32.61	0.67	57.55	19523.01	3029.66
5+350.000	0.10	31.03	5.03	71.21	19554.04	3100.87

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नगर विकास न्यास
चित्तौड़गढ़ (राज.)

5+375.000	2.54	33.01	0.00	62.79	19587.05	3163.66
5+400.000	3.16	71.30	0.25	3.10	19658.35	3166.76
5+425.000	3.18	79.27	0.93	14.72	19737.62	3181.49
5+450.000	5.77	111.17	0.00	11.58	19848.79	3193.07
5+475.000	3.10	109.66	0.04	0.45	19958.45	3193.51
5+500.000	4.07	89.63	0.03	0.80	20048.08	3194.32
5+525.000	2.74	85.11	1.00	12.83	20133.19	3207.15
5+550.000	2.84	69.73	0.06	13.22	20202.92	3220.37
5+575.000	0.99	47.95	2.92	37.25	20250.87	3257.63
5+600.000	1.72	33.94	1.02	49.20	20284.81	3306.83
5+625.000	2.29	50.84	0.16	14.40	20335.65	3321.23
5+650.000	2.67	62.07	0.03	2.34	20397.72	3323.57
5+675.000	2.76	67.84	0.54	7.09	20465.56	3330.66
5+700.000	3.40	76.93	0.00	6.71	20542.49	3337.38
5+725.000	2.93	79.16	0.56	6.99	20621.65	3344.37
5+750.000	0.26	39.91	6.72	91.29	20661.56	3435.66
5+775.000	2.92	39.77	0.23	86.89	20701.33	3522.55
5+800.000	1.95	60.24	1.43	20.83	20761.57	3543.38
5+825.000	2.80	59.24	0.68	26.34	20820.81	3569.72
5+850.000	1.82	57.67	1.81	31.04	20878.48	3600.76
5+875.000	3.36	64.70	0.00	22.66	20943.18	3623.42
5+900.000	3.14	81.32	0.00	0.09	21024.50	3623.51
5+925.000	3.35	81.10	0.27	3.45	21105.60	3626.96
5+950.000	3.11	80.71	0.14	5.18	21186.31	3632.14
5+975.000	3.03	76.69	0.65	9.82	21263.00	3641.97
6+000.000	3.02	75.61	0.38	12.86	21338.61	3654.83
6+025.000	8.90	149.00	0.00	4.78	21487.61	3659.61

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6+050.000	3.25	151.89	0.00	0.04	21639.50	3659.65
6+075.000	2.70	74.42	0.85	10.70	21713.92	3670.35
6+100.000	2.56	66.09	0.41	15.77	21780.01	3686.12
6+125.000	3.48	75.93	0.06	5.89	21855.94	3692.01
6+150.000	2.91	79.96	0.68	9.29	21935.90	3701.30
6+175.000	4.40	91.38	0.00	8.50	22027.28	3709.80
6+200.000	4.24	108.05	0.00	0.00	22135.33	3709.80


 अधिशाषी अभियन्ता
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