

<b>Road From - Ghamapur Chowk to Municipal Limit Ranjhi, Distt. Jabalpur</b>		
<b>Length of the Road = 4.700 KM.</b>		
<b>Abstract Estimate</b>		
<b>S.No.</b>	<b>Description of Item</b>	<b>Cost Rs.</b>
<b>1</b>	Details Estimate of Road	99947737
<b>2</b>	Details Estimate of Drain	82887861
<b>3</b>	Details Estimate of NMT	27054037
<b>4</b>	Detailed Estimate of Widening of Minor Bridge (.....) 10 no.	30725251
<b>5</b>	Detailed Estimate of utility shifting like ofc cables, pipe shifting etc.Lumpsum	20000000
<b>6</b>	Detailed Estimate of saddle for pipeline.	2737597
	<b>Total</b>	<b>263352482</b>
	<b>Say in Lacs Rs.</b>	<b>2633.52</b>

## **Road From - Ghamapur Chowk to Municipal Limit Ranjhi, Distt. Jabalpur**

**Total Length-Ghamapur Chowk to Chungi Chowky = 2000m**

**Total Length- Gokalpur to Municipal Limit = 2700m**

**Length of the Road = 4700 m**

### **Existing-**

- 1 ROW as per Master Plan = 24.00m
- 2 Carriageway -
  - (i) Ghamapur Chowk to Chungi Chowky - 9.8 m
  - (ii) Gokalpur to Municipal Limit - 8.6 m
- 3 Widening of road on either side
- 4 No. of Small Bridges & Culvert - 10
- 5 Electric Pole - Not Included in this project but it will executed on PPP Mode in other project
- 6 For Bridges & Culverts, Geotech Investigation is required for each crossing. Therefore, a tentative estimate is prepared for these crossing.
- 7 Utility Shifting - (i) Electric poles - Estimate of this item will be executed in other project  
(ii) Water pipe line - 100mm to 450mm dia pipes are laid beneath the Road. Some of them are burried in the carriageway also. So it is excatly not known which pipes will be shifted during construction. Therefore a Lumpsum amount of 1.5 Crores is taken in the estimate for this purpose.

### **Provision -**

- 1 Proposed Carriageway (without divider) - 14m., widening width
- 2 Crust Components (Widening Portion)
  - (i) Subgrade - 500mm. Average
  - (ii) Subbase (CRM) - 330mm.
  - (iii) Base (WMM) - 250mm.
  - (iv) DBM - 80mm.
  - (v) BC - 40mm.
  - (vi) Profile Corrective Course (Total Quantity DBM 5.0%)
- 3 Number of CD's work - 10 Nos. (Total)
- 4 Widening is proposed for Culverts & Bridges
- 5 RCC Drain - Either side - Size 1000x1000mm.
- 6 NMT - 3.0 m. on either side,
- 7 Railing - 1.2m high MS rialing to separate Main Carriageway and Pathway.
- 8 R.C.C. NP2 Hume Pipe for Service duct of 300mm Dia near bridges across the road.

## Detailed Estimate of Road

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement					Rate	Unit	Amount
			No.	L	B	H	Quantity			
<b>1</b>	<b>3.1, Vol III</b>	<b>Excavation</b>								
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres and as per relevant clauses of section-300								
		<b>For Proposed of Road</b>				Av.				
		Ghamapur Chowk to Chungi Chowky	2.00	2000.00	2.100	1.060	8904.00			
		Gokalpur to Municipal Limit	2.00	2700.00	2.700	1.060	15454.80			
		Total					24358.80	88.20	cum	2148446
<b>4</b>	<b>3.11 Vol III</b>	<b>Embankment Sub grade</b>								
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less than 7% i/c all lead & lifts i/c excavation, cost of watering, compaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.								
		<b>For Proposed of Road</b>								
		Ghamapur Chowk to Chungi Chowky	2.00	2000.00	2.100	0.50	4200.00			
		Gokalpur to Municipal Limit	2.00	2700.00	2.700	0.50	7290.00			
		Total					11490.00	244.80	cum	2812752
<b>6</b>	<b>4.8 Vol III</b>	<b>Crusher Run Macadam Base</b>								
		Crusher Run Macadam Base (Providing crushed stone aggregate, depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a vibratory roller to clause 410 to form a layer of sub-base/Base)								
		i) For 53 mm maximum size								
		Ghamapur Chowk to Chungi Chowky	2.00	2000.00	2.100	0.330	2772			
		Gokalpur to Municipal Limit	2.00	2700.00	2.700	0.330	4811			
		Total					7583	749.70	cum	5685275

## Detailed Estimate of Road

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement					Rate	Unit	Amount
			No.	L	B	H	Quantity			
7	4.5 Vol III	<b>WMM</b> Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub - base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density and as per relevant clauses of section - 400.								
					AV.					
		Ghamapur Chowk to Chungi Chowky	2.00	2000	2.10	0.250	2100			
		Gokalpur to Municipal Limit	2.00	2700	2.70	0.250	3645			
		Total quantity					5745	855.90	cum	4917146
8	5.4 Vol III	<b>Profile Corrective Course</b> Providing and laying levelling course/profile corrective course with bituminous macadam with hot mix plant using crushed aggregates of grading-1 premixed with bituminous binder @ 3.1%, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction complete in all respects and as per relevant clauses of section-500.								
		<b>Profile Corrective Course (Total Quantity DBM 5.0%)</b>			AV.					
		Ghamapur Chowk to Chungi Chowky	1.00	2240X5% =			112			
		Gokalpur to Municipal Limit	1.00	3024X5% =			151			
		Total quantity					263	4856.40	cum	1278204
9	5.1 Vol III	<b>Primer Coat</b> Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502.								
		Ghamapur Chowk to Chungi Chowky	2.00	2000	2.10		8400			
		Gokalpur to Municipal Limit	2.00	2700	2.70		14580			
		Total quantity					22980	23.40	Sqm	537732

## Detailed Estimate of Road

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement					Rate	Unit	Amount
			No.	L	B	H	Quantity			
10	5.2 (i) Vol III	<b>Tack Coat</b> Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous / granular surface cleaned with mechanical broom and as per relevant clauses of section 503. @0.25 kg per sqm ....								
		Ghamapur Chowk to Chungi Chowky	1.0	2000	14.0		28000			
		Gokalpur to Municipal Limit	1.0	2700	14.0		37800			
		<b>Profile Corrective Course (Total Quantity Tack Coat- 5.0%)</b>								
		Ghamapur Chowk to Chungi Chowky	1.0	28000X5.0% =			1400			
		Gokalpur to Municipal Limit	1.0	37800X5.0% =			1890			
		Total quantity					69090	0.90	sqm	62181
11	5.6 (ii) Vol III	<b>Dense Bituminous Macadam</b> Providing and laying dense bituminous macadam with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects and as per relevant clauses of section-507. (Only cement will be used as filler) for Grading I ( 80-100mm thickness )								
		Ghamapur Chowk to Chungi Chowky	2.00	2000	7.00	0.080	2240.0			
		Gokalpur to Municipal Limit	2.00	2700	7.00	0.080	3024.0			
		Total quantity					5264.0	6444.90	cum	33925954
12	5.8 (iv) Vol III	<b>Bituminous Concrete</b> Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous binder,transporting the hot mix to work site,laying with a mechanical paver finisher to the required grade,level and alignment,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects and as per relevant clauses of section-509.(Only cement will be used as filler).								
		iv) for Grading II ( 30-45 mm thickness ) with 60/70 bitumen	1.00	2000	14.00	0.040	1120.0			
			1.00	2700	14.00	0.040	1512.0			
		Total quantity					2632.0	8226.0	cum	21650832

## Detailed Estimate of Road

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement					Rate	Unit	Amount
			No.	L	B	H	Quantity			
<b>13</b>	<b>24.3 Vol II</b>	<b>Non-Pressure NP2 For Service Duct</b>								
		Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete								
	<b>24.3.4</b>	300 mm dia. R.C.C. pipe Non-Pressure NP2 Total Length= 2x950 =1900m	18x11	2.5			275.00	437.40	RM	120285
<b>14</b>	<b>8.10 Vol III</b>	<b>Road Marking</b>								
		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applie thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250gms 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 and as per relevant clauses of section-800. a) Height upto 5m								
		Ghamapur Chowk to Chungi Chowky	5.00	2000.00	0.10		600.00			
		Gokalpur to Municipal Limit	5.00	2700.00	0.10		810.00			
		Total					1410.00	810.00	Sqm	1142100
<b>15</b>	<b>8.8 Vol III</b>	<b>Painting lines, dashes, arrows etc</b>								
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, arcation at site and traffic control as per relevant clauses of section-800 & I.R.C.-67 including cost of paint etc. complete.								
		Ghamapur Chowk to Chungi Chowky	1	2000.00	0.100		200.00			
		Gokalpur to Municipal Limit	1	2700.00	0.100		270.00			
		Total					200.00	63.00	Sqm	12600







2.30 1.95









## Road From - Ghamapur Chowk to Municipal Limit Ranjhi, Distt. Jabalpur

Length of the Road = 4.700 KM.

### Provision -

Drain, internal dimension 1000 mm wide x 1000 mm deep in Both Side,

### Detailed Estimate of Drain

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement				Rate	Unit	Amount	
			No.	L	B	H				Quantity
<b>1</b>	<b>2.8, Vol II</b>	<b>Excavation for Drain</b>								
		Earth work in excavation by mechanical means ....drains (not exceeding 1.5 m in width or 10 sqm ..... excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil								
		Total Excavation Drain,	2.00	4700.00	1.800	1.400	23688			
		Green Strip Wall	2.00	4700.00	0.300	0.750	2115			
		<b>Total</b>					<b>23688</b>	116.10	cum	2750177
<b>2</b>	<b>2.27 Vol II</b>	<b>Crusher Stone Dust Filling For Drain</b>								
		Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.								
		Dust Filling of Drain 1000x1000	2.00	4700.00	1.800	0.100	1692.00			
		Green Strip Wall	2.00	4700.00	0.300	0.100	282.00			
		<b>Total</b>					1692.00	565.20	cum	956318
<b>3</b>	<b>4.1.5 Vol II</b>	<b>Cement Concrete M-10 for Base of Drain</b>								
		Providing and laying in position cement concrete .... Up to plinth level. 4.1.5 Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate								
		Drain base1000x1000mm	2.00	4700.00	1.600	0.100	1504.00			
		Green Strip Wall	2.00	4700.00	0.200	0.100	188.00			
		<b>Total</b>					1692.00	3175.20	cum	5372438

Detailed Estimate of Drain										
S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement				Rate	Unit	Amount	
			No.	L	B	H				Quantity
4	5.1.1 Vol II	<b>Cement Concrete M-20 Drain</b>								
		Providing and laying Plain / Reinforced cement concrete (mixed in concrete mixture) ... RCC Grade M20 with 20mm maximum size of aggregate.								
		<b>Drain</b>								
		R.C.C. Drain Base,1000x1000mm	2.00	4700.00	1.40	0.20	2632.00			
		R.C.C. Wall	4.00	4700.00	0.20	1.00	3760.00			
		<b>Green Strip Wall</b>								
		R.C.C. Base	2.00	4700.00	0.30	0.10	282.00			
		R.C.C. Wall	2.00	4700.00	0.10	0.55	517.00			
		Drain Top wall Extra	2.00	4700.00	0.10	0.45	423.00			
		Precast Slab Drain	2.00	4700.00	1.20	0.20	2256.00			
		Total quantity of M20					9870	4255.20	cum	41998824
5	5.20.6 Vol II	<b>Reinforcement for Drain</b>								
		Reinforcement for R.C.C. work including								
		<b>Steel required for drain walls and base</b>								
		As per X-section shown								
		<b>Footing Drain 1000x1000mm</b>								
		Main Bar 10mm dia 200c/c Both Side	2x23500	1.60	75200	0.617	46398			
		Distribution bar 8mm dia 200c/c	2x8	4700.00	376000	0.395	148520			
		<b>Drain Wall</b>								
		Main Bar 10mm dia 200c/c Both Side	2x2x23500	1.60	150400	0.617	92797			
		Distribution bar 8mm dia 200c/c	2x2x6	4700.00	112800	0.395	44556			
		<b>Green Strip Wall</b>								
		Main Bar 10mm dia 200c/c Both Side	2x23500	0.70	32900	0.395	12996			
		Distribution bar 8mm dia 200c/c	2x4	4700.00	37600	0.395	14852			
		<b>Steel required for precast cover</b>								
		Main Bar 10mm dia 150c/c	2x31310	1.20	75144	0.617	46364			
		Distribution bar for cover 8 mm dia 200c/c	2x7	4700.00	65800	0.395	25991			
		Total quantity					432474	54.00	Kg	23353572

Detailed Estimate of Drain										
S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement					Rate	Unit	Amount
			No.	L	B	H	Quantity			
6	20.1.1 Vol II	Form work for Drain								
		Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete.								
		<b>Drain 1000x1000mm</b>								
		R.C.C. wall outer	4	4700.00	1.00		18800.0			
		R.C.C. wall inner	4	4700.00	1.00		18800.0			
		R.C.C. Footing	2	4700.00	0.20		1880.00			
		Drain Top wall Extra	4	4700.00	0.45		8460.00			
		Green Strip Wall	4	4700.00	0.75		14100.0			
		Precast Slab sides Drain	2	4700.00	0.20		1880.00			
		Precast Slab sides Duct	2	4700.00	0.20		1880.00			
		Total quantity					65800	124	cum	8172360
7	14.8 Vol III	PVC Pipe/Weep holes in Drain								
		Providing PVC Pipe in Brick masonry / Plain / Reinforced concrete abutment, .. as per clause 2706 of specifications.								
		Drain	2.00	4700.00	0.200		1880.00	117.90	RMT	221652
8	8.26 Vol III	Manhole Cover & Frame								
		Providing & fixing in position precise Reinforced Cement Concrete manhole covers with and without frames confirming to IS-12592(Part I&II) 1991.								
		<b>8.26.1.6 600 mm dia heavy duty cover with frame</b>								
		CH. 0 to 4700 m = 4700m	1.00	47.00			47	1330.20	No	62519
<b>Grand Total</b>										<b>82887861</b>
<b>Per R/M Cast = 128374272/9400 = 13657</b>										<b>8288</b>

82887860.59 9400.00 8817.86

13656.84



**#REF!**

Total Length-Ghamapur Chowk to Chungi Chowky = 2000m

Total Length- Gokalpur to Municipal Limit = 2700m

Length of the Road = 4700 m

**Detailed Estimate of Civil Work of Saddles**

S.No.	GADD SOR Vol II & III, ITEM NO.	Descriptions of Item	Measurement					Rate	Unit	Amount
			No.	L	B	H	Quantity			
<b>1</b>	<b>15.1 Vol I</b>	<b>Earthwork for Saddles</b> Earth work in Excavation for pipe trench in all kinds of soil and WBM in areas including dressing, watering and ramming and disposal of Excavated earth lead upto 50 meters and lift upto 1.5m, disposal earth to be leveled, neatly dressed.								
		Soil	1.00	1.50	0.600	0.500	0.45			
		<b>Total</b>					<b>0.45</b>	116.19	Cum	<b>52.3</b>
<b>2</b>	<b>15.3 Vol I</b>	<b>Earthwork for Saddles</b> Earth work in excavation for pipe trench in all kinds of rocks in areas including dressing, stacking of useful material and disposal of unserviceable one upto 50 m lead and lift upto 1.5 m. As per volume sheets attached								
		<b>(a) Soft rock with or without blasting</b> <b>C/W Rising Main</b>			<b>AV.</b>					
			1.00	1.50	0.600	0.500	0.45			
		<b>Total</b>					<b>0.45</b>	185.40	Cum	<b>83.4</b>
<b>3</b>	<b>11.4</b>	<b>M10 Base for Saddles</b> Providing Plain cement concrete M-10 nominal mix in foundation as per relevant clauses of sections 1500, 1700 and 2100.								
			1	1.20	0.600	0.100	0.07	3753.90	cum	270
<b>4</b>	<b>11.8</b>	<b>Item Reinforcement for Saddles</b> Supply, Fitting and placing uncoated mild steel .....section 1600.								
		Footing 8 mm#bar @150 mm c/c	10X2	1.20	24.000	0.395	9.48			
		Ring 8 mm#bar @150 mm c/c	18	2.40	43.200	0.395	17.06			
		Main Bar 10 mm# 6No.	6	3.80	22.800	0.617	14.07			
		<b>Total</b>					<b>40.61</b>	54.00	Kg	2193
<b>5</b>	<b>11.4 (IV)</b>	<b>M - 20 Saddles</b> Providing and laying Plain/Reinforced cement concrete in open foundation including form work shuttering ..... clauses of sections 1500, 1700 & 2100 with RCC Grade M20 with 20 mm down graded								
		Footing (i)	1	1.00	0.500	0.150	0.08			
		(ii) Trapezoidal Footing	1	1.00	0.500	0.250	0.13			
		Saddles	1	1.00	0.500	3.500	3.10			
		<b>Total</b>					<b>3.30</b>	4338.00	cum	14315

**Detailed Estimate of Civil Work of Saddles**

S.No.	GADD SOR Vol II & III, ITEM NO.	Descriptions of Item	Measurement					Rate	Unit	Amount
			No.	L	B	H	Quantity			
6	10.25 Vol.2	<b>PIPE Clamp (Steel)</b> Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.								
	10.25.3	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.								
		Flats 5mm Th. & Width 20mm	1.00	1.00	1.000	0.785	0.79	60.30	Kg	37
7	9.108 Vol II	<b>PTMT Tower Bolts</b> Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc.,								
	9.11	<b>152x42x18 mm weighing not less than 60 gms.</b>	2.00				2.00	79.20	Each	158
<b>Total Cost</b>										<b>17110</b>
<b>Total 10X2X8 = 160 No. =</b>										<b>2737597</b>





	<b>Vol III</b>	Providing and laying dense bituminous macadam with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects and as per relevant clauses of section-507. (Only cement will be used as filler) for Grading I ( 80-100mm thickness )							
		Ghamapur Chowk to Chungi Chowky	2.00	2000	3.00	0.050	600.0		
		Gokalpur to Municipal Limit	2.00	2700	3.00	0.050	810.0		
		Total quantity					1410.0	7089.39	cum 9996040
<b>8</b>	<b>5.8 (iv) Vol III</b>	<b>Bituminous Concrete</b> Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous binder,transporting the hot mix to work site,laying with a mechanical paver finisher to the required grade,level and alignment,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects and as per relevant clauses of section-509.(Only cement will be used as filler).							
		iv) for Grading II ( 30-45 mm thickness ) with 60/70 bitumen	2.00	2000	3.00	0.025	300.0		
			2.00	2700	3.00	0.025	405.0		
		Total quantity					705.0	8143.7	cum 5741337
							<b>Total</b>		<b>27054037</b>

# Road From - Ghamapur Chowk to Municipal Limit Ranjhi, District Jabalpur

Length of the Road = 4.700 KM.

Tentative widening 3.60m on either side

This estimate is Tentative ,since geotechnical investigation is yet to perform. Actual estimate will be as per Soil or geotechnical investigation. The Contractor of work will perform these test and will prepare Design, Drawings, Estimate and will have got to approve from competent authority as directed by client.

## Detailed Estimate of Widening of Minor Bridge

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Measurement				Rate	Unit
			No.	L	B	H		
1	Vol III, 13.1 i, Pg 87	<b>Excavation</b>						
		Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material etc. and as per relevant clauses of section 300 & 2100 in						
		Peir	2*3=6	3.6	2.4	1.900	98.50	
		Abutment	2*2=4	3.6	3.55	1.900	97.13	
		Total				195.62	122.40 cum	
2	Vol III, 14.9 Pg 99	<b>Granular Material</b>						
		Providing Back filling behind abutment, wing wall & return wall with Granular Material complete as per drawing and Technical specification and as per relevant clauses 305 of specifications & as per appendix 6 of IRC-78						
		Peir	2*3=6	3.6	2.4	0.300	15.55	
		Abutment	2*2=4	3.6	3.55	0.300	15.34	
		Total				30.89	476.10 cum	
3	Vol III, 13.6 a	<b>Cement Concrete M-15 for Widening Minor Bridge</b>						



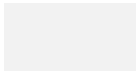
	<b>15.4 Pg 105</b>	Providing and laying Cement concrete (mixed in concrete mixture) wearing coat M-30 grade including reinforcement complete as per drawing and Technical Specifications and as per relevant clauses of sections 1500, 1700 and Clause 2702 of specifications..							
		Wearing Coat	2	3	24	0.075	10.80		
		Total					10.80	7491.60	cum
<b>7</b>	<b>Vol III, 15.19 Pag 107</b>	<b>Expansion Joint</b> Providing and laying of a modular strip Box steel expansion joint including anchorage catering to a horizontal movement beyond 70 mm and upto 140mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation and as per relevant clauses of section 2600.							
		peir Slab	1			35.000	35.00		
		Total					35.00	13928	cum
<b>8</b>	<b>Vol III, 14.8 Pg 99</b>	<b>Weep Holes</b> Providing weep holes in Brick masonry/Plain/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 face. Complete as per drawing and Technical specifications and as per clause 2706 of specifications.							
		Weep Holes	1			125	125.00		
		Total					125.00	117.90	cum
<b>9</b>	<b>Vol III, 15.8 Pag 105</b>	<b>Steel Railing</b> Providing, fitting and fixing mild steel railing complete as per standard drawing No.BD/1-88 and Technical Specification and as per relevant clauses of section 1900 and 2700.							
		Steel Railing	1			98.250	98.25		
		Total					98.25	2272.50	cum
<b>10</b>	<b>Vol III,</b>	<b>HYSD Bar For foundation</b>							



	<b>13.26 Pg 91</b>	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and technical specifications and as per relevant clauses of sections 1600.							
		10 mm dia @ 200 mm c/c both side (Bar)							
		Peir footing Top & bottom	2x2x3	19	2.7	0.617	379.83		
			2x2x3	13	3.9	0.617	375.38		
		Abutment footing Top & bottom	2x2x2	19	3.85	0.617	361.07		
			2x2x2	19	3.9	0.617	365.76		
		Total weight in Kg					1482.03		KG
		Total					1.48	51295	MT
		<b>Steel For Sub Structure</b>							
<b>11</b>	<b>Vol III, 14.6</b>	<b>STEEL (HYSD Bar Reinforcement)</b>							
		Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and technical specifications and as per relevant clauses of sections 1600.							
		8 mm dia @ 200 mm temperature Reinforcement							
		<b>Peir</b>	2x2x3	16	5	0.395	379.20		
			2x2x3	7	5	0.395	165.90		
		<b>Abutment</b>	2x2x2	16	5	0.395	252.80		
			2x2x2	18	5	0.395	284.40		
		12 mm dia @ 150 mm C/c							
		Peir bed block	2x3	24	3.8	0.888	485.91		
		12 mm dia @ 200 mm C/c							
		<b>Ring</b>	2x3	24	3.8	0.888	485.91		
		12 mm dia @ 150 mm C/c							
		Abutment	2x2	16	3.8	0.888	215.96		
		Ring	2x2	16	3.8	0.888	215.96		
		<b>DIRT WALL</b>							
		Top Bars 2 No. 20 mm dia	2x2	2	3.15	2.469	62.22		
		Bottom Bars 8 No. 16mm dia	2x2	8	3.15	1.580	159.26		
		Stirrups 10 mm dia @ 150 mm c/c	2x2	21	2.7	0.617	139.94		
		Total weight in Kg					2847		KG
		Total					2.85	51377.40	MT
<b>12</b>	<b>Vol III, 15.2 Pg 104</b>	<b>Steel for Super Structure</b>							
		<b>SLAB</b>							
		Top 10 mm dia @ 300 mm c/c	2	80	4.5	0.617	444.24		
			2	11	25.5	0.617	346.14		
		Bottom 12 mm dia @ 120 mm c/c	2	201	4.5	0.888	1606.39		
			2	26	25.5	0.888	1177.49		

	<b>Extra Bent up bars</b>						
	25 mm dia @ 130 mm c/c	2	24	24	3.858	4444.42	
	<b>End Extra bars</b>						
	25 mm dia @ 130 mm c/c	2x2	24	0.8	3.858	296.29	
	<b>Total weight in Kg</b>					8315	KG
	Total					8.31	51998 MT
<b>Total Amount</b>							
<b>10 No. Minor Bridge - 3413932x10 =</b>							

**stt.**



**result of  
rawing &**

<b>Amount</b>

23944
14706

85409
935784
551601

80909
487480
14738
223273

76020
146296

51377.40 5137.74 46239.66

0.00

432365
3072525
<b>30725251</b>

51998.40	5199.84
	46798.56