ABSTRACT OF COST

| S.NO | ROAD | LENGTH | AMOUNT |
|------|--|-------------|--------------|
| | ROAD FROM STRECH SATKAR HOTEL TO HOME SCIENCE ROAD & | | |
| 1 | TEEN PATTI CHOWK TO GOUMATA CHOWK | 1470 METERS | 96606140.45 |
| | ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL | | |
| 2 | POLICE STATION | 1051 METERS | 91528383.83 |
| | ROAD STRECH FROM MADAN MAHAL POLICE STATION TO | | |
| 3 | RANITAAL JUNCTION | 1132 METERS | 86701557.53 |
| 2 | ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH | 860 METERS | 71947443.39 |
| | ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (| | |
| 5 | HANUMAN MANDIR) | 824 METERS | 66000787.46 |
| | TOTAL | | 412784312.65 |

| | ROAD FROM STRECH SATKAR HOTEL TO HO TEEN PATTI CHOWK TO GOUMA | |
|-----------------------|---|--|
| | LENGTH 1470 METER | |
| | SUMMARY SHEET | 5 |
| Sr No. | Item Description | Amount (In Rs.) |
| <u> </u> | ROAD | 17934482.64 |
| 2 | | 52945473.61 |
| 3 | STORM WATER DRAIN | 12668128.20 |
| | PEDESTARIAN TRACK | 11357481.00 |
| <u>4</u> 5 | | |
| 5 | SIGNAGES, MARKING, LANDSCAPING | 1700575.00 |
| | TOTAL | 96606140.45 |
| | ROAD STRECH FROM BLOOM CHOWK TO MADA LENGTH - 1051 METER | |
| | SUMMARY SHEET | |
| Sr No. | Item Description | Amount (In Rs.) |
| 1 | ROAD | 28932102.99 |
| 2 | | 42531931.24 |
| 3 | STORM WATER DRAIN | 10742362.01 |
| 4 | PEDESTARIAN TRACK | 8097362.60 |
| 5 | SIGNAGES, MARKING, LANDSCAPING | 1224625.00 |
| | TOTAL | 91528383.83 |
| Sr No | SUMMARY SHEET | Amount (In Do.) |
| Sr No. 1 | Item Description ROAD | Amount (In Rs.) |
| - | | 25526550.04 |
| 2 | | 42222037.09 |
| 3 | STORM WATER DRAIN | 9867014.20 |
| 4 | PEDESTARIAN TRACK | |
| 5 | | |
| | SIGNAGES, MARKING, LANDSCAPING | 1378780.00 |
| | TOTAL | 1378780.00 |
| | TOTAL ROAD STRECH FROM RANITAAL JUNCTIO | 1378780.00 86701557.53 |
| | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET | 1378780.00 86701557.53 ON TO BALDEOBAGH |
| Sr No. | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description | 1378780.00 86701557.53 DN TO BALDEOBAGH Amount (In Rs.) |
| 1 | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description ROAD | 1378780.00 86701557.53 ON TO BALDEOBAGH Amount (In Rs.) 25715026.02 |
| 1 2 | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description ROAD UTILITY DUCT | 1378780.00 86701557.53 DN TO BALDEOBAGH Amount (In Rs.) 25715026.02 30163498.57 |
| 1 2 3 | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description ROAD UTILITY DUCT STORM WATER DRAIN | 1378780.00 86701557.53 ON TO BALDEOBAGH Amount (In Rs.) 25715026.02 30163498.57 8082073.80 |
| 1 2 3 4 | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description ROAD UTILITY DUCT STORM WATER DRAIN PEDESTARIAN TRACK | 1378780.00 86701557.53 DN TO BALDEOBAGH Amount (In Rs.) 25715026.02 30163498.57 8082073.80 6882278.00 |
| 1 2 3 | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description ROAD UTILITY DUCT STORM WATER DRAIN | 1378780.00 86701557.53 DN TO BALDEOBAGH Amount (In Rs.) 25715026.02 30163498.57 8082073.80 6882278.00 |
| 1 2 3 4 | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description ROAD UTILITY DUCT STORM WATER DRAIN PEDESTARIAN TRACK | 1378780.00 86701557.53 DN TO BALDEOBAGH Amount (In Rs.) 25715026.02 30163498.57 8082073.80 6882278.00 1104567.00 |
| 1 2 3 4 5 | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description ROAD UTILITY DUCT STORM WATER DRAIN PEDESTARIAN TRACK SIGNAGES, MARKING, LANDSCAPING TOTAL DAD STRECH FROM YATAYAT TIRAHA TO PRANJAPI LENGTH 824 METERS | 1378780.00 86701557.53 ON TO BALDEOBAGH Amount (In Rs.) 25715026.02 30163498.57 8082073.80 6882278.00 1104567.00 71947443.39 E CHOWK (HANUMAN MANDIR) |
| 1 2 3 4 5 | TOTAL ROAD STRECH FROM RANITAAL JUNCTIC SUMMARY SHEET Item Description ROAD UTILITY DUCT STORM WATER DRAIN PEDESTARIAN TRACK SIGNAGES, MARKING, LANDSCAPING TOTAL DAD STRECH FROM YATAYAT TIRAHA TO PRANJAPI | Amount (In Rs.) 25715026.02 30163498.57 8082073.80 6882278.00 1104567.00 71947443.39 E CHOWK (HANUMAN MANDIR) |

| 1 | ROAD | 22013262.52 |
|---|--------------------------------|-------------|
| 2 | UTILITY DUCT | 27354243.30 |
| 3 | STORM WATER DRAIN | 7782779.44 |
| 4 | PEDESTARIAN TRACK | 7275577.20 |
| 5 | SIGNAGES, MARKING, LANDSCAPING | 1574925.00 |
| | TOTAL | 66000787.46 |

ROAD FROM STRETCH SATKAR HOTEL TO HOME SCIENCE ROAD & TEEN PATTI CHOWK TO GOUMATA CHOWK LENGTH 1470 METERS

SUMMARY SHEET Amount Sr No. **Item Description** (In Rs.) ROAD 17934482.64 1 UTILITY DUCT 52945473.61 2 STORM WATER DRAIN 12668128.20 3 4 PEDESTRIAN TRACK 11357481.00 5 SIGNAGES, MARKING, LANDSCAPING 1700575.00 TOTAL 96606140.45

| | | ESTIMATE OF ROAD | | | | |
|-------|--------------------------------------|--|-------------------|-----------|-------|---------------|
| _ | | CH FROM SATKAR HOTEL TO HOME SCIENCE ROAD & TEEN | I PATTI CHOWK | TO GOUMAT | A CHO | wк |
| S.No. | UADD SOR Vol II & III, ITEM NO | Descriptions of Item | Quantity | Rate | Unit | Amount in Rs. |
| | | | Quantity | | | |
| 4 | 2.3, (i) | Diamontling | _ | | | |
| 1 | Vol III | Dismantling | | | | |
| | | 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 lifts and lead 1000 | | | | |
| | | meter. | | | | |
| | | Cement Concrete Grade M-15 & M-20 | 275.00 | 234.00 | cum | 64350.0 |
| | 2.40 | Dismantling of flexible pavements and disposal of dismantled | | | | |
| • | | materials up to a lead of 1000 meter, stacking serviceable and | | | | |
| 2 | | unserviceable materials separately and as per relevant clauses | | | | |
| | | of section-200. | | | | |
| | a) | Bituminous courses | 154.35 | 358.00 | cum | 55257.3 |
| | 2.5 vol III | Dismantling of cement concrete pavement i/c breaking to | | | | |
| | | pieces not exceeding 0.02 cum in volume and stock piling at | | | | |
| | | designated locations and disposal ofdismantled materials up | | | | |
| 3 | | to a lead upto 1000 meter, stacking serviceable and | | | | |
| | | unserviceable materials separately and as per relevant clauses | | | | |
| | | of section-200. | | | | |
| | | Total quantity | 142.73 | 716.00 | cum | 102191.1 |
| | 2.7 | | | | | |
| | 2.7 vol III | Dismantling kerb stone by manual means and disposal of | | | | |
| 4 | | dismantled material with all lifts and up to a lead upto 1000 | | | | |
| | | meter and as per relevant clauses of section-200. | | | | |
| | | Total quantity | 210.00 | 6.00 | m | 1260.0 |
| | 2.12 vol III | Removal of telephone / Electric poles including excavation and | | | | |
| | | dismantling of foundation concrete and lines under the | | | | |
| 5 | | supervision of concerned department, disposal with all lifts | | | | |
| | | and up to a lead of 1000 meter and stacking the serviceable | | | | |
| | | and unserviceable material separately. | | | | |
| | | Total quantity | 33.00 | 90.00 | each | 2970.0 |
| 6 | 3.1, Vol III | Excavation | | | | |
| | | Excavation for roadway in soil including loading in truck for | | | | |
| | | carrying of cut earth to embankment site with all lifts and lead | | | | |
| | | upto1000 metres and as per relevant clauses of section-300 | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 860m, = 860m | 1264.20 | | | |
| | | Ch. 860 to 1470m, = 610m | 896.70 | | | |
| | | at Junctions Total quantity | 220.50 2381.40 | 98.00 | cum | 233377.2 |
| | | | 2301.70 | | cuili | |
| 7 | 3.11, Vol III | Earthwork | | | | |
| | | 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 then | | | | |
| | | 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction | | | | |
| | | and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) | | | | |
| | | shaping & 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. | | | | |
| | | For Widening of Corrigonum | | | | |
| | | | | | | 1 |
| | | For Widening of Carriageway Ch. 0 to 860m. = 860m | 602.00 | | | |
| | | Ch. 0 to 860m, = 860m Ch. 860 to 1470m, = 610m | 602.00 427.00 | | | |

| S.No. | UADD SOR Vol II & III, ITEM NO | Descriptions of Item | Quantity | Rate | Unit | Amount in Rs. |
|-------|--------------------------------------|--|----------|--------|------|---------------|
| | - | T at 1 | Quantity | | | |
| | | Total quantity | 1134.00 | 272.00 | cum | 308448.00 |
| 8 | 4.8(a) I Vol III | Crusher Run Macadam | | | | |
| | | 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) | | | | |
| | | , , , | | | | |
| | | For 53 mm maximum size | | | | |
| | | For Widening of Carriageway Ch. 0 to 860m, = 860m | 361.20 | | | |
| | | Ch. 860 to 1470m, = 610m | 256.20 | | | |
| | | At Junctions | 63.00 | | | |
| | | Total quantity | 680.40 | 833.00 | cum | 566773.20 |
| 9 | 4.5 Vol III | WMM | | | | |
| | | 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. | | | | |
| | | Fac Widening of Corrigonum | | | | |
| | | For Widening of Carriageway Ch. 0 to 860m, = 860m | 301.00 | | | |
| | | Ch. 860 to 1470m, = 610m | 213.50 | | | |
| | | at Junctions | 52.50 | | | |
| | | Total quantity | 567.00 | 951.00 | cum | 539217.00 |
| | | | | | | |
| 10 | 5.1 Vol III | Primer Coat Providing and applying primer coat with bitumen emulsion on | | | | |
| | | prepared surface of granular Base including clearing of road | | | | |
| | | surface and spraying primer at the rate of 0.75 kg/sqm using | | | | |
| | | mechanical / Manual means and as per relevant clauses of | | | | |
| | | section 502. | | | | |
| | | For Widening of Carriageway | | | | |
| | - | Ch. 0 to 860m, = 860m | 1204.00 | | | |
| | | Ch. 860 to 1470m, = 610m | 854.00 | | | |
| | | At Junction | 210.00 | | | |
| | | Total quantity | 2268.00 | 26.00 | Sqm | 58968.00 |
| | | | | | | |
| 11 | 5.2 (ii) Vol III | Tack Coat | | | | |
| | | 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 (normal bituminous surfaces) | | | | |
| | | for bc 50mm | 7210.00 | | | |
| | | | 7210.00 | 9.00 | sqm | 64890.00 |
| | | @0.30 kg per sqm (dry & hungry bituminous | | | | |
| | | surfaces/granular surfaces treated with primer) | | | | |
| | | on existing road for DBM 100mm | 7210.00 | | | |
| | 1 | widening part | 1442.00 | | | |
| | 1 | At Junction | 2700.00 | | | |
| | | Total quantity | 11352.00 | 11.00 | sqm | 124872.00 |
| | 5.1 | 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. | | | | 1 |

| S.No. | UADD SOR Vol II & III, ITEM NO | Descriptions of Item | Quantity | Rate | Unit | Amount in Rs. |
|-------|--------------------------------------|---|----------|---------|------|---------------|
| | | | Quantity | | | |
| | iv) | @0.35 kg per sqm (Non-bituminous surfaces) cement concrete pavement | | | | |
| | | On OLD CC Road @ 0.35 Kg / sqm | | | | |
| | | on existing cc road for DBM | 3080.00 | | | |
| | | widening part | 616.00 | | | |
| | | Total quantity | 3696.00 | 13.00 | sqm | 48048.00 |
| 12 | 5.6 (i) Vol III | Dense Bituminous Macadam | | | | |
| | | Providing and laying dense bituminous macadam (in two | | | | |
| | | layers of 50mm thickness each or as per the instruction of | | | | |
| | | engineer in charge) 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) | | | | |
| | | ch. 0 to 1470 | 1029.00 | | | |
| | | widening part | 205.80 | | | |
| | | At junction | | | | |
| | | ch. 0 to 1470 | 210.00 | | | |
| | | widening part | 21.00 | | | |
| | | Total quantity | 1465.80 | 7161.00 | cum | 10496593.80 |
| 13 | 5.8 (iv) Vol III | Bituminous Concrete | | | | |
| | | 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 | | | | |
| | | ch. 0 to 1470 | 411.60 | | | |
| | | widening part | 82.32 | | | |
| | | At Junction | 84.00 | | | |
| | | | 8.40 | | | |
| | | Total quantity | 586.32 | 8226.00 | cum | 4823068.32 |
| | Volumo 2 itorr | | | | | |
| | Volume 3,item | | | | | |
| 14 | no.5.4, page 51 | 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. | | | | |
| | | Taking 20% of the existing road | 411.60 | | | |
| | | | 82.32 | 5396.00 | Cum | 444198.72 |
| | | | | | | |

| RC | DAD FROM STR | ESTIMATE OF ELECTRICAL D ECH SATKAR HOTEL TO HOME SCIENCE ROAD & T | | HOWK TO G | OUMA | |
|-------|---------------|--|------------------|-----------|------|------------|
| S No. | UADD SOR | Descriptions of Item | | | Unit | Amount |
| | | | Quantity | | | |
| | | | | | | |
| 1 | 2.9.1, Vol II | Excavation | | | | |
| | | Excavation work in foundation trenches or | | | | |
| | | drains not exceeding 1.5 m in width or 10 sqm | | | | |
| | | on plan including dressing of sides and ramming | | | | |
| | | of bottoms lift upto 1.5 m, including getting out | | | | |
| | | the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m. | | | | |
| | | excavated solis as directed, within a lead of solit. | | | | |
| | | Ordinary rock | | | | |
| | | Excavation for Duct | 12936.00 | | | |
| | | Total quantity | 12936.00 | 202.00 | cum | 2613072.00 |
| | | | | | | |
| 2 | 2.27.1 Vol II | Filling | | | | |
| | | Supplying and filling in plinth under floors | | | | |
| | | including, watering, ramming consolidating and | | | | |
| | | dressing complete. 2.27.1 Crusher Stone Dust | | | | |
| | | For Duct | 588.00 | | | |
| | | Total quantity | 588.00 588.00 | | cum | 369264.00 |
| | | | 500.00 | 020.00 | cam | 303204.00 |
| 3 | 4.1.1 Vol II | Cement Concrete M-15(Duct) | | | | |
| | | Providing and laying in position cement concrete | | | | |
| | | of specified grade excluding the cost of | | | | |
| | | centering and shuttering All work up to plinth | | | | |
| | | level. | | | | |
| | | M 15 with 20mm maxumum size of aggregate. | | | | |
| | | P.C.C Bed | 588.00 | | | |
| | | At Junctions | 60.00 | | | |
| | | Total quantity | 648.00 | 4154.00 | cum | 2691792.00 |
| | | | | | | |
| | 5.1.1 Vol II | Providing and laying in position machine | | | | |
| | | batched, machine mixed and machine vibrated | | | | |
| | | design mix cement concrete of specified grade | | | | |
| | | for reinforced cement concrete work including pumping of concrete to site of laying but | | | | |
| | | excluding the cost of centering, shuttering, | | | | |
| | | finishing and | | | | |
| | | reinforcement. including Admixtures in | | | | |
| 4 | | recommended proportions as per IS 9103 to | | | | |
| | | accelerate, retard setting of concrete, improve | | | | |
| | | workability without impairing strength and | | | | |
| | | durability as per direction of | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | |
| | | cement concrete by using 410 kg. of cement per | | | | |
| | | cum of concrete. All work up to floor 2 level. | | | | |
| | | | | | | |
| | | Along Road | | | | |

| | | | 045.05 | | | |
|---|---------------|--|---------------------------|---------|-----|-------------|
| | | R.C.C. Base | 815.85 | | | |
| | | R.C.C. Wall | 1411.20 | | | |
| | | Middle RCC wall | 661.50 | | | |
| | | At Junctions | | | | |
| | | R.C.C. Base | 90.00 | | | |
| | | R.C.C. Wall | 72.00 | | | |
| | | Middle RCC wall | 67.50 | | | |
| | | | | | | |
| | | Total quantity | 3118.05 | 5245.00 | cum | 16354172.25 |
| | | | | | | |
| | | Droviding, baisting and fiving up to floor two | | | | |
| | | Providing, hoisting and fixing up to floor two | | | | |
| | | level precast reinforced cement concrete work | | | | |
| | | in string courses, bands, copings, bed plates, | | | | |
| | | anchor blocks, plain window sills and the like | | | | |
| 5 | | including the cost of required centering, | | | | |
| | | shuttering, finishing smooth with 6 mm thick | | | | |
| | | cement plaster 1:3 (1 cement : 3 fine sand) on | | | | |
| | | exposed surfaces complete but excluding cost of | | | | |
| | | reinforcement with Cement concrete grade M- | | | | |
| | Vol II | 20 (Nominal Mix with 20 mm maximum size of | | | | |
| | 5.10 | stone aggregate) | | | | |
| | | Along Road | | | | |
| | | Precast Cover | 543.90 | | | |
| | | For Chamber | | | | |
| | | RCC Cover for Chamber | 13.88 | | | |
| | | Total quantity | 557.78 | 6524.00 | cum | 3638924.10 |
| | | | | | | |
| | | | | | | |
| 6 | 5.20.6 Vol II | Reinforcement for Duct | | | | |
| | | Reinforcement for R.C.C. work including | | | | |
| | | straightening, cutting, bending, placing in | | | | |
| | | | | | | |
| 1 | | position and binding all complete. | | | | |
| | 5.20.6 | position and binding all complete. Thermo-Mechanically Treated bars. | | | | |
| | 5.20.6 | | | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars. | | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as | 195813.54 | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total | 195813.54 35028.27 | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity | | 60.00 | Кg | 13850508.60 |
| | 5.20.6 | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity | 35028.27 | 60.00 | Кg | 13850508.60 |
| 7 | 5.20.6 | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity | 35028.27 | 60.00 | Кg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover | 35028.27 | 60.00 | Кg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct | 35028.27 | 60.00 | Кg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, | 35028.27 | 60.00 | Kg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : | 35028.27 | 60.00 | Кg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. | 35028.27 | 60.00 | Кд | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. Along Road | 35028.27 230841.81 | 60.00 | Кg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. Along Road R.C.C. wall outer | 35028.27 230841.81 | 60.00 | Кд | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. Along Road R.C.C. wall outer R.C.C. wall inner | 35028.27 230841.81 | 60.00 | Кд | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. Along Road R.C.C. wall outer R.C.C. wall inner R.C.C. Base wall | 35028.27 230841.81 | 60.00 | Kg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. Along Road R.C.C. wall outer R.C.C. wall inner R.C.C. Base wall Middle Wall | 35028.27 230841.81 | 60.00 | Kg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. Along Road R.C.C. wall outer R.C.C. wall inner R.C.C. Base wall Middle Wall At Junction | 35028.27 230841.81 | 60.00 | Kg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. Along Road R.C.C. wall outer R.C.C. wall inner R.C.C. Base wall Middle Wall At Junction R.C.C. wall outer | 35028.27 230841.81 | 60.00 | Kg | 13850508.60 |
| 7 | | Thermo-Mechanically Treated bars. Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity For Precast Cover Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. Along Road R.C.C. wall outer R.C.C. wall inner R.C.C. Base wall Middle Wall At Junction | 35028.27 230841.81 | 60.00 | Kg | 13850508.60 |

| | | Middle Wall | 1800.00 | | | |
|----|---------------|--|----------|---------|-----|-------------|
| | | Total quantity | 33870.00 | 138.00 | cum | 4674060.00 |
| | | | | | | |
| | | | | | | |
| | | Brick work with well burnt chimney bricks in | | | | |
| | | bulls patent trench kiln manifactured by ghol | | | | |
| | | process, crushing strength not less than 40kg | | | | |
| | | /sqcm and water absorption not more than 15% | | | | |
| 8 | 6.1 Vol II | in foundation and plinth. | | | | |
| | | Cement mortar 1:6 (1 cement : 6 coarse sand) | | | | |
| | | Total quantity | 7.73 | 4232.00 | cum | 32704.90 |
| | | | | | | |
| | | 15mm cement plaster on the rough side of | | | | |
| 9 | 13.2 Vol II | single or half brick wall of mix : | | | | |
| | | 1:5 (1 cement: 5 fine sand) Total quantity | 38.64 | 119.00 | cum | 4598.16 |
| | | | | | | |
| 10 | 2.27.2 Vol II | Sand Filling | | | | |
| | | Supplying and filling in plinth under floors | | | | |
| | | including, watering, ramming consolidating and | | | | |
| | | dressing complete. | | | | |
| | | | 6585.60 | | | |
| | | | 672.00 | | | |
| | | Local Sand | 7257.60 | 1201.00 | cum | 8716377.60 |
| | | TOTAL | | | | 52945473.61 |

| | | ESTIMATE OF STORM WATER D | | | | |
|-------|---------------|--|----------|---------|------|------------|
| S No. | UADD SOR | RECH SATKAR HOTEL TO HOME SCIENCE ROAD & TE | ENPAITCH | | | |
| | ITEM NO | Descriptions of Item | Quantity | Rate | Unit | Amount |
| | 2.9.1, Vol II | Excavation work in foundation trenches or drains | | | | |
| | | not exceeding 1.5 m in width or 10 sqm on plan | | | | |
| | | including dressing of sides and ramming of | | | | |
| 1 | | bottoms lift upto 1.5 m, including getting out the | | | | |
| | | excavated soil and disposal of surplus excavated | | | | |
| | | soils as directed, within a lead of 50m. | | | | |
| | 2.9.1 | Ordinary rock Cum 202.00 | 2352.00 | | | |
| | | At Junction | 240.00 | | | |
| | | Total quantity | 2592.00 | 202.00 | cum | 523584.00 |
| | | Supplying and filling in plinth under floors | | | | |
| 2 | | including, watering, ramming consolidating and | | | | |
| 2 | | dressing complete. | | | | |
| | 2.27.1 Vol II | Crusher Stone Dust | | | | |
| | 2.27.1 | Crusher Stone Dust | 235.20 | | | |
| | | At Junction | 24.00 | | | |
| | | Total quantity | 259.20 | 628.00 | cum | 162777.60 |
| 3 | 4.1.2 Vol II | Cement Concrete M-20 (Duct) | | | | |
| 5 | 4.1.2 00111 | Providing and laying Plain / Reinorced cement | | | | |
| | | concrete (mixed in concrete mixture) RCC | | | | |
| | | Grade | | | | |
| | | M 15 with 20mm maxumum size of aggregate. | | | | |
| | | | | | | |
| | | P.C.C Bed | 235.20 | | | |
| | | Total quantity | 28.80 | 4154.00 | cum | 1096656.00 |
| | | | 204.00 | 4154.00 | cum | 1090030.00 |
| | 5.1.1 Vol II | | | | | |
| | | | | | | |
| | | Providing and laying in position machine batched, | | | | |
| | | machine mixed and machine vibrated design mix | | | | |
| | | cement concrete of specified grade for reinforced | | | | |
| | | cement concrete work including pumping of | | | | |
| | | concrete to site of laying but excluding the cost | | | | |
| 4 | | of centering, shuttering, finishing and | | | | |
| | | reinforcement. including Admixtures in | | | | |
| | | recommended proportions as per IS 9103 to | | | | |
| | | accelerate, retard setting of concrete, improve | | | | |
| | | workability without impairing strength and | | | | |
| | | durability as per direction of | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | |
| | | cement concrete by using 410 kg. of cement per | | | | |
| | | cum of concrete. All work up to floor 2 level. | | | | |
| | | Along Road RCC Base 100 MM Thick | 235.20 | | | |
| | 1 | R.C.C. Wall 100 MM Thick | 382.20 | | | |
| | | At Junction | 562.20 | | | |
| | 1 | RCC Base 100 MM Thick | 48.00 | | | |
| | 1 | | | | | |
| | | R.C.C. Wall 100 MM Thick | 78.00 | | | |

| 5 | 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) | | | | |
|---|---------------|--|----------|---------|-----|------------|
| | | Along Road | | | | |
| | | Precast Grating Cover for Drains | 235.20 | | | |
| | | At Junctions | | | | |
| | | Precast Grating Cover for Drains | 48.00 | | | |
| | | Total quantity | 283.20 | 6524.00 | cum | 1847596.80 |
| | | | | | | |
| | | | | | | |
| | | Reinforcement for R.C.C. work including | | | | |
| 6 | | straightening, cutting, bending, placing in | | | | |
| | 5.20.6 Vol II | position and binding all complete. | | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars | | | | |
| | | Total Weight of steel KG- | 46685.52 | | | |
| | | Total Weight of steel KG- | 17784.96 | | | |
| | | | 64470.48 | 60.00 | Kg | 3868228.80 |
| 7 | 20.1.1 Vol II | Form work for Duct | | | | |
| | | Centering and shuttering including strutting, | | | | |
| | | propping etc.and removal of form for : | | | | |
| | | Foundations, footings, bases of columns, etc. For | | | | |
| | 20.1.1 | mass concrete. | | | | |
| | | Along Road | | | | |
| | | R.C.C. wall outer | 3822.00 | | | |
| | | R.C.C. wall inner | 3822.00 | | | |
| | | At Junction | | | | |
| | | R.C.C. wall outer | 780.00 | | | |
| | | R.C.C. wall inner | 780.00 | | | |
| | | Total quantity | 9204 | 138.00 | Sqm | 1270152.00 |
| | | | 5204 | 120.00 | Sym | 12/0152.00 |

ESTIMATE OF PEDESTRIAN PATH

| ROA | D FROM STREC | H SATKAR HOTEL TO HOME SCIENCE ROAD & 1 LENGTH 1470 METERS | EEN PATTI (| CHOWK TO | GOUMATA | A CHOWK |
|-------|---------------|--|-------------|----------|---------|------------|
| S No. | UADD SOR | Descriptions of Item | | Rate | Unit | Amount |
| | ITEM NO | | Quantity | | | |
| 1 | 3.1, Vol III | Excavation | | | | |
| | | Excavation for roadway in soil including | | | | |
| | | loading in truck for carrying of cut earth to | | | | |
| | | embankment site with all lifts and lead | | | | |
| | | upto1000 metres and as per relevant | | | | |
| | | clauses of section-300 | | | | |
| | | Ch 0 - 1470 | 4410.00 | | | |
| | | At Junctions | 450.00 | | | |
| | | Total | 4860.00 | 98.00 | cum | 476280.00 |
| | | | | | | |
| 2 | 3.11, Vol III | Earthwork | | | | |
| | | 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 then 7% i/c all lead & lifts i/c | | | | |
| | | excavation, cost of watering, mpaction 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 | | | | |
| | | Along Road | 2646.00 | | | |
| | | At Junction | 270.00 | | | |
| | | Total | 2646.00 | 272.00 | cum | 719712.00 |
| 3 | 4.1.5 Vol II | Cement Concrete M - 10 | | | | |
| 3 | 4.1.5 V0111 | Providing and laying in position cement | | | | 1 |
| | | concrete in foundation Up to plinth level. | | | | |
| | | Cement concrete grade M-10 (Nominal Mix) | | | | |
| | | with 40 mm maximum size of stone | | | | |
| | | | | | | |
| | | aggregate | 1323.00 | | | 1 |
| | | Footpath M - 10 Along Road | 1323.00 | | | |
| | | At junction | 1458.00 | 3528.00 | Sqm | 5143824.00 |
| | | | 1458.00 | 3328.00 | Sqiii | 5145824.00 |
| 4 | 5.1. Vol II | | | | | 1 |
| | | Providing and laying in position specified | | | | |
| | | grade of reinforced cement concrete | | | | |
| | | excluding the cost of centering, shuttering, | | | | |
| | | finishing and reinforcement - All work up to | | | | |
| | | plinth level : | | | | |
| | | Cement concrete grade M-20 (Nominal Mix) | | | | |
| | | with 20 mm maximum size of stone | | | | |
| | | aggregate. | | | | |
| | | | 66.00 | 4728.00 | Sqm | 312048.00 |
| 5 | | Poinforcement for P.C.C. work including | | | | |
| | | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in | | | | |
| | | | | | | |
| | | position and binding all complete. | | | | |

| S No. | UADD SOR | Descriptions of Item | | Rate | Unit | Amount |
|-------|--------------------|---|-------------------|------------------|----------|------------------------|
| | ITEM NO | | Quantity | | | |
| | | Thermo-Mechanically Treated bars | | | | |
| | | Total Weight of steel KG- | 3626.70 | 60 | Kg | 217602.00 |
| | | | | | | |
| 6 | 11.29 | Flag Stone | | | | |
| | | 40 mm thick rubbed local Flag stone flooring | | | | |
| | | over 20 mm (average) thick base of cement | | | | |
| | | mortar 1:5 (1 cement :5 coarse sand) with | | | | |
| | | joints 3mm thick, side buttered with cement | | | | |
| | | mortar 1:2 (1 cement : 2 stone dust) | | | | |
| | | admixed with pigment to match the shade | | | | |
| | | of stone and pointing with same mortar | | | | |
| | | (minimum size of kota stone 0.25 sqm) | | | | |
| | | | | | | |
| | | Along Road | | | | |
| | 11.30.1 | Red sand stone | 3250.00 | 513.00 | Sqm | 1667250.00 |
| | 11.30.2 | White sand stone | 2250.00 | 532.00 | Sqm | 1197000.00 |
| | 44.20.4 | At Junction | 275.00 | 542.00 | C | 103375.00 |
| | 11.30.1 11.30.2 | Red sand stone | 375.00 375.00 | 513.00 532.00 | Sqm | 192375.00 199500.00 |
| | 11.30.2 | White sand stone | 375.00 | 532.00 | Sqm | 199500.00 |
| 7 | 11.20 Vol II | Chequerred precast cement concrete tiles | | | | |
| , | 11.20 00111 | 18-20mm thick in footpath & courtyard | | | | |
| | | jointed with neat cement slurry mixed with | | | | |
| | | pigment to match the shade of tiles | | | | |
| | | including rubbing and cleaning etc. | | | | |
| | | complete on 20 mm thick | | | | |
| | | bed of cement mortar 1:4 (1 cement: 4 | | | | |
| | | coarse sand). | | | | |
| | | | | | | |
| | | Along Road | | | | |
| | 11.20.3 | Dark shade using ordinary cement. | 1100.00 | 616.00 | SqM | 677600.00 |
| | | At junction | | | | |
| | | Dark shade using ordinary cement. | 150.00 | 616.00 | SqM | 92400.00 |
| | | | | | | |
| 8 | 8.1, Vol III, pg | Kerb Stone | | | | |
| | 69 | | | | | |
| | | Construction of cement concrete kerb with | | | | |
| | | top and bottom width 115 and 165 mm | | | | |
| | | | | | | |
| | | respectively, 250 mm high in M 20 grade | | | | |
| | | PCC on M-10 grade foundation 150 mm | | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection | | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with | | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete | | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause | | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. | | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause | | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer | | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer towards road side | 2200.00 | | | |
| | | PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer | 2200.00 270.00 | 187.00 | meter | 461890.00 |

| ITEM NO Quantity Quantity 1 Item 8.10 Vol III Road Marking Quantity Image: Comparison of the second of the | | EST | IMATE OF ROAD MARKING, STREET FURNITUR | ES & PLA | NTATIO | N | |
|---|-------|-------------|---|-----------|----------|-------|-----------|
| UADD SOR ITEM NO Descriptions of Item Rate Unit Amou 1 Item 8.10 Vol III Road Marking Image: Comparison of Item 1000000000000000000000000000000000000 | ROAL | D FROM STRE | | АТТІ СНОМ | /K TO GO | UMATA | сноwк |
| 1 Item 8.10 Vol III Road Marking Image: Comparison of the comp | S No. | | Descriptions of Item | | Rate | Unit | Amount |
| Vol III Road Marking Image: Compound 2.5 Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800. Image: Compound 2.5 mm thick including reflectorising glass beads as a per IRC:35. The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800. Image: Compound 2.5 mm the Colour 294.00 Image: Compound 2.5 mm the Colour 295.00 Sqm 809820 2 Item 8.8 Painting lines, dashes, arrows etc Total Quantity | | | | Quantity | | | |
| Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800. Solid Lines in White Colour 294.00 Brocken Lines in White Colour 147.00 Stop Lines in White Colour 58.80 Applying Zebra Crossing 400.00 Brocken Lines, in White Colour 58.80 Applying Zebra Crossing 400.00 Brocken Lines, in White Colour 58.80 Vol III Painting lines, dashes, arrows etc 2 Painting lines, dashes, arrows etc 2 2 Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to 15:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of paint etc. complete. 735.00 70.00 Sqm 3 Item No 8.3 Signages Vol III Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supp | 1 | | Road Marking | | | | |
| with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:33. The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800. Solid Lines in White Colour 147.00 Brocken Lines in White Colour 147.00 Mathematic Colour 58.80 Applying Zebra Crossing 400.00 Painting lines, dashes, arrows etc Vol III Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to 15:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of paint etc. complete. 735.00 70.00 Sqm 51450 3 Item No 8.3 Signages Yol III Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC.157 made of encapsulatel lens type reflective bettering wheel the road and blotond of the sign board shall not be less than 1.5 m. 1 | | | Solid Lines in White Colour | | | | |
| Solid Lines in White Colour 294.00 Brocken Lines in White Colour 147.00 Stop Lines in White Colour 58.80 Applying Zebra Crossing 400.00 Total Quantity 899.80 900.00 Server and the servere secret server and the server and the server and the | | | with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished | | | | |
| Brocken Lines in White Colour 147.00 Stop Lines in White Colour 58.80 Applying Zebra Crossing 400.00 Total Quantity 899.80 900.00 Sqm 2 Item 8.8 Vol III Painting lines, dashes, arrows etc Nol III Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to 15:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of paint etc. complete. 3 Item No 8.3 Vol III Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) 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 including painting of vertical post as per specification. 90 cm equilateral triangle 5.00 3715.00 Nos 18572 | | | holes and as per relevant clauses of section-800. | | | | |
| Brocken Lines in White Colour 147.00 Image: Stop Lines in White Colour 58.80 Image: Stop Lines in White Colour Total Quantity 809820 Image: Stop Lines in White Colour Image: Stop Lines in White Colour Total Quantity 809820 Image: Stop Lines in White Colour Image: Stop Lines in White Colour Image: Stop Lines in White Colour Image: Stop Lines in White Colour | | | Solid Lines in White Colour | 294.00 | | | |
| Applying Zebra Crossing 400.00 Image: Constant of the second | | | | 147.00 | | | |
| Total Quantity 899.80 900.00 Sqm 809820 2 Item 8.8 Painting lines, dashes, arrows etc | | | Stop Lines in White Colour | 58.80 | | | |
| 2 Item 8.8 Vol III Painting lines, dashes, arrows etc Image: Construct of the second se | | | | | | | |
| Vol IIIPainting 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, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of paint etc. complete.735.0070.00Sqm514563Item No 8.3 Vol IIISignages | | | Total Quantity | 899.80 | 900.00 | Sqm | 809820.00 |
| Vol IIIPainting 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, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of paint etc. complete.735.0070.00Sqm514563Item No 8.3 Vol IIISignages70.00Sqm5145670.00Sqm514563Item No 8.3 Vol IIISignages70.00Sqm5145670.00Sqm514563Item No 8.3 Vol IIISignages70.00Sqm5145670.00Sqm514564Item No 8.3 Vol IIISignages70.00Sqm5145670.00Sqm514563Item No 8.3 Vol IIISignagesFertor- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) 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 including painting of vertical post as per specification.3715.00Nos18575 | | | Delution lines, deskas, success sta | | | | |
| 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, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of paint etc. complete.735.0070.00Sqm514503Item No 8.3 Signages Vol IIISignages | Z | | Painting lines, dashes, arrows etc | | | | |
| 3 Item No 8.3 Vol III Signages Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) 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 including painting of vertical post as per specification. 3715.00 Nos 18575 | | | 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, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of | | 70.00 | Sam | 51450.00 |
| Vol IIIProviding and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) 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 including painting of vertical post as per specification.3715.00 Nos18575 | | | | | | | |
| mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) 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 including painting of vertical post as per specification.5.003715.00Nos18575 | 3 | | Signages | | | | |
| | | | mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) 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 including painting of vertical post as per specification. | | | | |
| | | | | | | | 18575.00 |
| | | | 80 cm x 60 cm rectangular | 10.00 | 4537.00 | Nos | 45370.00 |

| S No. | UADD SOR ITEM NO | Descriptions of Item | | Rate | Unit | Amount |
|-------|------------------------|---|----------|--------|--------|-----------|
| | | | Quantity | | | |
| 4 | 8.12 Vol III | Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80- 100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications. | | | | |
| | 8.12 V01 III | | 40.00 | 292.00 | each | 11680.00 |
| | | | | 252.00 | cuen | |
| | 8.20 Vol III | Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973) | | | | |
| | | | 40.00 | 292.00 | each | 11680.00 |
| | | | | | | |
| 5 | | | | | | |
| | 11.1 Vol III | Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart) | 1600.00 | 230.00 | Motor | 368000.00 |
| | Vorm | | 1000.00 | 230.00 | wietei | 308000.00 |
| 6 | 11.2 Vol III | Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge mannure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year) | 100.00 | 488.00 | Nos | 48800.00 |
| 7 | 23.15 MP PWD SOR | Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture mannuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately). | | | | |
| | 23.15.1 | Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height. | 100.00 | 645 | each | 64500.00 |
| | 23.15.2 | Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m) | 1600.00 | 33 | each | 52800.00 |

| S No. | UADD SOR ITEM NO | Descriptions of Item | | Rate | Unit | Amount |
|-------|---------------------|---|----------|------|-----------------------|------------|
| | | | Quantity | | | |
| 8 | 11.5 vol-3 | Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together) | 100 | | each tree guard | 217900.00 |
| | | TOTAL | | | | 1700575.00 |

ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION LENGTH - 1051 METERS

| | SUMMARY SHEET | | | | | | |
|--------|--------------------------------|--------------------|--|--|--|--|--|
| Sr No. | Item Description | Amount (In Rs.) | | | | | |
| 1 | ROAD | 28932102.99 | | | | | |
| 2 | UTILITY DUCT | 42531931.24 | | | | | |
| 3 | STORM WATER DRAIN | 10742362.01 | | | | | |
| 4 | PEDESTARIAN TRACK | 8097362.60 | | | | | |
| 5 | SIGNAGES, MARKING, LANDSCAPING | 1224625.00 | | | | | |
| | TOTAL | 91528383.83 | | | | | |

| | | ESTIMATE OF RO | DAD | | | |
|-------|---------------------|--|------------|------------|----------|---------------|
| | | ROAD STRECH FROM BLOOM CHOWK TO MA LENGTH - 1051 ME | | L POLICE S | TATION | |
| S.No. | UADD SOR ITEM NO | Descriptions of Item | Measuremen | Rate | Unit | Amount in Rs. |
| | | | Quantity | | | |
| 1 | 2.3 <i>,</i> (i) | Dismantling | | | | |
| | | 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 lifts | | | | |
| | | and lead 1000 meter. | | | | |
| | | Cement Concrete Grade M-15 & M-20 | 182.04 | 234.00 | cum | 42597.36 |
| 2 | 2.40 | Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200. | 102.04 | 234.00 | cum | 42397.30 |
| | a) | Bituminous courses | 141.89 | 358.00 | cum | 50794.83 |
| | | | | | | |
| 3 | 2.5 vol III | Dismantling of cement concrete pavement i/c breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal ofdismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200. | | | | |
| | | | 62.87 | 716.00 | cum | 45011.34 |
| 4 | 2.7 vol II | Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead upto 1000 meter and as per relevant clauses of section-200. | | | | |
| | | | 168.00 | 6.00 | m | 1008.00 |
| 5 | 2.12 vol II | Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 meter and stacking the serviceable and unserviceable material separately. | | | | |
| | | | 33.00 | 90.00 | each | 2970.00 |
| 6 | 3.1, Vol III | Excavation Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300 | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 1051m, = 1051m | 7062.72 | | | |
| | + | At Junction | 1680.00 | | 6 | 050700 50 |
| | | Total | 8742.72 | 98.00 | cum | 856786.56 |
| 7 | 3.11, Vol III | Earthwork | | | | <u> </u> |

| 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 then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction 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. | | | | |
|---|---------|--------|-----|------------|
| For Widening of Carriageway | | | | |
| Ch. 0 to 1051m, = 1051m | 3363.20 | | | |
| at Junctions | 800.00 | | | |
| Total | 4163.20 | 272.00 | cum | 1132390.40 |

| 8 | 4.8(a) I Vol III | Crusher Run Macadam | | | | |
|----|------------------|---|----------|--------|-----|------------|
| | | 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) | | | | |
| | | For 53 mm maximum size | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 1051m, = 1051m | 2017.92 | | | |
| | | | 480.00 | | | |
| | | Total | 2497.92 | 833.00 | cum | 2080767.36 |
| 9 | 4.5 Vol III | WMM | | | | |
| 5 | 4.5 00111 | 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. | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 1051m, = 1051m | 1681.60 | | | |
| | | | 400.00 | | | |
| | | Total quantity | 2081.60 | 951.00 | cum | 1979601.60 |
| 10 | F 4 1/-1 III | | | | | |
| 10 | 5.1 Vol III | Primer Coat | | | | |
| | | Providing and applying primer coat with bitumen emulsion on prepared surface of | | | | |
| | | granular Base including clearing of road surface | | | | |
| | | and spraying primer at the rate of 0.75 kg/sqm | | | | |
| | | using mechanical / Manual means and as per | | | | |
| | | relevant clauses of section 502. | | | | |
| | | | | | | |
| | | For Widening of Carriageway Ch. 0 to 1051m, = 1051m | 6726.40 | | | |
| | | Ch. 0 to 1051m, - 1051m | 1600.00 | | | |
| | | Total quantity | 8326.40 | 26.00 | Sqm | 216486.40 |
| | | | | | | |
| 11 | 5.2 (i) Vol III | Tack Coat | | | | |
| | | 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 (normal bituminous surfaces) | | | | |
| | | for bc 50mm | 15134.40 | | | |
| | | At Junctions | 7200.00 | | | |
| | ī | | 22334.40 | 9.00 | Sqm | 201009.60 |

| @0.30 kg per sqm (dry & hungry bituminous surfaces/granular surfaces treated with primer) | | | | |
|---|----------|-------|-----|-----------|
| On Existing road for DBM 100mm | 9459.00 | | | |
| For widening of carriageway | 6726.40 | | | |
| At Junctions | | | | |
| On Existing road for DBM 100mm | 2250.00 | | | |
| For widening of carriageway | 1600.00 | | | |
| Total quantity | 20035.40 | 11.00 | sqm | 220389.40 |
| | | | | |

| 12 | 5.6 (i) Vol III | Dense Bituminous Macadam | | | |]] |
|----|------------------|--|---------|---------|-------|-------------|
| | | 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) cum 7161.00) | | | | |
| | | | | | | |
| | | | | | | |
| | | On Existing road | 945.90 | | | |
| | ļ | widening part | 672.64 | | | |
| | ļ | At Junctions | | | | |
| | ļ | On Existing road | 225.00 | | | |
| | | widening part | 160.00 | | | |
| | | Total quantity | 2003.54 | 7161.00 | cum | 14347349.94 |
| | | | | | | ļ |
| 13 | 5.8 (iv) Vol III | Bituminous Concrete | | | | |
| | | 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 | | | | |
| | | | | | | |
| | | | | | | |
| | | On Existing road | 378.36 | | | |
| | | widening part | 269.06 | | | |
| | - | At Junctions | | | | |
| | | On Existing road | 90.00 | | | |
| | | widening part | 64.00 | 0000 00 | | 6700440.65 |
| | | Total quantity | 801.42 | 8226.00 | cum | 6592448.02 |
| | 8.1 (A) Vol III | Construction of cement concrete kerb with top | I | | | |
| | | and bottom width 115 and 165 mm | | | | |
| | | respectively, 250 mm high in M 20 grade PCC on | | | | |
| | | M-10 grade foundation 150 mm | | | | |
| | | - | | | | |
| 14 | | thick, foundation having 50 mm projection | | | | |
| | | beyond kerb stone, kerb stone laid with | | | | |
| | | kerb laying machine, foundation concrete laid | | | | |
| | | manually, all complete and as per | | | | |
| | ļ | clause 408 of specifications. | | | | |
| | | | 2102.00 | 100.00 | | 207272 |
| | | | 2102.00 | 189.00 | meter | 397278 |
| | 4.1 vol II | Providing and laying in position cement concrete | | | | |
| | | of specified grade excluding the cost of | | | | |
| 15 | | centering and shuttering All work up to plinth | | | | |
| | | level. | | | | |
| | 1 | 10 4 01. | | | | |

| | 4.1.4 | Cement concrete grade M-10 (Nominal Mix) | | | | |
|----|-----------|--|-----------------|---------|-----|-------------|
| | | with 20 mm maximum size of stone aggregate | | | | |
| | | | 73.57 | | | |
| | | | 73.57 | 3595.00 | Cum | 264484 |
| | 2.27 voll | Supplying and filling in plinth under floors | | | | |
| 16 | | including,watering, ramming consolidating and dressing complete. | | | | |
| | 2.27.1 | Crusher Stone Dust | 147.14 | | | |
| | | | 147.14 | 628.00 | Cum | 92404 |
| | | 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 | | | | |
| | | Taking 20% of the existing road | 378.36 75.67 | 5396.00 | Cum | 408326 |
| | Total | | | | | 28932102.99 |

ESTIMATE OF ELECTRICAL DUCT

ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION LENGTH 1051 METERS

| | | | LENGTH 1051 METERS | | | | | | 1 | |
|-------|---------------|---|--------------------|--------------------|------|------|----------|---------|------|-------------|
| S No. | UADD SOR | Descriptions of Item | Measure | ment | | | | Rate | Unit | Amount |
| | ITEM NO | • | No. | L | В | н | Quantity | | | |
| | | | NO. | L | D | п | Quantity | | | |
| 1 | 2.9.1, Vol II | Excavation | | | | | | | | |
| | , | Excavation work in foundation trenches or | | | | | | | | |
| | | drains not exceeding 1.5 m in width or 10 sqm | | | | | | | | |
| | | on plan including dressing of sides and ramming | | | | | | | | |
| | | of bottoms lift upto 1.5 m, including getting out | | | | | | | | |
| | | the excavated soil and disposal of surplus | | | | | | | | |
| | | excavated soils as directed, within a lead of | | | | | | | | |
| | | 50m. | | | | | | | | |
| | | | | | | | | | | |
| | | Ordinary rock | | | | | | | | |
| | | Excavation for Duct | 2.00 | 1051.00 | 2.00 | 2.20 | 9248.80 | | | |
| | | Tatal avaita. | 10.00 | 50.00 | 2.00 | 2.20 | 2200.00 | 202.00 | | 2242657.60 |
| | | Total quantity | | | | | 11448.80 | 202.00 | cum | 2312657.60 |
| 2 | 2.27.1 Vol II | Filling | | | | | | | | |
| 2 | 2.27.1 0011 | Supplying and filling in plinth under floors | | | | | | | | |
| | | including, watering, ramming consolidating and | | | | | | | | |
| | | dressing complete. | | | | | | | | |
| | | 2.27.1 Crusher Stone Dust | | | | | | | | |
| | | For Duct | 2.00 | 1051.00 | 2.00 | 0.10 | 420.40 | | | |
| | | | 10.00 | 50.00 | 2.00 | 0.10 | 100.00 | | | |
| | | Total quantity | | | | | 520.40 | 628.00 | cum | 326811.20 |
| | | | | | | | | | | |
| 3 | 4.1.1 Vol II | Cement Concrete M-15(Duct) | | | | | | | | |
| | | Providing and laying in position cement | | | | | | | | |
| | | concrete of specified grade excluding the cost of | | | | | | | | |
| | | centering and shuttering All work up to plinth | | | | | | | | |
| | | level. M 15 with 20mm maxumum size of aggregate. | | | | | | | | |
| | | in 15 with 2011 maxamain size of aggregate. | | | | | | | | |
| | | P.C.C Bed | 2.00 | 1051.00 | 2.00 | 0.10 | 420.40 | | | |
| | | At Junctions | 10.00 | 50.00 | 2.00 | 0.10 | 100.00 | | | |
| | | Total quantity | | | | | 520.40 | 4154.00 | cum | 2161741.60 |
| | | | | | | | | | | |
| | 5.1.1 Vol II | Providing and laying in position machine | | | | | | | | |
| | | batched, machine mixed and machine vibrated | | | | | | | | |
| | | design mix cement concrete of specified grade | | | | | | | | |
| | | for reinforced cement concrete work including | | | | | | | | |
| | | pumping of concrete to site of laying but excluding the cost of centering, shuttering, | | | | | | | | |
| | | finishing and | | | | | | | | |
| | | reinforcement. including Admixtures in | | | | | | | | |
| 4 | | recommended proportions as per IS 9103 to | | | | | | | | |
| | | accelerate, retard setting of concrete, improve | | | | | | | | |
| | | workability without impairing strength and | | | | | | | | |
| | | durability as per direction of | | | | | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | | | | | |
| | | cement concrete by using 410 kg. of cement per | | | | | | | | |
| | | cum of concrete. All work up to floor 2 level. | | | | | | | | |
| | | Alexe Decil | | | | | | | | |
| | | Along Road | 2.00 | 1051.00 | 1.85 | 0.15 | 583.31 | | 1 | |
| | | R.C.C. Base R.C.C. Wall | 4.00 | 1051.00 1051.00 | | 1.60 | 1008.96 | | | |
| | | Middle RCC wall | 2.00 | 1051.00 | | 1.50 | 472.95 | | 1 | |
| | | At Junctions | 2.00 | 1051.00 | 5.15 | 1.30 | +12.33 | | 1 | |
| | | R.C.C. Base | 10.00 | 50.00 | 2.00 | 0.15 | 150.00 | | | |
| | | R.C.C. Wall | 10.00 | 50.00 | | 1.60 | 120.00 | | | |
| | | Middle RCC wall | 10.00 | 50.00 | | 1.50 | 112.50 | | | |
| | | Total quantity | | | | | 2447.72 | 5245.00 | cum | 12838265.18 |
| | | | | | | | | | | |

| | | Providing, hoisting and fixing up to floor two | | | | | | | | |
|-------|------------------------------|---|------------|----------------|----------------|---------|----------------------------|---------|-----|------------|
| | | level precast reinforced cement concrete work | | | | | | | | |
| | | in string courses, bands, copings, bed plates, | | | | | | | | |
| | | anchor blocks, plain window sills and the like | | | | | | | | |
| | | including the cost of required centering, | | | | | | | | |
| 5 | | shuttering, finishing smooth with 6 mm thick | | | | | | | | |
| | | cement plaster 1:3 (1 cement : 3 fine sand) on | | | | | | | | |
| | | exposed surfaces complete but excluding cost of | | | | | | | | |
| | | reinforcement with Cement concrete grade M- | | | | | | | | |
| | Vol II | 20 (Nominal Mix with 20 mm maximum size of | | | | | | | | |
| | 5.10 | stone aggregate) | | | | | | | | |
| | | Along Road | | | | | | | | |
| | | Precast Cover | 2.00 | 1051.00 | 1.85 | 0.10 | 388.87 | | | |
| | | For Chamber | | | | | | | | |
| | | RCC Cover for Chamber | 44.00 | 1.25 | 1.85 | 0.10 | 10.18 | | | |
| | | Total quantity | | | | | 399.05 | 6524.00 | cum | 2603369.58 |
| | | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
| 6 | 5.20.6 Vol II | Reinforcement for Duct | | | | | | | | |
| | | Reinforcement for R.C.C. work including | | | | | | | | |
| | | straightening, cutting, bending, placing in | | | | | | | | |
| | | position and binding all complete. | | | | | | | | |
| | | | | | | | | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars. | | | | | | | | |
| | | Taking average weight for estimate (Payable as | | | | | | | | |
| | | actual design & weight calculations) Total | | | | | | | | |
| | | quantity | Qty of Co | ncrete x 0. | <u>8%x 7</u> 8 | 50 | 144109.22 | 60.00 | Kg | 8646553.24 |
| | | For Precast Cover | Qty of Pre | e Cast Cove | rx0.89 | %x 7850 | 23493.77 | 60.00 | Kg | 1409626.46 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 7 | 20.1.1 Vol II | Form work for Duct | | | | | | | | |
| | | Centering and shuttering including strutting, | | | | | | | | |
| | | propping etc.and removal of form for : | | | | | | | | |
| | | 20.1.1 Foundations, footings, bases of columns, | | | | | | | | |
| | | etc. For mass concrete. | | | | | | | | |
| | | | | | | | | | | |
| | | Along Road | | 4054.00 | 4 60 | | 6796.40 | | | |
| | | R.C.C. wall outer | 4.00 | 1051.00 | 1.60 | | 6726.40 | | | |
| | | R.C.C. wall inner | 4.00 | 1051.00 | 1.50 | | 6306.00 | | | |
| | | R.C.C. Base wall | 4.00 | 1051.00 | 0.15 | | 630.60 | | | |
| | | Middle Wall | 4.00 | 1051.00 | 1.50 | | 6306.00 | | | |
| | | At Junction R.C.C. wall outer | 40.00 | F0.00 | 1 70 | | 2400.00 | | | |
| | | R.C.C. wall outer | | 50.00 | 1.70 | | 3400.00 | | | |
| ┝───┦ | | | 40.00 | 50.00 50.00 | 1.60 0.15 | | 3200.00 | | | |
| | | R.C.C. Base wall Middle Wall | 40.00 | 50.00 | 1.50 | | 300.00 | | | |
| | | Total quantity | 40.00 | 30.00 | 1.50 | | 3000.00 29869.00 | 138.00 | cum | 4121922.00 |
| | | | | | | | 29809.00 | 138.00 | cum | 4121922.00 |
| | | Brick work with well burnt chimney bricks in | | | | | | | | |
| | | bulls patent trench kiln manifactured by ghol | | | | | | | | |
| 8 | | process, crushing strength not less than 40kg | | | | | | | | |
| , u | | /sqcm and water absorption not more than 15% | | | | | | | | |
| | 6.1 Vol II | in foundation and plinth. | | | | | | | | |
| | | | | | | | | | | |
| | | Cement mortar 1:6 (1 cement : 6 coarse | | | | 0.30 | 5.52 | 4222.00 | | 22260.64 |
| | | Cement mortar 1:6 (1 cement : 6 coarse sand) Total quantity | 20.00 | 4 60 | 0.20 | | | 4232.00 | | |
| 1 1 | | Cement mortar 1:6 (1 cement : 6 coarse sand) Total quantity | 20.00 | 4.60 | 0.20 | 0.50 | 0.01 | 4232.00 | cum | 23360.64 |
| | | sand) Total quantity | 20.00 | 4.60 | 0.20 | 0.30 | 0.01 | 4232.00 | cum | 23300.04 |
| 9 | 13.2 Vol II | sand) Total quantity 15mm cement plaster on the rough side of | 20.00 | 4.60 | 0.20 | 0.30 | | 4232.00 | cum | 23300.04 |
| 9 | 13.2 Vol II | sand) Total quantity | 20.00 | 4.60 | 0.20 | 0.30 | 27.60 | 119.00 | cum | 3284.40 |
| 9 | 13.2 Vol II | sand) Total quantity 15mm cement plaster on the rough side of single or half brick wall of mix : | | | 0.20 | | | | | |
| 9 | 13.2 Vol II 2.27.2 Vol II | sand) Total quantity 15mm cement plaster on the rough side of single or half brick wall of mix : 1:5 (1 cement: 5 fine sand) Total quantity | | | 0.20 | | | | | |
| | | sand) Total quantity 15mm cement plaster on the rough side of single or half brick wall of mix : 1:5 (1 cement: 5 fine sand) Total quantity Sand Filling | | | 0.20 | | | | | |
| | | sand) Total quantity 15mm cement plaster on the rough side of single or half brick wall of mix : 1:5 (1 cement: 5 fine sand) Total quantity Sand Filling Supplying and filling in plinth under floors | | | 0.20 | | | | | |
| | | sand) Total quantity 15mm cement plaster on the rough side of single or half brick wall of mix : 1:5 (1 cement: 5 fine sand) Total quantity Sand Filling | | | 0.20 | | | | | |
| | | sand) Total quantity 15mm cement plaster on the rough side of single or half brick wall of mix : 1:5 (1 cement: 5 fine sand) Total quantity Sand Filling Supplying and filling in plinth under floors including, watering, ramming consolidating and | | | 1.55 | | | | | |
| | | sand) Total quantity 15mm cement plaster on the rough side of single or half brick wall of mix : 1:5 (1 cement: 5 fine sand) Total quantity Sand Filling Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. | 20.00 | 4.60 | | 0.30 | 27.60 | | | |
| | | sand) Total quantity 15mm cement plaster on the rough side of single or half brick wall of mix : 1:5 (1 cement: 5 fine sand) Total quantity Sand Filling Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. | 20.00 | 4.60 | 1.55 | 0.30 | 27.60 4561.34 | | | |

ESTIMATE OF STORM WATER DRAIN

ROAD STRECH FROM BLOOM CHOWK TO MADAN MAHAL POLICE STATION

LENGTH - 1051 METERS

| S No. | UADD SOR | LENGTH - 1051 METERS | | | | |
|-------|---------------|--|-------------------------|------|--------------|------------|
| | ITEM NO | Descriptions of Item | Quantity | Unit | Rate | Amount |
| | 2.9.1, Vol II | Excavation work in foundation trenches or drains | | | | |
| | | not exceeding 1.5 m in width or 10 sqm on plan | | | | |
| | | including dressing of sides and ramming of | | | | |
| 1 | | bottoms lift upto 1.5 m, including getting out the | | | | |
| | | excavated soil and disposal of surplus excavated | | | | |
| | | soils as directed, within a lead of 50m. | | | | |
| | 2.9.1 | Ordinary rock Cum 202.00 | 1681.60 | | | |
| | | At Junction | 400.00 | | | |
| | | Total quantity | 2081.60 | cum | 202.00 | 420483.20 |
| | | Supplying and filling in plinth under floors | | | | |
| 2 | | including, watering, ramming consolidating and | | | | |
| | 2.27.1 Vol II | dressing complete. | | | | |
| | 2.27.1 | Crusher Stone Dust | 168.16 | | | |
| | | At Junction | 40.00 | | | |
| | | Total quantity | 208.16 | cum | 628.00 | 130724.48 |
| 3 | 4.1.2 Vol II | Cement Concrete M-20 (Duct) | | | | |
| | | Providing and laying Plain / Reinorced cement | | | | |
| | | concrete (mixed in concrete mixture) RCC | | | | |
| | | Grade | | | | |
| | | M 15 with 20mm maxumum size of aggregate. | | | | |
| | | P.C.C Bed | 168.16 | | | |
| | | | 40.00 | | | |
| | | Total quantity | 208.16 | cum | 4154.00 | 864696.64 |
| | 5.1.1 Vol II | | | | | |
| | | | | | | |
| | | Providing and laying in position machine batched, | | | | |
| | | machine mixed and machine vibrated design mix | | | | |
| | | cement concrete of specified grade for reinforced | | | | |
| | | cement concrete work including pumping of | | | | |
| | | concrete to site of laying but excluding the cost of | | | | |
| 4 | | centering, shuttering, finishing and | | | | |
| - | | reinforcement. including Admixtures in | | | | |
| | | recommended proportions as per IS 9103 to | | | | |
| | | accelerate, retard setting of concrete, improve | | | | |
| | | workability without impairing strength and | | | | |
| | | durability as per direction of | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | |
| | | cement concrete by using 410 kg. of cement per | | | | |
| | | cum of concrete. All work up to floor 2 level. | | | | |
| | | Along Road | | | | |
| | | RCC Base 100 MM Thick | 168.16 | | + | |
| | | R.C.C. Wall 100 MM Thick | 273.26 | | | |
| | | At Junction | | | \downarrow | |
| | | RCC Base 100 MM Thick | 80.00 | | + | |
| | | | | | | |
| | | R.C.C. Wall 100 MM Thick Total quantity | 130.00 651.42 | cum | 5245.00 | 3416697.90 |

| 5 | Vol II 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) | | | | |
|---|----------------|--|----------|-----|---------|------------|
| | | Along Road | | | | |
| | | RCC Pre Cast Grating as Cover Drain | 168.16 | | | |
| | | At Junctions | | | | |
| | | RCC Pre Cast Grating as Cover Drain | 80.00 | | | |
| | | Total quantity | 248.16 | cum | 6524.00 | 1618995.84 |
| | | | | | | |
| 6 | 5.20.6 Vol II | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. | | | | |
| | 5.20.6 | Taking average weight for estimate (Payable as actual design & weight calculations) Total quantity | 38352.35 | kg | 60.00 | 2301141.15 |
| | | RCC Pre Cast Grating as Cover Drain | 14610.42 | kg | 60.00 | 876625.20 |
| | | | | | | |
| 7 | 20.1.1 Vol II | Form work for Duct Centering and shuttering including strutting, propping etc.and removal of form for : | | | | |
| | 20.1.1 | Foundations, footings, bases of columns, etc. For | | | | |
| | 20.1.1 | mass concrete. | | | | |
| | | Along Road R.C.C. wall outer | 2732.60 | | ┥ | |
| | | R.C.C. wall inner | 2732.60 | | | |
| | | At Junction | 2132.00 | | | |
| | | R.C.C. wall outer | 1300.00 | | ┨ ┨ | |
| | | R.C.C. wall inner | 1300.00 | | ┨ ┨ | |
| | | Total quantity | 8065 | sqm | 138.00 | 1112997.60 |
| | | | | | | |

| | | ESTIMATE OF PEDESTRIA | | | | |
|-------|-------------------------|--|-----------|---------|------|-----------|
| | | STRECH FROM BLOOM CHOWK TO MADA | N MAHAL F | | - | |
| S No. | UADD SOR | Descriptions of Item | Ouentitu | Rate | Unit | Amount |
| 1 | ITEM NO 3.1, Vol III | Excavation | Quantity | | | |
| 1 | 5.1, VOI III | Excavation Excavation for roadway in soil including | | | | |
| | | loading in truck for carrying of cut earth to | | | | |
| | | embankment site with all lifts and lead | | | | |
| | | upto1000 metres and as per relevant | | | | |
| | | clauses of section-300 | | | | |
| | | Ch 0 - 1470 | 2627.50 | | | |
| | | At Junctions | 625.00 | | | |
| | | Total quantity | 3252.50 | 98.00 | cum | 318745.0 |
| | | | | | •••• | |
| 2 | 3.11, Vol III | Earthwork | | | | |
| | - , - | 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 then 7% i/c all lead & lifts i/c | | | | |
| | | excavation, cost of watering, mpaction 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. | | | | |
| | | | | | | |
| | | Along Road | 1576.50 | | | |
| | | At Junction | 375.00 | | | |
| | | Total quantity | 1576.50 | 272.00 | cum | 428808.0 |
| 3 | 4.1.5 Vol II | Cement Concrete M - 10 | | | | |
| | | Providing and laying in position cement | | | | |
| | | concrete in foundation Up to plinth level. | | | | |
| | | Cement concrete grade M-10 (Nominal Mix) | | | | |
| | | with 40 mm maximum size of stone | | | | |
| | | aggregate | | | | |
| | | Footpath M - 10 Along Road | 788.25 | | | |
| | | At junction | 187.50 | | | |
| | | Total quantity | 975.75 | 3528.00 | Sqm | 3442446.0 |
| | | | | | | |
| 4 | 5.1. Vol II | | | | | |
| | | Providing and laying in position specified | | | | |
| | | grade of reinforced cement concrete | | | | |
| | | excluding the cost of centering, shuttering, | | | | |
| | | finishing and reinforcement - All work up to | | | | |
| | | plinth level : | | | | |
| | | Cement concrete grade M-20 (Nominal Mix) | | | | |
| | | with 20 mm maximum size of stone | | | | |
| | | aggregate. | | | | |
| | | Total quantity | 53.40 | 4728.00 | Sqm | 252475.2 |

| | | Reinforcement for R.C.C. work including | | | | |
|---|------------------------|---|-------------------|--------|-------|------------|
| | | straightening, cutting, bending, placing in | | | | |
| | | position and binding all complete. | | | | |
| - | | Thermo-Mechanically Treated bars | | | | |
| | | Total Weight of steel KG- | 2515.14 | 60 | Kg | 150908.40 |
| | | | | | 0 | |
| 5 | 11.29 | Flag Stone | | | | |
| | | 40 mm thick rubbed local Flag stone flooring | | | | |
| | | over 20 mm (average) thick base of cement | | | | |
| | | mortar 1:5 (1 cement :5 coarse sand) with | | | | |
| | | joints 3mm thick, side buttered with cement | | | | |
| | | mortar 1:2 (1 cement : 2 stone dust) | | | | |
| | | admixed with pigment to match the shade | | | | |
| | | of stone and pointing with same mortar | | | | |
| | | (minimum size of kota stone 0.25 sqm) | | | | |
| | | Along Road | | | | |
| | 11.30.1 | Red sand stone | 2160.00 | 513.00 | Sqm | 1108080.00 |
| | 11.30.2 | White sand stone | 1400.00 | 532.00 | Sqm | 744800.00 |
| | -1.00.2 | At Junction | 2.00.00 | 552.00 | ~~~ | , |
| | 11.30.1 | Red sand stone | 500.00 | 513.00 | Sqm | 256500.00 |
| | 11.30.2 | White sand stone | 500.00 | 532.00 | Sqm | 266000.00 |
| | | | | | | |
| | 11.20 Vol II | Chequerred precast cement concrete tiles | | | | |
| | | 18-20mm thick in footpath & courtyard | | | | |
| | | jointed with neat cement slurry mixed with | | | | |
| _ | | pigment to match the shade of tiles | | | | |
| 6 | | including rubbing and cleaning etc. | | | | |
| | | complete on 20 mm thick | | | | |
| | | bed of cement mortar 1:4 (1 cement: 4 coarse sand). | | | | |
| | | coarse sand). | | | | |
| | | Along Road | | | | |
| | 11.20.3 | Dark shade using ordinary cement. | 890.00 | | | |
| | | At junction | | | | |
| | | Dark shade using ordinary cement. | 250.00 | | | |
| | | | 1140.00 | 616.00 | SqM | 702240.00 |
| | 0.1. \/al.111. ma | Kauk Stana | | | | |
| 7 | 8.1, Vol III, pg 69 | Kerb Stone | | | | |
| | 05 | Construction of cement concrete kerb with | | | | |
| | | top and bottom width 115 and 165 mm | | | | |
| | | respectively, 250 mm high in M 20 grade | | | | |
| | | PCC on M-10 grade foundation 150 mm | | | | |
| | | thick, foundation having 50 mm projection | | | | |
| | | beyond kerb stone, kerb stone laid with | | | | |
| | | kerb laying machine, foundation concrete | | | | |
| | | laid manually, all complete and as per clause | | | | |
| | | 408 of specifications. | | | | |
| | | A Using Concrete Mixer | | | | |
| | | at lunction | 1700.00 | | | |
| | - | at Junction at Junction | 1780.00 500.00 | | | |
| | | | 2280.00 | 187.00 | meter | 426360.00 |
| | | | | 207100 | TOTAL | 8097362.60 |
| | | | | | | 0007002.00 |

| | | ESTIMATE OF ROAD MARKING, STREET FURNIT | URES & PI | ANTAT | ION | |
|-------|------------------------|--|-----------------|--------------------|------|----------------------|
| | | ROAD STRECH FROM BLOOM CHOWK TO MADAN M LENGTH - 1051 METERS | AHAL POLIC | E STATIC | DN | |
| S No. | UADD SOR ITEM NO | Descriptions of Item | Measurem ent | Rate | Unit | Amount |
| | | | Quantity | | | |
| 1 | Item 8.10 Vol III | Road Marking | | | | |
| | VOLIII | Solid Lines in White Colour | | | | |
| | | Road Marking with Hot Applied Thermoplastic Compound | | | | |
| | | with Reflectorising Glass Beads on Bituminous Surface | | | | |
| | | (Providing and laying of hot applied thermoplastic | | | | |
| | | compound 2.5 mm thick including reflectorising glass beads @ 250 | | | | |
| | | gms per sqm area, thickness of 2.5 mm is exclusive of | | | | |
| | | surface applied glass beads as per IRC:35 .The finished | | | | |
| | | surface to be level, uniform and free from streaks and | | | | |
| | | holes and as per relevant clauses of section-800. | | | | |
| | | Solid Lines in White Colour | 170.00 | | | |
| | | Brocken Lines in White Colour | 85.00 | | | |
| | | Stop Lines in White Colour | 25.50 | | | |
| | | Applying Zebra Crossing | 350.00 | 000.00 | C | 567450.00 |
| | | | 630.50 | 900.00 | Sqm | 567450.00 |
| 2 | Item 8.8 Vol III | Painting lines, dashes, arrows etc | | | | |
| | | 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, | | | | |
| | | demarcation at site and traffic control as per relevant | | | | |
| | | clauses of section-800 & I.R.C67 including cost of paint etc. complete. | 425.00 | 70.00 | Sqm | 29750.00 |
| | | | | | | |
| 3 | Item No 8.3 Vol III | Signages | | | | |
| | | | | | | |
| | | Providing and fixing of retro- reflectorised cautionary, | | | | |
| | | mandatory and informatory sign as per IRC :67 made of | | | | |
| | | encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick | | | | |
| | | supported on a mild steel angle iron post 75 mm x 75 mm x | | | | |
| | | 6 mm (height from crown level of the road and bottom of | | | | |
| | | the sign board shall not be less than 1.5 m.) 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 including | | | | |
| | | painting of vertical post as per specification. | | 2745 25 | NL | 40000 00 |
| | - | 90 cm equilateral triangle 80 cm x 60 cm rectangular | 5.00 10.00 | 3715.00 4537.00 | | 18575.00 45370.00 |
| | | | 10.00 | | 1403 | |
| | | | | | | |
| | | Road Delineators (Supplying and installation of delineators | | | | |
| | | (road way indicators, hazard markers, object markers), 80- 100 cm high above ground level, painted black and white in | | | | |
| 4 | | 15 cm wide stripes, fitted with 80 x 100 mm rectangular or | | | | |
| - | | 75mm dia circular reflectorised panels at the top, buried or | | | | |
| | | pressed into the ground and confirming toIRC-79 and the | | | | |
| | | drawings as per relevant clauses of section-800 of | | | | |
| | 8.12 Vol III | specifications. | | | | |

| | | | 40.00 | 292.00 | each | 11680.00 |
|---|------------------------|--|---------|--------|-------|-------------------------|
| | | | | | | |
| 5 | | Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part | | | | |
| | 8.20 Vol III | 4:1973) | | | | |
| | | | 40.00 | 292.00 | each | 11680.00 |
| 6 | 11.1 Vol III | Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart) | 1200.00 | 230.00 | Meter | 276000.00 |
| | | | | | | |
| 7 | 11.2 Vol III | Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge mannure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year) | 60.00 | 488.00 | Nos | 29280.00 |
| 8 | 23.15 MP PWD SOR | Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture mannuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately). | | | | |
| | 23.15.1 | Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height. | 100.00 | 645 | each | 64500.00 |
| | 23.15.2 | Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m) | 1200.00 | 33 | each | 39600.00 |
| 9 | 11.5 vol-3 | Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves | 60.00 | 2170 | azch | 120740.00 |
| | | bolted together) | 60.00 | 21/9 | each | 130740.00 1224625.00 |

ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION LENGTH 1132 METERS

SUMMARY SHEET

| | SUMMARY SHEET | | | | | | |
|--------|--------------------------------|-------------|--|--|--|--|--|
| Sr No. | Item Description | Amount | | | | | |
| 51 NO. | | (In Rs.) | | | | | |
| 1 | ROAD | 25526550.04 | | | | | |
| 2 | UTILITY DUCT | 42222037.09 | | | | | |
| 3 | STORM WATER DRAIN | 9867014.20 | | | | | |
| 4 | PEDESTARIAN TRACK | 7707176.20 | | | | | |
| 5 | SIGNAGES, MARKING, LANDSCAPING | 1378780.00 | | | | | |
| | TOTAL | 86701557.53 | | | | | |

| | | ESTIMATE OF RC | DAD | | | |
|-------|------------------------|---|----------|---------|--------|---------------|
| | ROA | D STRECH FROM MADAN MAHAL POLICE S | | RANITAA | L JUNC | ΓΙΟΝ |
| S.No. | UADD SOR ITEM NO | Descriptions of Item | | Rate | Unit | Amount in Rs. |
| 1 | 22(1) | Dismantling | Quantity | | | |
| T | 2.3, (i) | Dismanting | | | | |
| | | 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 lifts and lead 1000 meter. | | | | |
| | | Cement Concrete Grade M-15 & M-20 | 218.04 | 234.00 | cum | 51021.36 |
| 2 | 2.40 a) | Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200. Bituminous courses taking 10% of Total | 2207.40 | | | |
| | a) | Bituminous courses | 2207.40 | 358.00 | cum | 79024.92 |
| | aj | Biturninous courses | 220.74 | 558.00 | cum | 75024.52 |
| 3 | 2.5 vol III | Dismantling of cement concrete pavement i/c breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal ofdismantled materials up to a lead upto 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200. | 2.98 | 716.00 | cum | 2130.82 |
| | | | | | | |
| 4 | 2.7 vol II | Dismantling kerb stone by manual means and disposal of dismantled material with all lifts and up to a lead upto 1000 meter and as per relevant clauses of section-200. | 326.00 | 6.00 | m | 1956.00 |
| | | Removal of telephone / Electric poles | | | | |
| 5 | | including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 | | | | |
| | 2.12 vol II | meter and stacking the serviceable and unserviceable material separately. | 33.00 | 90.00 | each | 2970.00 |

| 6 | 3.1, Vol III | Excavation | | | | |
|---|--------------|---|---------|--------|-----|-----------|
| | , | Excavation for roadway in soil including | | | | 1 |
| | | loading in truck for carrying of cut earth to | | | | |
| | | embankment site with all lifts and lead | | | | |
| | | upto1000 metres and as per relevant clauses | | | | |
| | | of section-300 | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 1132m, = 1132m | 1664.04 | | | |
| | | At Junctions | 183.75 | | | |
| | | Total quantity | 1847.79 | 98.00 | cum | 1945.79 |
| | | | | | | |
| _ | 3.11, Vol | | | | | |
| 7 | ш | Earthwork | | | | |
| | | | | | | |
| | | | | | | |
| | | 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 | | | | |
| | | then 7% i/c all lead & lifts i/c excavation, cost | | | | |
| | | of watering, mpaction 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. | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 1132m, = 1132m | 792.40 | | | |
| | | At Junctions | 87.50 | | | |
| | | Total quantity | 879.90 | 272.00 | cum | 239332.80 |
| | | | | | | |
| _ | 4.8(a) I | | | | | |
| 8 | Vol III | Crusher Run Macadam | | | | |
| | | 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) | | | | |
| | | For 53 mm maximum size | | | | |
| | 1 | For Widening of Carriageway | | | | |
| | 1 | Ch. 0 to 1132m, = 1132m | 475.44 | | | |
| | 1 | At Junctions | 52.50 | | | |
| | 1 | Total quantity | 527.94 | 833.00 | cum | 439774.02 |
| | | | | | | |
| | | | | | 1 | |
| 9 | | - | | | | |

| , , , , , , , , , , , , , , , , , , , | | 1 | T | | |] |
|---------------------------------------|-------------|--|---------------------|--------|-----|-----------|
| | | | | | | |
| | | | | | | |
| | | 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. | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 1132m, = 1132m | 396.20 | | | |
| | | At Junctions | 43.75 | | | |
| | | Total quantity | 439.95 | 951.00 | cum | 418392.45 |
| | | | | | | |
| 10 | | | Т | _ | | |
| 10 | 5.1 Vol III | Primer Coat | | | | |
| | | | Т | _ | | |
| | | 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. | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 1132m, = 1132m | 1584.80 | | | |
| | | At Junctions | 175.00 | | | |
| | | Total quantity | 1759.80 | 26.00 | Sqm | 45754.80 |
| | | | | | | |
| 11 | 5.2 (i) Vol | | | | | |
| | | Tack Coat | | | | |
| | | | | | | |
| | | 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 | | | | |
| | | @0.25 kg per sqm (normal bituminous | | | | |
| | | surfaces) | 4 - 1 | | | |
| | | for bc 50mm | 15134.40 | | | |
| | | at junctions | 3600.00 | | | |
| | | Total quantity | 18734.40 | 9.00 | Sqm | 168609.60 |
| | | @0.30 kg per sqm (dry & hungry bituminous | | | | |
| | | surfaces/granular surfaces treated with | | | | |
| | | primori | | | | |
| | | primer) | | | | |
| | | on existing road for DBM | 14716.00 | | | |
| | | on existing road for DBM On existing road for BC | 14716.00 | | | |
| | | on existing road for DBM On existing road for BC widening part | | | | |
| | | on existing road for DBM On existing road for BC widening part At Junctions | 14716.00 1584.80 | | | |
| | | on existing road for DBM On existing road for BC widening part | 14716.00 | | | |

| | | widening part | 175.00 | | | |
|-----|---------------------|--|-----------------|---------|-----|-------------|
| | | Total quantity | 34441.80 | 11.00 | sqm | 378859.80 |
| | | | | | • | |
| 4.9 | 5.6 (i) Vol | | | | | |
| 12 | ш | Dense Bituminous Macadam | | | | |
| | | | | | | |
| | | 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) | | | | |
| | | cum 7161.00) | | | | |
| | | On Existing Road | 1471.60 | | | |
| | | widening part | 158.48 | | | |
| | | At Junctions | | | | |
| | | On Existing Road | 162.50 | | | |
| | | widening part | 325.00 | | | |
| | | Total quantity | 2117.58 | 7161.00 | cum | 15163990.38 |
| | F 0 (1.1) | | | | | |
| 13 | 5.8 (iv) Vol III | Bituminous Concrete | | | | |
| | VOLIII | Bituminous concrete | | | | |
| | | | | | | |
| | | 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 | | | | |
| | | On Existing Pood | E00 CA | | | |
| | | On Existing Road widening part | 588.64 63.39 | | | |
| | | At Junctions | 03.35 | | | |
| | | On Existing Road | 65.00 | | | |
| | | widening part | 130.00 | | | |
| | | Total quantity | 847.03 | 8226.00 | cum | 6967685.23 |
| | | . , | | | | |

| | Total | | | | | 25526550.04 |
|----|--------------------|--|---------|---------|-------|-------------|
| | | | 117.73 | 5396.00 | | 635260.29 |
| | | taking 20% of existing road | 588.64 | | | |
| | 5.4 | per relevant clauses of section-500. | | | | |
| | | compaction complete in all respects and as | | | | |
| | | clauses 501.6 and 501.7 to achieve the desired | | | | |
| | | grade, level and alignment and rolled as per | | | | |
| | | mechanical paver finisher to the required | | | | |
| | | grading-1 premixed prepared surface with | | | | |
| | | with hot mix plant using crushed aggregates of | | | | |
| | | corrective course with bituminous macadam | | | | |
| | | Providing and laying levelling course/profile | | | | |
| | | | | | | |
| | | | | | | |
| | 2.27.1 | Crusher Stone Dust | 118.86 | 628.00 | Cum | 74644.08 |
| | | 1 | 118.86 | | | |
| | 2.27 voll | and dressing complete. | | | | |
| 16 | 2 27 | including, watering, ramming consolidating | | | | |
| | | Supplying and filling in plinth under floors | | | | |
| | | | | | | |
| | | | 118.86 | 3595.00 | Cum | 427301.70 |
| | | | 118.86 | | | |
| | 4.1.4 | Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate | | | | |
| | | | | | | |
| | 4.1 vol II | of centering and shuttering All work up to plinth level. | | | | |
| 15 | | concrete of specified grade excluding the cost | | | | |
| | | Providing and laying in position cement | | | | |
| | | | | | | |
| | | | 2264.00 | 189.00 | meter | 427896.00 |
| | | | 2264.00 | | | |
| | 8.1 (A) Vol III | all complete and as per clause 408 of specifications. | | | | |
| | | kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, | | | | |
| | | foundation having 50 mm projection beyond | | | | |
| 14 | | on M-10 grade foundation 150 mm thick, | | | | |
| | | respectively, 250 mm high in M 20 grade PCC | | | | |
| | | top and bottom width 115 and 165 mm | | | | |
| | | Construction of cement concrete kerb with | | | | |

ESTIMATE OF UTILITY DUCT

ROAD STRECH FROM MADAN MAHAL POLICE STATION TO RANITAAL JUNCTION LENGTH 1132 METERS

| S No.UADD SOR ITEM NODescriptions of ItemMeasurementRateUnitImage: Construction of the structureQuantityImage: ConstructureImage: Constructure< | Amount |
|--|------------|
| Quantity Quantity 1 2.9.1, Vol II Excavation 1 2.9.1, Vol II Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m. 1 Ordinary rock 2 Excavation for Duct 9961.60 | |
| 1 2.9.1, Vol II Excavation | |
| Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.Image: Comparison of the second sec | |
| Excavation work in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.Image: Comparison of the second sec | |
| including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.Image: Constant of the second seco | |
| including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.Image: Constant of the second seco | |
| bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m. Image: Comparison of the excavated soils as directed, within a lead of 50m. Ordinary rock Image: Comparison of the excavation for Duct 9961.60 Image: Comparison of the excavation for Duct 1100.00 Image: Comparison of the excavation of th | |
| excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m. Image: Content of the second secon | |
| soils as directed, within a lead of 50m. soils as directed, within a lead of 50m. Ordinary rock soils as directed, within a lead of 50m. Excavation for Duct 9961.60 Soils as directed, within a lead of 50m. soils as directed, within a lead of 50m. Ordinary rock soils as directed, within a lead of 50m. Excavation for Duct 9961.60 Image: Soils as directed, within a lead of 50m. soils as directed, within a lead of 50m. | |
| Image: Constraint of the second sec | |
| Excavation for Duct 9961.60 1100.00 1100.00 | |
| Excavation for Duct 9961.60 1100.00 1100.00 | |
| Excavation for Duct 9961.60 1100.00 1100.00 | |
| | |
| Total Excavation 11061.60 202.00 cum | |
| | 2234443.20 |
| | |
| 2 2.27.1 Vol II Filling | |
| Supplying and filling in plinth under floors | |
| including, watering, ramming consolidating and | |
| dressing complete. | |
| 2.27.1 Crusher Stone Dust | |
| For Duct 452.80 | |
| 50.00 | |
| Total 502.80 628.00 cum | 315758.40 |
| 3 4.1.1 Vol II Cement Concrete M-15(Duct) | |
| Providing and laying in position cement concrete | |
| of specified grade excluding the cost of centering | |
| and shuttering All work up to plinth level. | |
| | |
| M 15 with 20mm maxumum size of aggregate. | |
| P.C.C Bed 452.80 | |
| At Junctions 50.00 | |
| 502.80 4154.00 cum | 2088631.20 |
| | |

| | 5.1.1 Vol II | Providing and laying in position machine batched, | | | | |
|---|--------------|---|---------|---------|-----|-------------|
| | | machine mixed and machine vibrated design mix | | | | |
| | | cement concrete of specified grade for reinforced | | | | |
| | | cement concrete work including pumping of | | | | |
| | | concrete to site of laying but excluding the cost | | | | |
| | | of centering, shuttering, finishing and | | | | |
| | | reinforcement. including Admixtures in | | | | |
| | | recommended proportions as per IS 9103 to | | | | |
| 4 | | accelerate, retard setting of concrete, improve | | | | |
| | | workability without impairing strength and | | | | |
| | | durability as per direction of | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | |
| | | cement concrete by using 410 kg. of cement per | | | | |
| | | cum of concrete. All work up to floor 2 level. | | | | |
| | | | | | | |
| | | | | | | |
| | | Along Road | | | | |
| | | R.C.C. Base | 628.26 | | | |
| | | R.C.C. Wall | 1086.72 | | | |
| | | Middle RCC wall | 509.40 | | | |
| | | At Junctions | | | | |
| | | R.C.C. Base | 75.00 | | | |
| | | R.C.C. Wall | 60.00 | | | |
| | | Middle RCC wall | 112.50 | | | |
| | | Total quantity of M20 Concrete | 2471.88 | 5245.00 | cum | 12965010.60 |

| 5 | Vol II 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber | 418.84 | | | |
|---|----------------|---|--------------------|---------|-----|-------------|
| | | Total quantity | 429.48 | 6524.00 | cum | 2801911.21 |
| 6 | 5.20.6 Vol II | Reinforcement for Duct | | | | |
| | | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. | | | | |
| | | Taking average weight for estimate (Payable as actual design & weight calculations) Total | 155234.06 | | | |
| | | 4 | 26971.19 | | | |
| | | | 182205.25 | 60.00 | Kg | 10932315.06 |
| | | | 102203.23 | 00.00 | 118 | 10552515.00 |
| 7 | 20.1.1 Vol II | Form work for Duct | | | | |
| | | Centering and shuttering including strutting, propping etc.and removal of form for : 20.1.1 Foundations, footings, bases of columns, etc. For mass concrete. | | | | |
| | | Along Road R.C.C. wall outer | 7244.90 | | | |
| | | R.C.C. wall outer R.C.C. wall inner | 7244.80 6792.00 | | | |
| | | R.C.C. Base wall | 679.20 | | | |
| | | Middle Wall | 6792.00 | | | |
| | | At Junction | | | | |
| | | R.C.C. wall outer | 1700.00 | | | |
| | | R.C.C. wall inner | 1600.00 | | | |
| | | R.C.C. Base wall | 150.00 | | | |
| | | Middle Wall | 1500.00 | 400.00 | | 0054004.00 |
| | | Total quantity | 26458.00 | 138.00 | cum | 3651204.00 |
| 8 | 6.1 Vol II | Brick work with well burnt chimney bricks in bulls patent trench kiln manifactured by ghol process,crushing strength not less than 40kg /sqcm and water absorption not more than 15% in foundation and plinth. | | | | |

| | | Cement mortar 1:6 (1 cement : 6 coarse sand) | 6.07 | 4232.00 | cum | 25696.70 |
|----|---------------|--|--------------------|---------|-----|------------|
| | | | | | | |
| | | 15mm cement plaster on the rough side of single | | | | |
| 9 | 13.2 Vol II | or half brick wall of mix : | | | | |
| | | 1:5 (1 cement: 5 fine sand) | 30.36 | 119.00 | cum | 3612.84 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 10 | 2.27.2 Vol II | Sand Filling | | | | |
| 10 | 2.27.2 Vol II | Sand Filling Supplying and filling in plinth under floors | | | | |
| 10 | 2.27.2 Vol II | 5 | | | | |
| 10 | 2.27.2 Vol II | Supplying and filling in plinth under floors | | | | |
| 10 | 2.27.2 Vol II | Supplying and filling in plinth under floors including, watering, ramming consolidating and | 4912.88 | | | |
| 10 | 2.27.2 Vol II | Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. | 4912.88 1085.00 | | | |
| | 2.27.2 Vol II | Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete. | | 1201.00 | cum | 7203453.88 |

| | | ESTIMATE OF STORM W | ATER DRAI | N | | |
|----------|---------------------|--|-------------------------|----------|----------|------------|
| | | ROAD STRECH FROM MADAN MAHAL POLICE | STATION TO I | RANITAAL | JUNCTION | |
| | | LENGTH 1132 ME | TERS | | | |
| S No. | UADD SOR ITEM NO | Descriptions of Item | Measurement Quantity | Unit | Rate | Amount |
| | 2.9.1, Vol II | Excavation work in foundation trenches or drains | Quantity | | | |
| | , | not exceeding 1.5 m in width or 10 sqm on plan | | | | |
| | | including dressing of sides and ramming of | | | | |
| 1 | | bottoms lift upto 1.5 m, including getting out the | | | | |
| | | excavated soil and disposal of surplus excavated | | | | |
| | | soils as directed, within a lead of 50m. | | | | |
| | | | | | | |
| | 2.9.1 | Ordinary rock | 1811.20 | | | |
| | | At Junction | 200.00 | | 202.00 | 406262.40 |
| | | Supplying and filling in plinth under floors | 2011.20 | cum | 202.00 | 406262.40 |
| 2 | 2.27.1 Vol | including, watering, ramming consolidating and | | | | |
| 2 | 2.27.1 VOI | dressing complete. | | | | |
| | 2.27.1 | Crusher Stone Dust | 181.12 | | | |
| | 2.27.2 | At Junction | 20.00 | | | |
| | | | 201.12 | cum | 628.00 | 126303.36 |
| | L | | | | | |
| 3 | 4.1.2 Vol II | Cement Concrete M-20 (Duct) | | | | |
| | | Providing and laying Plain / Reinorced cement | | | | |
| | | concrete (mixed in concrete mixture) RCC | | | | |
| | | Grade | | | | |
| | | M 15 with 20mm maxumum size of aggregate. | | | | |
| | | P.C.C Bed | 181.12 | | | |
| | | | 20.00 | | | |
| | | | 201.12 | cum | 4154.00 | 835452.48 |
| | 5.1.1 Vol II | Providing and laying in position machine | | | | |
| | | batched, machine mixed and machine vibrated | | | | |
| | | design mix cement concrete of specified grade | | | | |
| | | for reinforced cement concrete work including | | | | |
| | | pumping of concrete to site of laying but | | | | |
| | | excluding the cost of centering, shuttering, | | | | |
| | | finishing and | | | | |
| 4 | | reinforcement. including Admixtures in | | | | |
| | | recommended proportions as per IS 9103 to | | | | |
| | | accelerate, retard setting of concrete, improve | | | | |
| | | workability without impairing strength and durability as per direction of | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | |
| | | cement concrete by using 410 kg. of cement per | | | | |
| | | cum of concrete. All work up to floor 2 level. | | | | |
| | | | | | | |
| | | | | | | |
| | | Cement concrete grade M-20 (Nominal Mix) with | | | | |
| | | 20 mm maximum size of stone aggregate. Along Road | | | ├ | |
| | | RCC Base 100 MM Thick | 181.12 | | <u> </u> | |
| | | R.C.C. Wall 100 MM Thick | 294.32 | | <u> </u> | |
| | L | At Junction | 254.52 | | <u> </u> | |
| <u> </u> | | RCC Base 100 MM Thick | 40.00 | | <u>├</u> | |
| <u> </u> | ļ | R.C.C. Wall 100 MM Thick | 65.00 | | | |
| | L | TOTAL QUANTITY OF RCC | 580.44 | cum | 5245.00 | 3044407.80 |
| | | | | | | |

| | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, | | | | |
|---|---------------|---|----------|---------|-----|------------|
| 5 | | anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick | | | | |
| | | cement plaster 1:3 (1 cement : 3 fine sand) on | | | | |
| | | exposed surfaces complete but excluding cost of | | | | |
| | | reinforcement with Cement concrete grade M-20 | | | | |
| | | (Nominal Mix with 20 mm maximum size of stone | | | | |
| | 5.10 | aggregate) | | | | |
| | | Along Road | | | | |
| | | Precast Grating Cover for Drains | 181.12 | | | |
| | | At Junctions | | | | |
| | | Precast Grating Cover for Drains | 40.00 | | | |
| | | Total quantity | 221.12 | 6524.00 | cum | 1442586.88 |
| | | | | | | |
| | | Reinforcement for R.C.C. work including | | | | |
| 6 | | straightening, cutting, bending, placing in | | | | |
| | | position and binding all complete. | | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars | | | | |
| | | Total Weight of steel KG- | 36451.63 | | | |
| | | Total Weight of steel KG- | 13886.34 | | | |
| | | | 50337.97 | 60.00 | Kg | 3020278.08 |
| | | | | | | |
| 7 | 20.1.1 Vol II | Form work for Duct | | | | |
| | | Centering and shuttering including strutting, | | | | |
| | | propping etc.and removal of form for : | | | | |
| | | Foundations, footings, bases of columns, etc. For | | | | |
| | 20.1.1 | mass concrete. | | | | |
| | | Along Road | | | | |
| | | R.C.C. wall outer | 2943.20 | | | |
| | | R.C.C. wall inner | 2943.20 | | | |
| | | At Junction | | | | |
| | | R.C.C. wall outer | 650.00 | | | |
| | | R.C.C. wall inner | 650.00 | | | |
| | | Total quantity | 7186 | 138 | Sqm | 991723.20 |
| | | TOTAL | | | | 9867014.20 |

| | | ESTIMATE OF PEDESTRIA | N PATH | | | |
|-------|---------------|--|------------|-----------|--------|------------|
| | ROAD ST | RECH FROM MADAN MAHAL POLICE STAT LENGTH 1132 METER | | NITAAL JU | NCTION | |
| S No. | UADD SOR | | leasuremei | Rate | Unit | Amount |
| | ITEM NO | | Quantity | | | |
| 1 | 3.1, Vol III | Excavation | | | | |
| | | Excavation for roadway in soil including | | | | |
| | | loading in truck for carrying of cut earth to | | | | |
| | | embankment site with all lifts and lead | | | | |
| | | upto1000 metres and as per relevant | | | | |
| | | clauses of section-300 | | | | |
| | | Ch 0 - 1132 | 2830.00 | | | |
| | | At Junctions | 312.50 | | | |
| | | Total | 3142.50 | 98.00 | cum | 307965.00 |
| | | | | | | |
| 2 | 3.11, Vol III | Earthwork | | | | |
| | | 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 then 7% i/c all lead & lifts i/c | | | | |
| | | excavation, cost of watering, mpaction 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. | | | | |
| | | clause 505.6. | | | | |
| | | | | | | |
| | | Along Road | 1698.00 | | | |
| | | At Junction | 187.50 | | | |
| | | Total | 1698.00 | 272.00 | cum | 461856.00 |
| 3 | 4.1.5 Vol II | Cement Concrete M - 10 | | | | |
| 3 | 4.1.5 00111 | Providing and laying in position cement | | | | |
| | | concrete in foundation Up to plinth level. | | | | |
| | | Cement concrete grade M-10 (Nominal Mix) | | | | |
| | | with 40 mm maximum size of stone | | | | |
| | | aggregate | | | | |
| | | Footpath M - 10 Along Road | 849.00 | | | 1 |
| | | At junction | 93.75 | | | |
| | | | 942.75 | 3528.00 | Sqm | 3326022.00 |
| | | | | | | |
| | 5.1. Vol II | | Ι Τ | T | | |
| | | Providing and laying in position specified | | | | |
| 4 | | grade of reinforced cement concrete | | | | |
| - | | excluding the cost of centering, shuttering, | | | | |
| | | finishing and reinforcement - All work up to | | | | |
| | | plinth level : | | | | |
| | | Cement concrete grade M-20 (Nominal Mix) | | | | |
| | | with 20 mm maximum size of stone | | | | |
| | | aggregate. | | | | |
| | | | 55.80 | 4728.00 | Sqm | 263822.40 |

| | | Reinforcement for R.C.C. work including | | | | |
|---|------------------|--|---------|--------|-------|------------|
| | | straightening, cutting, bending, placing in | | | | |
| | | position and binding all complete. | | | | |
| | | Thermo-Mechanically Treated bars | | | | |
| | | Total Weight of steel KG- | 2628.18 | 60 | Kg | 157690.80 |
| | | | 2020.10 | 00 | 115 | 137030.80 |
| 5 | 11.29 | Flag Stone | | | | |
| | | 40 mm thick rubbed local Flag stone flooring | | | | |
| | | over 20 mm (average) thick base of cement | | | | |
| | | mortar 1:5 (1 cement :5 coarse sand) with | | | | |
| | | joints 3mm thick, side buttered with cement | | | | |
| | | mortar 1:2 (1 cement : 2 stone dust) | | | | |
| | | admixed with pigment to match the shade | | | | |
| | | of stone and pointing with same mortar | | | | |
| | | (minimum size of kota stone 0.25 sqm) | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | | |
| | | Along Road | | | | |
| | 11.30.1 | Red sand stone | 2240.00 | 513.00 | Sqm | 1149120.00 |
| | 11.30.2 | White sand stone | 1480.00 | 532.00 | Sqm | 787360.00 |
| | | At Junction | | | | |
| | 11.30.1 | Red sand stone | 250.00 | 513.00 | Sqm | 128250.00 |
| | 11.30.2 | White sand stone | 250.00 | 532.00 | Sqm | 133000.00 |
| | | | | | | |
| | 11.20 Vol II | Chequerred precast cement concrete tiles | | | | |
| | | 18-20mm thick in footpath & courtyard | | | | |
| | | jointed with neat cement slurry mixed with | | | | |
| ~ | | pigment to match the shade of tiles | | | | |
| 6 | | including rubbing and cleaning etc. | | | | |
| | | complete on 20 mm thick | | | | |
| | | bed of cement mortar 1:4 (1 cement: 4 | | | | |
| | | coarse sand). | | | | |
| | | Along Road | | | | |
| | 11.20.3 | Dark shade using ordinary cement. | 930.00 | 616.00 | SqM | 572880.00 |
| | | At junction | | | - | |
| | | Dark shade using ordinary cement. | 125.00 | 616.00 | SqM | 77000.00 |
| | | | | | | |
| 7 | 8.1, Vol III, pg | Kerb Stone | | | | |
| | 69 | Construction of compart constrate work with | | | | |
| | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm | | | | |
| | | | | | | |
| | | respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm | | | | |
| | | TECC OF IVE TO BEADE TOURDATION 150 MM | | | | 1 |
| | | _ | | | | |
| | | thick, foundation having 50 mm projection | | | | |
| | | thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with | | | | |
| | | thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete | | | | |
| | | thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause | | | | |
| | | thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. | | | | |
| | | thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause | | | | |
| | | thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. | 1580.00 | | | |
| | | thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer | 1580.00 | | | |
| | | thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer at Junction | | 187.00 | meter | 342210.00 |

| | ESTIN | MATE OF ROAD MARKING, STREET FURNITURE | S & PLA | NTATIC | N | |
|-------|------------------------|---|----------|---------|------|-----------|
| | ROAD | STRECH FROM MADAN MAHAL POLICE STATION TO R LENGTH 1132 METERS | ANITAAL | JUNCTIO | ON | |
| S No. | UADD SOR ITEM NO | Descriptions of Item | | Rate | Unit | Amount |
| | | | Quantity | | | |
| 1 | ltem 8.10 Vol III | Road Marking | | | | |
| | | Solid Lines in White Colour | | | | |
| | | Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800. | | | | |
| | | | | | | |
| | | Solid Lines in White Colour | 209.00 | | | |
| | | Brocken Lines in White Colour | 104.50 | | | |
| | | Stop Lines in White Colour | 41.80 | | | |
| | | Applying Zebra Crossing | 350.00 | | | |
| | | | 705.30 | 900.00 | Sqm | 634770.00 |
| | | | | | | |
| 2 | Item 8.8 Vol III | Painting lines, dashes, arrows etc | | | | |
| | | 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, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of paint etc. complete. | | 70.00 | Sqm | 36575.00 |
| 3 | Item No 8.3 Vol III | Signages | | | | |
| | | Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) 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 including painting of vertical post as per specification. 90 cm equilateral triangle | 5.00 | | | 18575.00 |
| | | 80 cm x 60 cm rectangular | 10.00 | 4537.00 | Nos | 45370.00 |
| | | | | | | |

| | | | - | | - | |
|---|------------------------|---|---------|--------|-------|-----------|
| 4 | 8.12 Vol III | Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80- 100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications. | 40.00 | 292.00 | each | 11680.00 |
| | | | | | | |
| 5 | 8.20 Vol III | Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973) | | | | |
| | | | 40.00 | 292.00 | each | 11680.00 |
| | | | | | | |
| | | | | | | |
| 6 | 11.1 Vol III | Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart) | 1200.00 | 230.00 | Meter | 276000.00 |
| 7 | 11.2 Vol III | Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge mannure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year) | 90.00 | 488.00 | Nos | 43920.00 |
| 8 | 23.15 MP PWD SOR | Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture mannuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately). | | | | |
| | 23.15.1 | Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height. | 100.00 | 645 | each | 64500.00 |
| | 23.15.2 | Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m) | 1200.00 | 33 | each | 39600.00 |

| 9 | 11.5 vol-3 | Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated | | | | |
|---|------------|--|-------|------|------|------------|
| | | as per design in two halves bolted together) | 90.00 | 2179 | each | 196110.00 |
| | | TOTAL | | | | 1378780.00 |

ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH

| | SU | MN | IARY | SHEET |
|--|----|----|------|-------|
|--|----|----|------|-------|

| | SUMMARY SHEET | | | | | |
|--------|--------------------------------|-------------|--|--|--|--|
| Sr No. | Itom Description | Amount | | | | |
| 51 10. | Item Description | (In Rs.) | | | | |
| 1 | ROAD | 25715026.02 | | | | |
| 2 | UTILITY DUCT | 30163498.57 | | | | |
| 3 | STORM WATER DRAIN | 8082073.80 | | | | |
| 4 | PEDESTARIAN TRACK | 6882278.00 | | | | |
| 5 | SIGNAGES, MARKING, LANDSCAPING | 1104567.00 | | | | |
| | TOTAL 719474 | | | | | |

ESTIMATE OF ROAD ROAD FROM STRECH RANITAAL JUNCTION TO BALDEOBAGH

| | UADD SOR | | | | | |
|-------|---------------|---|----------|--------|------|---------------|
| | Vol II & III, | | | | | |
| S.No. | ITEM NO | Descriptions of Item | | Rate | Unit | Amount in Rs. |
| | | | Quantity | | | |
| 1 | 2.3, (i) | Dismantling | | | | |
| | | | | | | |
| | | 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 lifts and | | | | |
| | | lead 1000 meter. | | | | |
| | | Cement Concrete Grade M-15 & M-20 | 260.85 | 234.00 | cum | 61038.90 |
| | | Dismantling of flexible pavements and disposal of | | | | |
| | | dismantled materials up to a lead of 1000 meter, | | | | |
| 2 | | stacking serviceable and unserviceable materials | | | | |
| | | separately | | | | |
| | 2.40 | and as per relevant clauses of section-200. | | | | |
| | | Bituminous courses taking 10% of the total | | | | |
| | | | 1677.00 | | | |
| | | Bituminous courses | 167.70 | 358.00 | cum | 60036.60 |
| | | | | | | |
| | | Dismantling of cement concrete pavement i/c | | | | |
| | | breaking to pieces not exceeding 0.02 cum in | | | | |
| 3 | | volume and stock piling at designated locations and | | | | |
| | | disposal of dismantled materials up to a lead up to | | | | |
| | | 1000 meter, stacking serviceable and unserviceable | | | | |
| | 2.5 vol III | materials separately and as per relevant clauses of section-200. | 01.00 | 710.00 | | 58479.30 |
| | 2.5 V01 111 | Dismantling kerb stone by manual means and | 81.68 | 716.00 | cum | 56475.50 |
| | | disposal of dismantled material with all lifts and up | | | | |
| 4 | | to a lead upto 1000 meter and as per relevant | | | | |
| | 2.7 vol II | clauses of section-200. | | | | |
| | | | 168.00 | 6.00 | m | 1008.00 |
| | | Removal of telephone / Electric poles including | | | | |
| | | excavation and dismantling of foundation concrete | | | | |
| | | and lines under the supervision of concerned | | | | |
| 5 | | department, | | | | |
| | | disposal with all lifts and up to a lead of 1000 meter | | | | |
| | | and stacking the serviceable and unserviceable | | | | |
| | 2.12 vol II | material separately. | | | | |
| | 24.14 | | 15.00 | 90.00 | each | 1350.00 |
| 6 | 3.1, Vol III | Excavation | | | | |
| | | Excavation for roadway in soil including loading in | | | | |
| | | Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site | | | | |
| | | with all lifts and lead upto1000 metres and as per | | | | |
| | | relevant clauses of section-300 | | | | |
| | 1 | For Widening of Carriageway | | | | |
| | | Ch. 0 to 860m, = 860m | 5779.20 | | | |
| | | | 806.40 | | | |
| | 1 | Total | 6585.60 | | cum | 6683.60 |
| | | | | | | |
| - | | | | | | |
| 7 | 3.11, Vol III | Earthwork | | | | |

| 10 5.1 Vol III Primer Coat Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502. Image: Comparison of Comparison o | | | | | | | |
|--|----|--------------|--|---------|--------|----------|------------|
| shoulders, as per clause 305 & its sub-clauses, Where required but with approxeme material/soil like morrum CBR value not less then 7% (c all lead & lifts (if excession, cost of watering, mpaction and maintenance of surface during construction to ensure shoulding & preventing potenting, of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/foltuminous road surface wide clause 305.6. Image: clause 305.3.1) Image: clause 305.6. For Widening of Carriageway Image: clause 305.3.1) Image: clause 305.3.1) Image: clause 305.6. For Widening of Carriageway Image: clause 305.3.1) Image: clause 305.3.1) Image: clause 305.6. For Widening of Carriageway Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Crusher Run Macadam Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Crusher Run Macadam Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Crusher Run Macadam Image: clause 305.2.0. Image: clause 305.2.0. Image: clause 305.2.0. Image: clause 305.7. Crusher Run Macadam See Crusher Run Macadam Image: clause 305.2.0. Image: clause 305.2.0. Image: clause 305.7. Crusher Run Macadam See Crusher Run Base: clause 305.2.0. Image: clause 305.2.0. | | | | | | | |
| shoulders, as per clause 305 & its sub-clauses, Where required but with approxeme material/soil like morrum CBR value not less then 7% (c all lead & lifts (if excession, cost of watering, mpaction and maintenance of surface during construction to ensure shoulding & preventing potenting, of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/foltuminous road surface wide clause 305.6. Image: clause 305.3.1) Image: clause 305.6. For Widening of Carriageway Image: clause 305.3.1) Image: clause 305.3.1) Image: clause 305.6. For Widening of Carriageway Image: clause 305.3.1) Image: clause 305.3.1) Image: clause 305.6. For Widening of Carriageway Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Crusher Run Macadam Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Crusher Run Macadam Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Image: clause 305.6. Crusher Run Macadam Image: clause 305.2.0. Image: clause 305.2.0. Image: clause 305.2.0. Image: clause 305.7. Crusher Run Macadam See Crusher Run Macadam Image: clause 305.2.0. Image: clause 305.2.0. Image: clause 305.7. Crusher Run Macadam See Crusher Run Base: clause 305.2.0. Image: clause 305.2.0. | | | Construction of Embankment/Sub grade/ earth | | | | |
| where required but with approved materials/solid like morum CBR value not less them 7% (r all lead & lifts // excavation, cost of watering, mpaction and maintenance durated auting construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7) shifting etc. complex but excluding scanfrying esting particular/bituminous road surface wide clause 305.6. Image: Complex Subscripts of Su | | | - | | | | |
| like morrum CBX value not less then 7% (c all lead & lifts (i < covariation, cot f valuering, machine ensure sheding & preventing ponding of variant (chause 305.3.6) sharing & drassing (chause 305.3.7) (finking etc. complete but excluding scarshing estitting granular/bituminous road unface vide chause 305.3.6) 272.00 Image: Complete the construction to ensure sheding of Carriageway 2752.00 Image: Complete but excluding scarshing estitting granular/bituminous road unface vide chause 305.3.7) (finking etc. complete but excluding scarshing estitting granular/bituminous road unface vide chause 305.3.6) 272.00 Cum 8 4.8(a) 1 Vol Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam 8 4.8(a) 1 Vol Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam 9 4.8(a) 1 Vol Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam 10 Cruster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam 11 Cruster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam 12 Cruster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam Image: Conster Run Macadam <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | |
| 8 # life i/e excevation, cost of vatering, mgartion and maintence of surface during construction to ensure shedding & preventing ponding of water (fauxe 305.3, 5), sharing & daving construction to ensure shedding & preventing ponding of water (fauxe 305.3, 5), sharing & daving construction to ensure shedding & preventing ponding of water (fauxe 305.3, 5), sharing & daving construction to ensure shedding & preventing end water (fauxe 305.4, 5), sharing & daving end (fauxe 305.4, 5), sharing (fauxe 305.4, 5), shar | | | | | | | |
| and maintenance of surface during construction to ensure sheading & preventing ponding of variance 305.3.7), finishing etc. complete but excluding scarftying existing granular/bituminous road surface wide clause 303.6. Image: Surface during construction to surface during construction to surface during construction to surface during construction to the for Widening of Carriageway Image: Surface during construction to surface during construction with a with ration of carriageway Image: Surface during surface during construction with a with ration of carriageway Image: Surface during construction to surface during construction with a with ration of carriageway Image: Surface during construction surface during construction with a with ration of carriageway Image: Surface during construction to including preventing the Matterial by tipper to surface during construction with a with a during of carriageway Image: Surface during construction surface during construction with a with ration on prepared surface of surface during with vibrater at MM and at a MM and compared surface of granular Base including claring et a surface of granular Base including claring of carriageway Image: Surface of granular Base including claring et relevant clauses of section - 400. Image: Surface during et a surface of granular B | | | | | | | |
| ensure shedding & goverening ponding of water (clause 305, 3), finishing etc. complete but excluding scarthying existing (clause 305, 37), finishing etc. complete but excluding scarthying existing of Carriageway Image: Complete but excluding scarthying existing complexity Image: China Complexity of Carriageway Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity Image: China Complexity </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | |
| Image: solution of the second seco | | | _ | | | | |
| 305.3.7), finithing etc. complete but excluding scartifurg existing granular/bituminous road surface vide clause 305.6. Image: Complete but excluding scartifurg existing granular/bituminous road surface vide clause 305.6. Ch. 0 to 860m, = 860m 2752.00 Total 3136.00 272.00 cum 852992.00 A.8(a)1 Vol III Crusher Run Macadam Crusher Run Macadam 3136.00 272.00 cum 852992.00 Crusher Run Macadam 3136.00 272.00 cum 852992.00 38 | | | | | | | |
| startfying existing granular/bituminous road surface Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface inclusion For Widening of Carriageway 2752.00 Image: starting granular/bituminous road surface inclusion 1 Crusher Run Macadam 272.00 Curm 8 4.8(a) I Vol Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface 8 4.8(a) I Vol Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface 8 Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface 9 4.8(a) I Vol Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface 9 4.5 Vol III VMM Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface 9 4.5 Vol III VMM Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface 9 4.5 Vol III VMM Image: starting granular/bituminous road surface Image: starting granular/bituminous road surface 9 4.5 Vol III VMM Image: starti | | | | | | | |
| wide clause 305.6. - For Widening of Carriageway - at Junctions 384.00 at Junctions 3136.00 at Junctions 3136.00 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | |
| Image: space of the second | | | | | | | |
| ch. 0 to 860m, 880m 2752.00 cm Attactions attactions 3384.00 cm 852992.00 8 4.8(a) 1 Vol III crusher Run Macadam attactions attactions 8 4.8(a) 1 Vol III crusher Run Macadam attactions attactions 9 4.8(a) 1 Vol III 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 wibratory roller to clause 401 to form a layer of sub- base/Base) attactions attactions 6 For Sim maximum size attactions attactions attactions 9 AS Vol III WMM attactions attactions 9 4.5 Vol III WMM attactions attactions 9 4.5 Vol III WMM attaction attactions 10 For Videning of Carriageway attaction attaction 11 Total 1881.60 833.00 cm 12 For Videning, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material With water at UMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with payer in sub - base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density and a spe relevant clauses of section - 400.0 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | |
| at Junctions 384.00 model Total 3136.00 272.00 cum 852992.00 8 4.8(a) I Vol Crusher Run Macadam attack attack attack Crusher Run Macadam Crusher Run Macadam attack attack attack Crusher Run Macadam Crusher Run Macadam attack attack attack Crusher Run Macadam attack attack attack attack Marcel Run Segregate, depositing on a prepared surface by hauling vehicles, spreading and compacting with a motor grader, watering and compacting with a wibratory roller to clause 410 to form a layer of sub- base/Base) attack attack For Sin maximum size for Sin maximum size attack attack attack For Widening of Carriageway for Som, = 860m 1651.20 attack Total 1881.60 833.00 cum 1567372.80 9 4.5 Vol III WMM attack attack 9 4.5 Vol III WMM attack attack 10 bits claying uniform layers with paver in sub - base / base curse on well prepared surface and compacting with withoutory roller to achieve the desired density and as per relevant clauses of section - 400. attack attack 10 5.1 Vol III Primer Coat attack att | | | | 2752.00 | | | |
| Total 3136.00 272.00 cum 852992.00 8 4.8(a) I Vol III Crusher Run Macadam | | | | | | | |
| 8 4.8(a) I Vol III Crusher Run Macadam IIII 8 4.8(a) I Vol III Crusher Run Macadam IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | | | | 272.00 | cum | 852992.00 |
| 8 III Crusher Run Macadam Image: Crusher Run | | | | 5150.00 | 272.00 | cum | 852552.00 |
| 8 III Crusher Run Macadam Image: Crusher Run | | 4 8(a) I Vol | | | | | + |
| 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 wbratory roller to clause 410 to form a layer of sub- base/Base) For Sim maximum size | 8 | | Crusher Run Macadam | | | | |
| 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) - For S3 mm maximum size - Ch. 0 to 860m, = 860m 1651.20 Total 1881.60 9 4.5 Vol III WMM - Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plut 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 vioratory roller to achieve the desired density and as per relevant clauses of section -400. - For Widening of Carriageway - - Ch. 0 to 860m, = 860m 1376.00 - For Widening of Carriageway - - Ch. 0 to 860m, = 860m 1376.00 - Total 158.00 951.00 - Distribution of carriageway - - - Widening of Carriageway - - - Ch. 0 to 860m, = 860m 1376.00 - - Distro diguantity 1588.00 951.00 - Dist Vol III< | | | | | | | |
| 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) - For S3 mm maximum size - Ch. 0 to 860m, = 860m 1651.20 Total 1881.60 9 4.5 Vol III WMM - Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plut 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 vioratory roller to achieve the desired density and as per relevant clauses of section -400. - For Widening of Carriageway - - Ch. 0 to 860m, = 860m 1376.00 - For Widening of Carriageway - - Ch. 0 to 860m, = 860m 1376.00 - Total 158.00 951.00 - Distribution of carriageway - - - Widening of Carriageway - - - Ch. 0 to 860m, = 860m 1376.00 - - Distro diguantity 1588.00 951.00 - Dist Vol III< | | | Crusher Run Macadam Base (Providing crushed | | | | |
| 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 subbase/Base/Base) Image: spreading and compacting graded For Widening of Carriageway Image: spreading and compacting graded Image: 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 oratory roller to achieve the desired density and as per relevant clauses of section - 400. For Widening of Carriageway Image: spreading and per velowent clauses of section - 400. Image: spreading and applying primer coat with bitumen emulsion on prepared surface and compacting with oratory roller to achieve the multiple of the spread surface of granular Base including clearing or road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical mix plant carriage or 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. Image: spreading and spreading and compacting with bitumen emulsion on prepared surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502. Image: spreading and spre | | | | | | | |
| motor grader, watering and compacting with a vibrator roller to clause 410 to form a layer of sub-base/Base) Image: Compact of the sub-base/Base) For S3 mm maximum size Image: Ch. 0 to 860m, = 860m 1651.20 Ch. 0 to 860m, = 860m 1651.20 Image: Ch. 0 to 860m, = 860m Jotal 1881.60 833.00 cum 15673727.80 9 4.5 Vol III WMM Image: Ch. 0 to 860m, a garegate to wet mix macadam specification including premixing the Material with water a OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with parer 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. Image: Ch. 0 to 860m, a 860m 10 5.1 Vol III Prioriding and applying primer coat with bitumen emulsion on prepared surface and compacting strate of granular Base including clearing of road surface of | | | | | | | |
| wibratory roller to clause 410 to form a layer of sub- base/Base) Image: Comparison of the second secon | | | | | | | |
| base/Base) Image: Control of Carriageway Image: Charriageway Image: Charriageway Image: Charriageway Image: Charriageway </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | |
| For 53 mm maximum size Image: constraint of constraint | | | | | | | |
| For Widening of Carriageway 1651.20 Ch. 0 to 860m, = 860m 1651.20 Total 230.40 Total 1881.60 9 4.5 Vol III WMM | | | | | | | |
| Ch. 0 to 860m, = 860m 1651.20 Total 230.40 9 4.5 Vol III WMM Image: Constraint of the state of the | | | | | | | |
| Total 230.40 Total 1881.60 9 4.5 Vol III WMM Image: Constraint of the second secon | | | | 1651.20 | | | |
| Total 1881.60 833.00 cum 1567372.80 9 4.5 Vol III WMM Image: Constraint of the state of th | | | | | | | |
| 9 4.5 Vol III WMM 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. Event For Widening of Carriageway 0 Ch. 0 to 860m, = 860m 1376.00 Total quantity 1568.00 951.00 cum 10 5.1 Vol III Primer Coat Providing and applying primer coat with bitumen emulsion on prepared surface and spraying primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502. 5504.00 For Widening of Carriageway 0 0 10 5.1 vol III Primer Coat 0 10 5.1 Vol III Primer Coat 0 10 5.1 Vol III Primer Coat 0 11 5.2 (i) Vol 0 13076.00 | | | Total | | 833.00 | cum | 1567372.80 |
| 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. | | | | | | | |
| 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.Image: Character of CarriagewayCh. 0 to 860m, = 860m1376.00Image: Character of CarriagewayTotal quantity1568.00951.00Image: Character of CarriagewayImage: Character of CarriagewayImag | 9 | 4.5 Vol III | WMM | | | | |
| 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.Image: Character of CarriagewayCh. 0 to 860m, = 860m1376.00Image: Character of CarriagewayTotal quantity1568.00951.00Image: Character of CarriagewayImage: Character of CarriagewayImag | | | | | | | |
| 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.Image: Character of CarriagewayCh. 0 to 860m, = 860m1376.00Image: Character of CarriagewayTotal quantity1568.00951.00Image: Character of CarriagewayImage: Character of CarriagewayImag | | | Providing, laying, spreading and compacting graded | | | | |
| 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.Image: section - 400.Ch. 0 to 860m, = 860m1376.00Image: section - 400.Total quantity1568.00951.00Providing 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.Image: section - 400.For Widening of CarriagewayImage: section - 400.Image: section - 400.Stotion 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.Image: section - 400.Image: section - 502.Image: section - 400.Image: section - 400.Image | | | | | | | |
| 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.Image: Constraint of the sector of | | | | | | | |
| 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. For Widening of Carriageway Ch. 0 to 860m, = 860m 1376.00 Total quantity 1568.00 951.00 1491168.00 10 5.1 Vol III Primer Coat Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and spraying primer at the rate of 0.75 kg/sqn using mechanical / Manual means and as per relevant clauses of section 502. Image: Coat surface and sp | | | in mechanical mix plant carriage of mixed Material | | | | |
| and compacting with vibratory roller to achieve the desired density and as per relevant clauses of section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Imag | | | | | | | |
| and compacting with vibratory roller to achieve the desired density and as per relevant clauses of section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Image: Section - 400. Image: Section - 400. Image: For Widening of Carriageway Image: Section - 400. Imag | | | in sub - base / base course on well prepared surface | | | | |
| desired density and as per relevant clauses of section - 400. Image: section - 400. Image: section - 400. For Widening of Carriageway Image: section - 400. Image: section - 400. Ch. 0 to 860m, = 860m 1376.00 Image: section - 400. Image: section - 400. 192.00 Image: section - 400. Image: section - 400. 192.00 Image: section - 400. Image: section - 400. 192.00 Image: section - 400. Image: section - 400. 192.00 Image: section - 400. Image: section - 400. 192.00 Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. Image: section - 400. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| For Widening of CarriagewayImage: constraint of the second se | | | | | | | |
| Ch. 0 to 860m, = 860m 1376.00 Image: Ch. 0 to 860m, = 860m 192.00 Total quantity 1568.00 951.00 Image: Ch. 0 to 860m, = 860m 1568.00 951.00 Image: Ch. 0 to 860m, = 860m 1568.00 951.00 cum Image: Ch. 0 to 860m, = 860m 100 100 5.1 Vol III Primer Coat Image: Ch. 0 to 860m, = 860m 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 100 100 Image: Ch. 0 to 860m, = 860m 100 100 100 | | | section - 400. | | | | |
| Image: state of the state | | | For Widening of Carriageway | | | | |
| Total quantity1568.00951.00cum1491168.00105.1 Vol IIIPrimer Coat </th <th></th> <th></th> <th>Ch. 0 to 860m, = 860m</th> <th>1376.00</th> <th></th> <th></th> <th></th> | | | Ch. 0 to 860m, = 860m | 1376.00 | | | |
| 10 5.1 Vol III Primer Coat Image: control of the sector of the sec | | | | 192.00 | | | |
| 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. For Widening of Carriageway Ch. 0 to 860m, = 860m Total quantity 6272.00 Section Sqm 11 | | | Total quantity | 1568.00 | 951.00 | cum | 1491168.00 |
| 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. For Widening of Carriageway Ch. 0 to 860m, = 860m Total quantity 6272.00 Section Sqm 11 | | | | | | | |
| 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. For Widening of Carriageway Ch. 0 to 860m, = 860m S504.00 Total quantity 6272.00 Section Sqm 11 | 10 | 5.1 Vol III | | | | | |
| 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. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section 502. Image: Charage section | | | | | | | |
| primer at the rate of 0.75 kg/sqm using mechanical / Manual means and as per relevant clauses of section 502. For Widening of Carriageway - Ch. 0 to 860m, = 860m 5504.00 Total quantity 6272.00 26.00 Sqm 163072.00 5.2 (i) Vol - | | | | | | | |
| / Manual means and as per relevant clauses of section 502. Image: Section 502. For Widening of Carriageway Image: Section 502. Ch. 0 to 860m, = 860m 5504.00 Ch. 0 to 860m, = 860m 768.00 Total quantity 6272.00 26.00 Society of the section of | | | | | | | |
| section 502. Image: Constraint of Carriageway | | | | | | | |
| For Widening of Carriageway Image: Ch. 0 to 860m, = 860m 5504.00 Image: Ch. 0 to 860m, = 860m 5504.00 Image: Ch. 0 to 860m, = 860m 163072.00 Image: Ch. 0 to 860m, = 860m Total quantity 6272.00 26.00 Sqm 163072.00 Image: Ch. 0 to 860m, = 860m Image: Ch. 0 to 860m, = 860m Image: Ch. 0 to 860m, = 860m Image: Ch. 0 to 860m Image: | | | | | | | |
| Ch. 0 to 860m, = 860m 5504.00 Total quantity 768.00 Total quantity 6272.00 S.2 (i) Vol 5.2 (i) Vol | | | | | | | |
| Image: Image in the i | | | | | | | |
| Total quantity 6272.00 26.00 Sqm 163072.00 11 5.2 (i) Vol | | | Ch. 0 to 860m, = 860m | | | | <u> </u> |
| 11 5.2 (i) Vol | | - | | | | | |
| | | | Total quantity | 6272.00 | 26.00 | Sqm | 163072.00 |
| | | F 9 (9 + | | | | | |
| | 11 | | Task Cash | | | | |
| | | 100 | | | | <u> </u> | <u> </u> |

| | | 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 (normal bituminous surfaces) | | | | |
| | | On DBM for BC 50mm | 12384.00 | | | |
| | | At widening Part | 5504.00 | | | |
| | | On DBM for BC 50mm at junctions | 1728.00 | | | |
| | | | 768.00 | | | |
| | | | 20384.00 | 9.00 | Sqm | 183456.00 |
| | | | | | - 4 | |
| | | @ 0.30 kg per sqm (dry & hungry bituminous | | | | |
| | | surfaces/granular surfaces treated | | | | |
| | | with primer) | | | | |
| | | On Existing for DBM | 11180.00 | | | |
| | | widening part | 5504.00 | | | |
| | 1 | | | | | |
| | | On Existing for DBM | 1560.00 | | | |
| | 1 | widening part | 768.00 | | | |
| | | Total quantity | 19012.00 | 11.00 | sqm | 209132.00 |
| | | | | | | |
| | 5.6 (i) | | | | | |
| 12 | Vol III | Dense Bituminous Macadam | | | | |
| | | | | | | |
| | | | | | | |
| | | 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) cum 7161.00) | | | | |
| | | For Existing road | 1118.00 | | | |
| | | widening part | 550.40 | | | |
| | | | | | | |
| | | For Existing road | 156.00 | | | |
| | 1 | | | | | |
| | | widening part | 76.80 | | | |
| | | Total quantity | 76.80 1901.20 | 7161.00 | cum | 13614493.20 |
| | | | | 7161.00 | cum | 13614493.20 |
| | 5.8 (iv) Vol | | | 7161.00 | cum | 13614493.20 |
| 13 | 5.8 (iv) Vol III | | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete Providing and laying bituminous concrete with hot | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous bituminous binder,transporting the hot mix to work site,laying | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete 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 | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete 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 | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete 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 | | 7161.00 | cum | 13614493.2(|
| 13 | | Total quantity Bituminous Concrete 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 | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete 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 | | 7161.00 | cum | 13614493.2(|
| 13 | | Total quantity Bituminous Concrete 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 | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete 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 | | 7161.00 | cum | 13614493.20 |
| 13 | | Total quantity Bituminous Concrete 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 | 1901.20 | 7161.00 | cum | 13614493.20 |

| | | For Existing road | 62.40 | | | |
|----|-------------|--|---------|---------|-------|------------|
| | | widening part | 30.72 | | | |
| | | Total quantity | 760.48 | 8226.00 | cum | 6255708.48 |
| | | | | | | |
| | | Construction of cement concrete kerb with top and | | | | |
| | | bottom width 115 and 165 mm respectively, 250 | | | | |
| | | mm high in M 20 grade PCC on M-10 grade | | | | |
| | | foundation 150 mm thick, foundation having 50 | | | | |
| 14 | | mm projection beyond kerb stone, kerb stone laid | | | | |
| | | with | | | | |
| | | kerb laying machine, foundation concrete laid | | | | |
| | 8.1 (A) Vol | manually, all complete and as per clause 408 of | | | | |
| | 111 | specifications. | | | | |
| | | | 1720.00 | | | |
| | | | 1720.00 | 189.00 | meter | 325080.00 |
| | | | | | | |
| | | Droviding and laving in position coment concrete of | | | | |
| 15 | | Providing and laying in position cement concrete of specified grade excluding the cost of centering and | | | | |
| | 4.1 vol II | | | | | |
| | 4.1 V0111 | shuttering All work up to plinth level. | 90.30 | | | |
| | | Cement concrete grade M-10 (Nominal Mix) with | 90.30 | | | |
| | 4.1.4 | 20 mm maximum size of stone aggregate | 90.30 | 3595.00 | Cum | 324628.50 |
| | 4.1.4 | | 50.50 | 3353.00 | cum | 524020.50 |
| | | Supplying and filling in plinth under floors | | | | |
| 16 | 2.27 | including,watering, ramming consolidating and | | | | |
| | Vol II | dressing complete. | | | | |
| | | | 90.30 | | | |
| | 2.27.1 | Crusher Stone Dust | 90.30 | 628.00 | Cum | 56708.40 |
| | | | | | | |
| | | 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%, | | | | |
| 17 | | 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 | | | | |
| | 5.4 VOL.3 | | | | | |
| | | taking 20% of existing road | 447.20 | | | |
| | TOTAL | | 89.44 | 5396.00 | Cum | 482618.24 |
| | TOTAL | | | | | 25715026.0 |

ESTIMATE OF ELECTRICAL DUCT

ROAD STRECH FROM RANITAAL JUNCTION TO BALDEOBAGH LENGTH 860 METERS

| S No. | UADD SOR ITEM NO | Descriptions of Item | | Rate | Unit | Amount |
|-------|---------------------|--|----------|---------|------|------------|
| | | | Quantity | | | |
| | | | | | | |
| 1 | 2.9.1, Vol II | Excavation | | | | |
| | | Excavation work in foundation trenches or drains | | | | |
| | | not exceeding 1.5 m in width or 10 sqm on plan | | | | |
| | | including dressing of sides and ramming of | | | | |
| | | bottoms lift upto 1.5 m, including getting out the | | | | |
| | | excavated soil and disposal of surplus excavated | | | | |
| | | soils as directed, within a lead of 50m. | | | | |
| | | Ordinary rock | | | | |
| | | Excavation for Duct | 7568.00 | | | |
| | | | 1056.00 | | | |
| | | Total Excavation | 8624.00 | 202.00 | cum | 1742048.00 |
| | | | | | | |
| 2 | 2.27.1 Vol II | Filling | | | | |
| | | Supplying and filling in plinth under floors | | | | |
| | | including, watering, ramming consolidating and | | | | |
| | | dressing complete. | | | | |
| | | 2.27.1 Crusher Stone Dust | | | | |
| | | For Duct | 344.00 | | | |
| | | | 48.00 | | | |
| | | Total | 392.00 | 628.00 | cum | 246176.00 |
| 3 | 4.1.1 Vol II | Cement Concrete M-15(Duct) | | | | |
| | | Providing and laying in position cement concrete | | | | |
| | | of specified grade excluding the cost of centering | | | | |
| | | and shuttering All work up to plinth level. | | | | |
| | | M 15 with 20mm maxumum size of aggregate. | | | | |
| | | P.C.C Bed | 344.00 | | | |
| | | At Junctions | 48.00 | | | |
| | | | 392.00 | 4154.00 | cum | 1628368.00 |
| | | | | | | |

| | | | | | | 1 |
|---|----------------|---|-------------|--------------------|-----|-------------|
| | 5.1.1 Vol II | Providing and laying in position machine | | | | |
| | | batched, machine mixed and machine vibrated | | | | |
| | | design mix cement concrete of specified grade | | | | |
| | | for reinforced cement concrete work including | | | | |
| | | pumping of concrete to site of laying but | | | | |
| | | excluding the cost of centering, shuttering, | | | | |
| | | finishing and | | | | |
| | | - | | | | |
| 4 | | 5 | | | | |
| | | recommended proportions as per IS 9103 to | | | | |
| | | accelerate, retard setting of concrete, improve | | | | |
| | | workability without impairing strength and | | | | |
| | | durability as per direction of | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | |
| | | cement concrete by using 410 kg. of cement per | | | | |
| | | cum of concrete. All work up to floor 2 level. | | | | |
| | | | | | | |
| | | Along Road | | | | |
| | | R.C.C. Base | 477.30 | | | |
| | | R.C.C. Wall | 825.60 | | | |
| | | Middle RCC wall | 387.00 | | | |
| | | For Chamber | | | | |
| | | RCC Cover for Chamber | 4.25 | | | |
| | | At Junctions | | | | |
| | | R.C.C. Base | 72.00 | | | |
| | | R.C.C. Wall | 115.20 | | | |
| | | Middle RCC wall | 54.00 | | | |
| | | | | | | |
| | | Total quantity of M20 Concrete | 1935.35 | 5245.00 | cum | 10150910.75 |
| | | Total quantity of M20 Concrete | 1935.35 | 5245.00 | cum | 10150910.75 |
| | | Total quantity of M20 Concrete | 1935.35 | 5245.00 | cum | 10150910.75 |
| | | Total quantity of M20 Concrete | 1935.35 | 5245.00 | cum | 10150910.75 |
| | | Total quantity of M20 Concrete Providing, hoisting and fixing up to floor two | 1935.35 | 5245.00 | cum | 10150910.75 |
| | | | 1935.35 | 5245.00 | cum | 10150910.75 |
| | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in | 1935.35 | 5245.00 | cum | 10150910.75 |
| | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor | 1935.35 | 5245.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including | 1935.35 | 5245.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, | 1935.35 | 5245.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster | 1935.35 | 5245.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces | 1935.35 | 5245.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement | 1935.35 | 5245.00 | cum | 10150910.75 |
| 5 | Vol II | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix | 1935.35 | 5245.00 | cum | 10150910.75 |
| 5 | Vol II 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) | 1935.35 | 5245.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road | | 5245.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover | 1935.35 | 5245.00 | cum | |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber | 318.20 | 5245.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber | 318.20 | | | |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber | 318.20 | 5245.00 6524.00 | cum | 10150910.75 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber | 318.20 | | | |
| | 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber Cover for Chamber RCC cover for Chamber | 318.20 | | | |
| | 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber RCC cover for Chamber Reinforcement for Duct Reinforcement for R.C.C. work including | 318.20 | | | |
| | 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber Reinforcement for Duct Reinforcement for R.C.C. work including straightening, cutting, bending, placing in | 318.20 | | | |
| | 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber RCC cover for Chamber Reinforcement for Duct Reinforcement for R.C.C. work including | 318.20 | | | |
| | 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber Reinforcement for Duct Reinforcement for R.C.C. work including straightening, cutting, bending, placing in | 318.20 | | | |

| | | Taking average weight for estimate (Payable as actual design & weight calculations) | 113943.73 20505.77 | | | |
|----|---------------|---|-----------------------|---------|-----|-------------|
| | | | 134449.50 | 60.00 | Kg | 8066970.08 |
| | 20.1.1 Vol II | Form work for Duct | | | | |
| 7 | | | | | | |
| | | Centering and shuttering including strutting, | | | | |
| | | propping etc.and removal of form for : | | | | |
| | | 20.1.1 Foundations, footings, bases of columns, | | | | |
| | | etc. For mass concrete. | | | | |
| | | Along Road | | | | |
| | | R.C.C. wall outer | 5504.00 | | | |
| | | R.C.C. wall inner | 5160.00 | | | |
| | | R.C.C. Base wall | 516.00 | | | |
| | | Middle Wall | 5160.00 | | | |
| | | At Junction | | | | |
| | | R.C.C. wall outer | 1632.00 | | | |
| | | R.C.C. wall inner | 1536.00 | | | |
| | | R.C.C. Base wall | 144.00 | | | |
| | | Middle Wall | 1440.00 | | | |
| | | Total quantity | 21092.00 | 138.00 | cum | 2910696.00 |
| | | | | | | |
| | | Brick work with well burnt chimney bricks in bulls patent trench kiln manifactured by ghol | | | | |
| 8 | 6.1 Vol II | process,crushing strength not less than 40kg /sqcm and water absorption not more than 15% in foundation and plinth. | | | | |
| | 0.1 0011 | | | | | |
| | | Cement mortar 1:6 (1 cement : 6 coarse sand) | 5.52 | 4232.00 | cum | 23360.64 |
| | | 15mm cement plaster on the rough side of single | | | | |
| 9 | 13.2 Vol II | or half brick wall of mix : | | | | |
| | | 1:5 (1 cement: 5 fine sand) | 27.60 | 119.00 | cum | 3284.40 |
| | | | | | | |
| 10 | 2.27.2 Vol II | Sand Filling | | | | |
| | | Supplying and filling in plinth under floors | | | | |
| | | including, watering, ramming consolidating and | | | | |
| | | dressing complete. | | | | |
| | | | 1599.60 | | | |
| | | | 1116.00 | | | |
| | | Local Sand | 2715.60 | 1201.00 | cum | 3261435.60 |
| | | TOTAL | | | | 30163498.57 |

| | | ESTIMATE OF STORM V | VATER DRAII | N | | |
|-------|---------------|---|--------------|------|---------|------------|
| | | ROAD STRECH FROM RANITAAL JUN LENGTH 860 ME | CTION TO BAL | | H | |
| S No. | UADD SOR | | IERS | | | |
| | ITEM NO | Descriptions of Item | Quantity | Unit | Rate | Amount |
| | 2.9.1, Vol II | Excavation work in foundation trenches or drains | | | | |
| | | not exceeding 1.5 m in width or 10 sqm on plan | | | | |
| | | including dressing of sides and ramming of | | | | |
| 1 | | bottoms lift upto 1.5 m, including getting out the | | | | |
| | | excavated soil and disposal of surplus excavated | | | | |
| | | soils as directed, within a lead of 50m. | | | | |
| | 2.9.1 | Ordinary rock | 1376.00 | | | |
| | | At Junction | 256.00 | | | |
| | | | 1632.00 | cum | 202.00 | 329664.00 |
| | | Supplying and filling in plinth under floors | | | | |
| 2 | | including, watering, ramming consolidating and | | | | |
| | 2.27.1 Vol II | dressing complete. | | | | |
| | 2.27.1 | Crusher Stone Dust | 137.60 | | | |
| | | At Junction | 19.20 | | | |
| | | Crusher Stone Dust | 156.80 | cum | 628.00 | 98470.40 |
| | | | | | | |
| 3 | 4.1.2 Vol II | Cement Concrete M-20 (Duct) | | | | |
| | | Providing and laying Plain / Reinorced cement concrete (mixed in concrete mixture) RCC Grade | | | | |
| | | M 15 with 20mm maxumum size of aggregate. | | | | |
| | | P.C.C Bed | 137.60 | | | |
| | | | 19.20 | | | |
| | | TOTAL QUANTITY | 156.80 | cum | 4154.00 | 651347.20 |
| | 5.1.1 Vol II | | | | | |
| | | Providing and laying in position machine batched, | | | | |
| | | machine mixed and machine vibrated design mix | | | | |
| | | cement concrete of specified grade for reinforced | | | | |
| | | cement concrete work including pumping of | | | | |
| | | concrete to site of laying but excluding the cost of | | | | |
| 4 | | centering, shuttering, finishing and | | | | |
| - | | reinforcement. including Admixtures in | | | | |
| | | recommended proportions as per IS 9103 to | | | | |
| | | accelerate, retard setting of concrete, improve | | | | |
| | | workability without impairing strength and | | | | |
| | | durability as per direction of | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | |
| | | cement concrete by using 410 kg. of cement per | | | | |
| | | cum of concrete. All work up to floor 2 level. | | | | |
| | | Along Road | | | | |
| | | RCC Base 100 MM Thick | 137.60 | | | |
| | | R.C.C. Wall 100 MM Thick | 223.60 | | | |
| | | At Junction | | | | |
| | | RCC Base 100 MM Thick | 38.40 | | | |
| | | | | | | |
| | | R.C.C. Wall 100 MM Thick | 62.40 | | | |
| | | | | cum | 5425.00 | 2506350.00 |

| 5 | 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) | | | | |
|----------|---------------|--|----------|---------|--------|----------------|
| | | Along Road | | | | |
| | | Precast Grating Cover for Drains | 137.60 | | | |
| | | At Junctions | | | | |
| | | Precast Grating Cover for Drains | 64.00 | | | |
| | | Total quantity | 201.60 | 6524.00 | cum | 1315238.40 |
| | | | | | | |
| 6 | | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position | | | | |
| | 5.20.6 Vol II | and binding all complete. | | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars | | | | |
| | | Total Weight of steel KG- | 27200.25 | | | |
| | | Total Weight of steel KG- | 12660.48 | <u></u> | | 2224 6 4 2 2 2 |
| | | | 39860.73 | 60.00 | Kg | 2391643.80 |
| | | | | | | |
| 7 | 20.1.1 Vol II | Form work for Duct | | | | |
| | | Centering and shuttering including strutting, | | | | |
| | | propping etc.and removal of form for : | | | | <u> </u> |
| | 20.4.4 | Foundations, footings, bases of columns, etc. For | | | | |
| | 20.1.1 | mass concrete. | | | | |
| | | Along Road | 2226.00 | | | |
| <u> </u> | | R.C.C. wall outer | 2236.00 | | | |
| | | R.C.C. wall inner | 2236.00 | | | |
| <u> </u> | | At Junction R.C.C. wall outer | C24.00 | | | |
| | | | 624.00 | | | |
| | | R.C.C. wall inner Total quantity | 624.00 | 120 | Course | 700200.00 |
| | | | 5720 | 138 | Sqm | 789360.00 |
| | | TOTAL | | | | 8082073.80 |

| | | ESTIMATE OF PEDESTRIAN P | ATH | | |
|-------|---------------------|---|-----------|------|------------|
| | | ROAD STRECH FROM RANITAAL JUNCTION T LENGTH 860 METERS | O BALDEOR | BAGH | |
| S No. | UADD SOR ITEM NO | Descriptions of Item | Rate | Unit | Amount |
| 1 | 3.1, Vol III | Excavation | | | |
| | | Excavation for roadway in soil including loading | | | |
| | | in truck for carrying of cut earth to | | | |
| | | embankment site with all lifts and lead | | | |
| | | upto1000 metres and as per relevant clauses of | | | |
| | | section-300 | | | |
| | | Ch 0 - 1132 | | | |
| | | At Junctions | | | |
| | | Total | 98.00 | cum | 288120.00 |
| | | | | | |
| 2 | 3.11, Vol III | Earthwork | | | |
| | | 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 | | | |
| | | then 7% i/c all lead & lifts i/c excavation, cost of | | | |
| | | watering, mpaction 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. | | | |
| | | | | | |
| | | Along Road | | | |
| | | At Junction | | | |
| | - | Total | 272.00 | cum | 421056.00 |
| 3 | 4.1.5 Vol II | Cement Concrete M - 10 | | | |
| | | Providing and laying in position cement | | | |
| | | concrete in foundation Up to plinth level. | | | |
| | | Cement concrete grade M-10 (Nominal Mix) | | | |
| | | with 40 mm maximum size of stone aggregate | | | |
| | | Footpath M - 10 Along Road | | | |
| | | At junction | | | |
| | | | 3528.00 | Sqm | 3111696.00 |
| | | | | | |
| | 5.1. Vol II | | | | |
| | | Providing and laying in position specified grade | | | |
| 4 | | of reinforced cement concrete excluding the | | | |
| | | cost of centering, shuttering, finishing and | | | |
| | | reinforcement - All work up to plinth level : | | | |
| | | Cement concrete grade M-20 (Nominal Mix) | | | |
| | | with 20 mm maximum size of stone aggregate. | | | |
| | | with 20 min maximum size of stone aggregate. | 4728.00 | Sqm | 184392.00 |

| | | straightening, cutting, bending, placing in position and binding all complete. | | | |
|---|------------------------|---|--------|-----|-----------|
| | | Thermo-Mechanically Treated bars | | | |
| | | Total Weight of steel KG- | 60 | Kg | 110214.00 |
| | | | 00 | кg | 110214.00 |
| 5 | 11.29 | Flag Stone | | | |
| 5 | 11.25 | 40 mm thick rubbed local Flag stone flooring | | | |
| | | over 20 mm (average) thick base of cement | | | |
| | | mortar 1:5 (1 cement :5 coarse sand) with | | | |
| | | joints 3mm thick, side buttered with cement | | | |
| | | mortar 1:2 (1 cement : 2 stone dust) admixed | | | |
| | | with pigment to match the shade of stone and | | | |
| | | pointing with same mortar (minimum size of | | | |
| | | kota stone 0.25 sqm) | | | |
| | | Along Road | | | |
| | 11.30.1 | Red sand stone | 513.00 | Sqm | 1026000.0 |
| | 11.30.2 | White sand stone | 532.00 | Sqm | 665000.00 |
| | | At Junction | | | |
| | 11.30.1 | Red sand stone | 513.00 | Sqm | 153900.00 |
| | 11.30.2 | White sand stone | 532.00 | Sqm | 159600.00 |
| | | | | | |
| | 11.20 Vol II | Chequerred precast cement concrete tiles 18- | | | |
| | | 20mm thick in footpath & courtyard jointed | | | |
| | | with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and | | | |
| 6 | | cleaning etc. complete on 20 mm thick | | | |
| | | bed of cement mortar 1:4 (1 cement: 4 coarse | | | |
| | | sand). | | | |
| | | | | | |
| | | Along Road | | | |
| | 11.20.3 | Dark shade using ordinary cement. | 616.00 | SqM | 400400.00 |
| | | At junction | | | |
| | | Dark shade using ordinary cement. | 616.00 | SqM | 73920.0 |
| | | | | | |
| | | | | | |
| 7 | 8.1, Vol III, pg | Kerb Stone | | | |
| 7 | 8.1, Vol III, pg 69 | Kerb Stone Construction of cement concrete kerb with top | | | |
| 7 | | | | | |
| 7 | | Construction of cement concrete kerb with top | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. | | | |
| 7 | | Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete and as per clause 408 of specifications. A Using Concrete Mixer | | | |

| | ESTIM | ATE OF ROAD MARKING, STREET FURNITURES | & PLAN | ΤΑΤΙΟ | N |
|-------|------------------------|--|--------------------|-------|--------------------|
| | | ROAD STRECH FROM RANITAAL JUNCTION TO BALD LENGTH 860 METERS | EOBAGH | | |
| S No. | UADD SOR ITEM NO | Descriptions of Item | Rate | Unit | Amount |
| 1 | Item 8.10 Vol III | Road Marking | | | |
| | | Solid Lines in White Colour | | | |
| | | Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 | | | |
| | | gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes and as per relevant clauses of section-800. | | | |
| | | Solid Lines in White Colour | | | |
| | | Brocken Lines in White Colour | | | |
| | | Stop Lines in White Colour | | | |
| | | Applying Zebra Crossing | 900.00 | Sqm | 531810.0 |
| | | | 900.00 | эцш | 551810.0 |
| 2 | ltem 8.8 Vol III | Painting lines, dashes, arrows etc | | | |
| | | 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, demarcation at site and traffic control as per relevant clauses of section-800 & I.R.C67 including cost of paint etc. complete. | | Sqm | 25550.0 |
| 3 | Item No 8.3 Vol III | Signages | | | |
| | | Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom of the sign board shall not be less than 1.5 m.) 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 including painting of vertical post as per specification. 90 cm equilateral triangle 80 cm x 60 cm rectangular Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80- 100 cm high above ground level, painted black and white | 3715.00 4537.00 | | 11145.0 27222.0 |
| 4 | | in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of | | | |
| | 8.12 Vol III | specifications. | 292.00 | aast | 8760.0 |

| | | | | - | |
|---|------------------------|--|--------|-----------------------|------------|
| 5 | 8.20 Vol III | Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973) | | | |
| | | | 292.00 | each | 8760.00 |
| | | | | | |
| | | | | | |
| 6 | 11.1 Vol III | Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart) | 230.00 | Meter | 253000.00 |
| | | | | | |
| 7 | 11.2 Vol III | Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge mannure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year) | 488.00 | Nos | 29280.00 |
| 8 | 23.15 MP PWD SOR | Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture mannuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately). | | | |
| | 23.15.1 | Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height. | 645 | each | 38700.00 |
| | 23.15.2 | Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m) | 33 | each | 39600.00 |
| 9 | 11.5 vol-3 | Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated as per design in two halves bolted together) | 2179 | each tree guard | 130740.00 |
| | | TOTAL | | Buuru | 1104567.00 |

ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR) LENGTH 824 METERS

| SUMMARY | SHEET | |
|---------|-------|--|
| | | |

| | SUMMARY SHEET | |
|---------|--------------------------------|-------------|
| Sr No. | Item Description | Amount |
| 51 140. | | (In Rs.) |
| 1 | ROAD | 22013262.52 |
| 2 | UTILITY DUCT | 27354243.30 |
| 3 | STORM WATER DRAIN | 7782779.44 |
| 4 | PEDESTARIAN TRACK | 7275577.20 |
| 5 | SIGNAGES, MARKING, LANDSCAPING | 1574925.00 |
| | TOTAL | 66000787.46 |

ESTIMATE OF ROAD ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR)

| 1 | 2.3 Vol III | Dismantling | Quantity | | | |
|---|---------------|--|--------------------|--------|------|----------|
| 1 | 2.3 Vol III | Dismantling | | | | |
| | | Districting | | | | |
| | | 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 lifts and lead 1000 | | | | |
| | | meter. | | | | |
| | | Cement Concrete Grade M-15 & M-20 | 20.0 85 | 224.00 | | (1020.0 |
| | | | 260.85 | 234.00 | cum | 61038.9 |
| | | Dismantling of flexible pavements and disposal of dismantled | | | | |
| | | materials up to a | | | | |
| 2 | | lead of 1000 meter, stacking serviceable and unserviceable | | | | |
| | | materials separately | | | | |
| | | and as per relevant clauses of section-200. | | | | |
| | | Bituminous courses taking 10% of Total | 1606.80 | | | |
| | | Bituminous courses | 160.68 | 358.00 | cum | 57523.4 |
| | | Dismantling of cement concrete pavement i/c breaking to | | | | |
| | | | | | | |
| | | pieces not exceeding 0.02 cum in volume and stock piling at | | | | |
| 3 | | designated locations and disposal of dismantled materials up | | | | |
| | | to a lead upto 1000 meter, stacking serviceable and | | | | |
| | | unserviceable materials separately and as per relevant clauses | | | | |
| | 2.5 vol III | of section-200. | 81.68 | 716.00 | cum | 58479.3 |
| | | | | | | |
| | | Dismantling kerb stone by manual means and disposal of | | | | |
| 4 | | dismantled material with all lifts and up to a lead upto 1000 | | | | |
| | 2.7 vol II | meter and as per relevant clauses of section-200. | 168.00 | 6.00 | m | 1008.0 |
| | | | | | | |
| | | Removal of telephone / Electric poles including excavation and | | | | |
| | | | | | | |
| | | dismantling of foundation concrete and lines under the | | | | |
| 5 | | supervision of concerned department, | | | | |
| | | disposal with all lifts and up to a lead of 1000 meter and | | | | |
| | | stacking the serviceable and unserviceable material | | | | |
| | 2.12 vol II | separately. | 20.00 | 90.00 | each | 1800.0 |
| 6 | 3.1, Vol III | Excavation | | | | |
| | | | | | | |
| | | Excavation for roadway in soil including loading in truck for | | | | |
| | | carrying of cut earth to embankment site with all lifts and lead | | | | |
| | | upto1000 metres and as per relevant clauses of section-300 | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 824m, = $824m$ | EE07 10 | | | |
| | | Total | 5537.28 5537.28 | 98.00 | cum | 5635.2 |
| | | | 3337.20 | 50.00 | cum | 5055.2 |
| 7 | 3.11, Vol III | Earthwork | | | | |
| | | Construction of Emboniumont/Cub grade/ south should an an | | | | |
| | | 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 then | | | | |
| | | 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction | | | | |
| | | 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. | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 824m, = 824m | 2636.80 | | | |
| | 1 | Total | 2636.80 | 272.00 | cum | 717209.6 |
| | | | | | | |

| | | | | | <u> </u> | |
|----|-----------------|--|----------|--------|----------|------------|
| | | Crucher Pup Macadam Pace (Providing cruched stope | | | | |
| | | 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) | | | | |
| | | For 53 mm maximum size | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 824m, = 824m | 1582.08 | | | |
| | | Total | 1582.08 | 833.00 | cum | 1317872.64 |
| | | | | | | |
| 9 | 4.5 Vol III | WMM | | | | |
| | | | | | | |
| | | 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. | | | | |
| | | For Widening of Carriageway | 4040.45 | | | |
| | | Ch. 0 to 824m, = 824m | 1318.40 | | | 40-0-00 |
| | | Total quantity | 1318.40 | 951.00 | cum | 1253798.40 |
| 10 | 5.1 Vol III | Primer Coat | | | | |
| 10 | 5.1 00111 | 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. | | | | |
| | | For Widening of Carriageway | | | | |
| | | Ch. 0 to 824m, = 824m | 5273.60 | | | |
| | | Total quantity | 5273.60 | 26.00 | Sam | 137113.60 |
| | | | | | | |
| 11 | 5.2 (i) Vol III | Tack Coat | | | | |
| | | 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 (normal bituminous surfaces) | | | | |
| | | On DBM for BC 50mm | 11865.60 | | | |
| | | At widening Part | 5273.60 | | | |
| | | On DBM for BC 50mm at junctions | 1728.00 | | | |
| | | | 768.00 | | | |
| | | | 19635.20 | 9.00 | Sqm | 176716.80 |
| | | ;@ 0.30 kg per sqm (dry & hungry bituminous | | | | |
| | | surfaces/granular surfaces treated | | | | |
| | | with primer) | | | | |
| | + | On Existing for DBM | 10712.00 | | | |
| | + | widening part | 5273.60 | | | |
| | 1 | At Junction | 5275.00 | | | |
| | | On Existing for DBM | 520.00 | | | |
| | 1 | widening part | 256.00 | | | |
| | 1 | Total quantity | 16761.60 | 11.00 | sqm | 184377.60 |
| | | | | | | |
| 12 | 5.6 (i) Vol III | Dense Bituminous Macadam | | | | |
| | | | | | | |

| | | 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) cum 7161.00) | | | | |
| | | On Existing road surface | 1071.20 | | 1 | |
| | | widening part | 527.36 | | 1 | |
| | | Total quantity | 1598.56 | 7161.00 | cum | 11447288.16 |
| | | | | | | |
| 13 | 5.8 (iv) Vol III | Bituminous Concrete | | | 1 | |
| | | | | | | |
| | | | | | | |
| | | 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 | | | | |
| | | | | | | |
| | | On Existing road surface | 428.48 | | | |
| | | widening part | 210.94 | | | |
| | | Total quantity | 639.42 | 8226.00 | cum | 5259901.82 |
| | | | | | | |
| | | | | | | |
| | | Construction of cement concrete kerb with top and bottom | | | | |
| | | width 115 and 165 mm respectively, 250 mm high in M 20 | | | | |
| 14 | | grade PCC on M-10 grade foundation 150 mm thick, | | | | |
| | | foundation having 50 mm projection beyond kerb stone, kerb | | | | |
| | | stone laid with kerb laying machine, foundation concrete laid | | | | |
| | 8.1 (A) Vol III | manually, all complete and as per clause 408 of specifications. | | | | |
| | | | 1648.00 | | | |
| | | | 1648.00 | 189.00 | meter | 311472.00 |
| | | | | | | |
| 45 | | Providing and laying in position cement concrete of specified | | | | |
| 15 | 4.4 | grade excluding the cost of centering and shuttering All work | | | | |
| | 4.1 vol II | up to plinth level. | 115 20 | | | |
| | | Coment concrete grade M 10 (Neminal Min) with 20 mm | 115.36 | | | |
| | 4.1.4 | Cement concrete grade M-10 (Nominal Mix) with 20 mm maximum size of stone aggregate | 115.26 | 3595.00 | C | 414719.20 |
| | 4.1.4 | | 115.36 | 3333.00 | Cuili | 414719.20 |
| | | | | | | |
| 16 | | Supplying and filling in plinth under floors including,watering, | | | | |
| | 2.27 voll | ramming consolidating and dressing complete. | | | | |
| | 2.27.1 | Crusher Stone Dust | 230.72 | | | |
| | 2.27.1 | Crusher Stone Dust | 230.72 | 628.00 | Cum | 144892.16 |
| | | | 230.72 | 520.00 | | 177052.10 |
| | | | | | | |
| | | Providing and laying levelling course/profile corrective course | | | | |
| | | with bituminous macadam with hot mix plant using crushed | | | | |
| | | aggregates of grading-1 premixed | | | | |
| 17 | | 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 | | | | |
| | Volume 3,item | the desired compaction complete in all respects and as per | | | | |
| | volume Juleill | | | | 1 | |
| | no.5.4 nago 51 | relevant clauses of section-500. | | | | 462415.62 |

| | taking 20% of existing road | 428.48 | | | |
|-------|-----------------------------|--------|---------|-----|-------------|
| | | 85.70 | 5396.00 | Cum | |
| Total | | | | | 22013262.52 |

ESTIMATE OF ELECTRICAL DUCT

ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR) LENGTH 824 METERS

| | UADD SOR | Descriptions of them | | Dette | 11 | 0 |
|-------|---------------|--|----------|---------|------|------------|
| S No. | ITEM NO | Descriptions of Item | | Rate | Unit | Amount |
| | | | Quantity | | | |
| | | | | | | |
| 1 | 2.9.1, Vol II | Excavation | | | | |
| | | Excavation work in foundation trenches or drains | | | | |
| | | not exceeding 1.5 m in width or 10 sqm on plan | | | | |
| | | including dressing of sides and ramming of | | | | |
| | | bottoms lift upto 1.5 m, including getting out the | | | | |
| | | excavated soil and disposal of surplus excavated | | | | |
| | | soils as directed, within a lead of 50m. | | | | |
| | | Ordinary rock | | | | |
| | | Excavation for Duct | 7251.20 | | | |
| | | | 1056.00 | | | |
| | | Total Excavation | 8307.20 | 202.00 | cum | 1678054.40 |
| | | | | | | |
| 2 | 2.27.1 Vol II | - | | | | |
| | | Supplying and filling in plinth under floors | | | | |
| | | including, watering, ramming consolidating and | | | | |
| | | dressing complete. | | | | |
| | | 2.27.1 Crusher Stone Dust | | | | |
| | | For Duct | 329.60 | | | |
| | | | 48.00 | | | |
| | | Total | 377.60 | 628.00 | cum | 237132.80 |
| 3 | 4.1.1 Vol II | Cement Concrete M-15(Duct) | | | | |
| - | | Providing and laying in position cement concrete | | | | |
| | | of specified grade excluding the cost of centering | | | | |
| | | and shuttering All work up to plinth level. | | | | |
| | | стана с | | | | |
| | | M 15 with 20mm maxumum size of aggregate. | | | | |
| | | P.C.C Bed | 329.60 | | | |
| | | At Junctions | 48.00 | | | |
| | | | 377.60 | 4154.00 | cum | 1568550.40 |
| | | | | | | |

| , | 5.1.1 Vol II | Providing and laying in position machine batched, | | | | |
|----------|----------------|--|----------------|---------|---------------------------------|------------|
| 1 | ľ | machine mixed and | | | | |
| 1 | 1 | machine vibrated design mix cement concrete of | | | | |
| 1 | 1 | specified grade for | | | | |
| 1 | 1 | reinforced cement concrete work including | | | | |
| 1 | 1 | pumping of concrete to site | | | | |
| 1 | 1 | of laying but excluding the cost of centering, | | | | |
| 1 | 1 | shuttering, finishing and | | | | |
| 4 | 1 | reinforcement. including Admixtures in | | | | |
| 1 | 1 | recommended proportions | | | | |
| , | 1 | as per IS 9103 to accelerate, retard setting of | | | | |
| 1 | 1 | concrete, improve | | | | |
| 1 | 1 | workability without impairing strength and | | | | |
| 1 | 1 | durability as per direction of | | | | |
| 1 | 1 | Engineer-in-charge. M-25 grade reinforced | | | | |
| , | 1 | cement concrete by using | | | | |
| 1 | 1 | 410 kg. of cement per cum of concrete. All work | | | | |
| ! | ļ' | up to floor 2 level. | | | | |
| ' | ' | Along Road | | | µ | |
| ' | ' | R.C.C. Base | 457.32 | | | |
| ' | ↓ ' | R.C.C. Wall | 791.04 | | | |
| ' | ' | Middle RCC wall | 370.80 | | | |
| ' | ↓ ' | For Chamber | | | | |
| ' | ' | RCC Cover for Chamber | 4.25 | | | |
| ' | ' | At Junctions | | | ⊢] | |
| ' | ' | R.C.C. Base | 72.00 | | | |
| ' | ' | R.C.C. Wall | 115.20 | | | |
| <u> </u> | <u> </u> ' | Middle RCC wall | 54.00 | ļ | | |
| | | T + I | 1001 01 | 5345 00 | | 0770070 AF |
| — | | Total quantity of M20 Concrete | 1864.61 | 5245.00 | cum | 9779879.45 |
| | | Total quantity of M20 Concrete | 1864.61 | 5245.00 | cum | 9779879.45 |
| | | Total quantity of M20 Concrete | 1864.61 | 5245.00 | cum | 9779879.45 |
| | | | 1864.61 | 5245.00 | cum | 9779879.45 |
| | | Providing, hoisting and fixing up to floor two level | 1864.61 | 5245.00 | cum | 9779879.45 |
| | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in | 1864.61 | 5245.00 | cum | 9779879.45 |
| | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor | 1864.61 | 5245.00 | cum | 9779879.45 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including | 1864.61 | 5245.00 | cum | 9779879.45 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, | 1864.61 | 5245.00 | cum | 9779879.45 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster | 1864.61 | 5245.00 | cum | 9779879.45 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces | 1864.61 | 5245.00 | cum | 9779879.45 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement | 1864.61 | 5245.00 | cum | 9779879.45 |
| 5 | Vol II | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix | 1864.61 | 5245.00 | cum | 9779879.45 |
| 5 | | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) | 1864.61 | 5245.00 | cum | 9779879.45 |
| 5 | Vol II | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road | | 5245.00 | cum | 9779879.45 |
| 5 | Vol II | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) | 1864.61 | 5245.00 | | 9779879.45 |
| 5 | Vol II | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber | 304.88 | 5245.00 | | 9779879.45 |
| 5 | Vol II | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber | 304.88 6.48 | | | |
| 5 | Vol II | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber | 304.88 | 5245.00 | cum Cum Cum Cum Cum | 9779879.45 |
| 5 | Vol II 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber | 304.88 6.48 | | | |
| | Vol II 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber Total quantity Reinforcement for Duct | 304.88 6.48 | | | |
| | Vol II 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber RCC Cover for Chamber RCC cover for Chamber Reinforcement for Duct Reinforcement for R.C.C. work including | 304.88 6.48 | | | |
| | Vol II 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber Total quantity Reinforcement for Duct | 304.88 6.48 | | | |
| | Vol II 5.10 | Providing, hoisting and fixing up to floor two level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering, finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete but excluding cost of reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate) Along Road Precast Cover For Chamber RCC Cover for Chamber RCC cover for Chamber Reinforcement for Duct Reinforcement for R.C.C. work including straightening, cutting, bending, placing in | 304.88 6.48 | | | |

| | | TOTAL | | | | 27354243.30 |
|----|---------------|--|---------------------|---------|-----|-------------|
| | | | 1212.72 | 1201.00 | cum | 1456476.72 |
| | | Local Sand | 446.40 | | | |
| | | | 766.32 | | | |
| | | dressing complete. | | | | |
| | | including, watering, ramming consolidating and | | | | |
| | | Supplying and filling in plinth under floors | | | | |
| 10 | 2.27.2 Vol II | Sand Filling | | | | |
| | | | | | | |
| | | 1:5 (1 cement: 5 fine sand) | 27.60 | 119.00 | cum | 3284.40 |
| 9 | 13.2 Vol II | or half brick wall of mix : | | | | |
| 0 | | 15mm cement plaster on the rough side of single | | | | |
| | | | | | | |
| | | Cement mortar 1:6 (1 cement : 6 coarse sand) | 5.52 | 4232.00 | cum | 23360.64 |
| | | · | | | | |
| | 6.1 Vol II | in foundation and plinth. | | | | |
| - | | /sqcm and water absorption not more than 15% | | | | |
| 8 | | process, crushing strength not less than 40kg | | | | |
| | | patent trench kiln manifactured by ghol | | | | |
| | | Brick work with well burnt chimney bricks in bulls | | | | |
| | | | | | | |
| | | | 20408.00 | 120.00 | cum | 2010304.00 |
| | | Total quantity | 1440.00 20408.00 | 138.00 | cum | 2816304.00 |
| | | R.C.C. Base wall Middle Wall | 144.00 | | | |
| | | R.C.C. wall inner R.C.C. Base wall | 1536.00 | | | |
| | | R.C.C. wall outer R.C.C. wall inner | 1632.00 1536.00 | | | |
| | | At Junction | 1622.00 | | | |
| | | Middle Wall | 4944.00 | | | |
| | | R.C.C. Base wall | 494.40 | | | |
| | | R.C.C. wall inner | 4944.00 | | | |
| | | R.C.C. wall outer | 5273.60 | | | |
| | | Along Road | | | | |
| | | | | | | |
| | | etc. For mass concrete. | | | | |
| | | 20.1.1 Foundations, footings, bases of columns, | | | | |
| | | propping etc.and removal of form for : | | | | |
| | | Centering and shuttering including strutting, | | | | |
| 7 | 20.1.1 Vol II | Form work for Duct | | | | |
| | | | | | | |
| | | | 129332.01 | 60.00 | Kg | 7759920.47 |
| | | Total Weight of steel KG- | 19553.09 | | | |
| | | actual design & weight calculations) | 109778.91 | | | |
| | | Taking average weight for estimate (Payable as | | | | |

| | | ESTIMATE OF STORM W | ATER DRAIN | | | | | | | |
|-------|--|---|------------|------|----------|------------|--|--|--|--|
| | ROAD STRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK (HANUMAN MANDIR) LENGTH 824 METERS | | | | | | | | | |
| S No. | UADD SOR ITEM NO | Descriptions of Item | _ | Unit | Rate | Amount | | | | |
| | 2.9.1, Vol II | Excavation work in foundation trenches or drains | Quantity | | | | | | | |
| | 2.9.1, VOLI | not exceeding 1.5 m in width or 10 sqm on plan | | | | | | | | |
| | | including dressing of sides and ramming of | | | | | | | | |
| 1 | | bottoms lift upto 1.5 m, including getting out the | | | | | | | | |
| - | | excavated soil and disposal of surplus excavated | | | | | | | | |
| | | soils as directed, within a lead of 50m. | | | | | | | | |
| | | | | | | | | | | |
| | 2.9.1 | Ordinary rock Cum 202.00 | 1318.40 | | | | | | | |
| | | At Junction | 320.00 | | | | | | | |
| | | | 1638.40 | cum | 202.00 | 330956.80 | | | | |
| | | Supplying and filling in plinth under floors | | | | | | | | |
| 2 | | including, watering, ramming consolidating and | | | | | | | | |
| | 2.27.1 Vol II | dressing complete. | | | | | | | | |
| | 2.27.1 | Crusher Stone Dust | 131.84 | | | | | | | |
| | | At Junction | 32.00 | | | | | | | |
| | | | 163.84 | cum | 628.00 | 102891.52 | | | | |
| | | | | | | | | | | |
| 3 | 4.1.2 Vol II | Cement Concrete M-20 (Duct) | | | | | | | | |
| | | Providing and laying Plain / Reinorced cement concrete (mixed in concrete mixture) RCC Grade | | | | | | | | |
| | | M 15 with 20mm maxumum size of aggregate. | | | | | | | | |
| | | P.C.C Bed | 131.84 | | | | | | | |
| | | | 32.00 | | | | | | | |
| | | | 163.84 | cum | 4154.00 | 680591.36 | | | | |
| | 5.1.1 Vol II | Providing and laying in position machine batched, | | | | | | | | |
| | | machine mixed and | | | | | | | | |
| | | machine vibrated design mix cement concrete of | | | | | | | | |
| | | specified grade for | | | | | | | | |
| | | reinforced cement concrete work including | | | | | | | | |
| | | pumping of concrete to site | | | | | | | | |
| | | of laying but excluding the cost of centering, | | | | | | | | |
| | | shuttering, finishing and reinforcement. including Admixtures in | | | | | | | | |
| 4 | | recommended proportions | | | | | | | | |
| | | as per IS 9103 to accelerate, retard setting of | | | | | | | | |
| | | concrete, improve | | | | | | | | |
| | | workability without impairing strength and | | | | | | | | |
| | | durability as per direction of | | | | | | | | |
| | | Engineer-in-charge. M-25 grade reinforced | | | | | | | | |
| | | cement concrete by using | | | | | | | | |
| | | 410 kg. of cement per cum of concrete. All work | | | | | | | | |
| | | up to floor 2 level. | | | | | | | | |
| | | Along Road | | | <u>├</u> | | | | | |
| | | RCC Base 100 MM Thick | 131.84 | | <u>├</u> | | | | | |
| | | R.C.C. Wall 100 MM Thick | 214.24 | | <u> </u> | | | | | |
| | | At Junction | | | <u> </u> | | | | | |
| | | RCC Base 100 MM Thick | 64.00 | | | | | | | |
| | | R.C.C. Wall 100 MM Thick | 104.00 | | | | | | | |
| | | TOTAL QUANTITY OF RCC | 514.08 | cum | 5245.00 | 2696349.60 | | | | |
| | | | | | | | | | | |

| | | Providing, hoisting and fixing up to floor two level | | | | |
|---|---------------|--|----------|---------|-----|------------|
| | | precast reinforced cement concrete work in | | | | |
| | | string courses, bands, copings, bed plates, anchor | | | | |
| | | blocks, plain window sills and the like including | | | | |
| 5 | | the cost of required centering, shuttering, | | | | |
| | | finishing smooth with 6 mm thick cement plaster | | | | |
| | | 1:3 (1 cement : 3 fine sand) on exposed surfaces | | | | |
| | | complete but excluding cost of reinforcement | | | | |
| | | with Cement concrete grade M-20 (Nominal Mix | | | | |
| | 5.10 | with 20 mm maximum size of stone aggregate) | | | | |
| | | Along Road | | | | |
| | | Precast Grating Cover for Drains | 131.84 | | | |
| | | At Junctions | | | | |
| | | Precast Grating Cover for Drains | 64.00 | | | |
| | | Total quantity | 195.84 | 6524.00 | cum | 1277660.16 |
| | | | | | | |
| | | | | | | |
| | | Reinforcement for R.C.C. work including | | | | |
| 5 | | straightening, cutting, bending, placing in position | | | | |
| | 5.20.6 Vol II | and binding all complete. | | | | |
| | 5.20.6 | Thermo-Mechanically Treated bars | | | | |
| | | Total Weight of steel KG- | 30266.46 | 60 | Kg | 1815987.60 |
| 6 | 20.1.1 Vol II | Form work for Duct | | | | |
| |] | Centering and shuttering including strutting, | | | | |
| | | propping etc.and removal of form for : | | | | |
| | | Foundations, footings, bases of columns, etc. For | | | | |
| | 20.1.1 | mass concrete. | | | | |
| | | Along Road | | | | |
| | | R.C.C. wall outer | 2142.40 | | | |
| | | R.C.C. wall inner | 2142.40 | | | |
| | | At Junction | | | | |
| | | R.C.C. wall outer | 1040.00 | | | |
| | | R.C.C. wall inner | 1040.00 | | | |
| | | Total quantity | 6365 | 138 | Sqm | 878342.40 |
| | | TOTAL | | | | 7782779.44 |

| | | ESTIMATE OF PEDESTRIA | N PATH | | | |
|-------|---------------|---|----------|---------|--------|------------|
| | ROAD STRE | CH FROM YATAYAT TIRAHA TO PRANJAPE | - | HANUMAN | MANDIR | k) |
| S No. | UADD SOR | LENGTH 824 METERS Descriptions of Item | | Rate | Unit | Amount |
| | ITEM NO | | Quantity | | | |
| 1 | 3.1, Vol III | Excavation | | | | |
| | | Excavation for roadway in soil including | | | | |
| | | loading in truck for carrying of cut earth to | | | | |
| | | embankment site with all lifts and lead | | | | |
| | | upto1000 metres and as per relevant | | | | |
| | | clauses of section-300 | | | | |
| | | Ch 0 - 1132 | 2472.00 | | | |
| | | At Junctions | 600.00 | | | |
| | | Total | 3072.00 | 98.00 | cum | 301056.00 |
| 2 | 3.11, Vol III | Earthwork | | | | |
| 2 | 5.11, VOI III | 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 then 7% i/c all lead & lifts i/c | | | | |
| | | excavation, cost of watering, mpaction 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. | | | | |
| | | | | | | |
| | | Along Road | 1483.20 | | | |
| | | At Junction | 360.00 | 272.00 | | 402420.40 |
| | | Total | 1483.20 | 272.00 | cum | 403430.40 |
| 3 | 4.1.5 Vol II | Cement Concrete M - 10 | | | | |
| | | Providing and laying in position cement | | | | |
| | | concrete in foundation Up to plinth level. | | | | |
| | | Cement concrete grade M-10 (Nominal Mix) | | | | |
| | | with 40 mm maximum size of stone | | | | |
| | | aggregate | | | | |
| | | Footpath M - 10 Along Road | 741.60 | | | |
| | | At junction | 180.00 | | | |
| | | | 921.60 | 3528.00 | Sqm | 3251404.80 |
| | | | | | | |
| | 5.1. Vol II | Drouiding and louing in position and the | | | | |
| | | Providing and laying in position specified | | | | |
| 4 | | grade of reinforced cement concrete | | | | |
| | | excluding the cost of centering, shuttering, | | | | |
| | 1 | finishing and reinforcement - All work up to | | | | |
| | | | | | | 1 |
| | | plinth level : | | | | |
| | | Cement concrete grade M-20 (Nominal Mix) | | | | |
| | | • | | | | |

| | | Reinforcement for R.C.C. work including | | | | |
|---|------------------|---|------------------------------|--------|----------|------------|
| | | straightening, cutting, bending, placing in | | | | |
| | | position and binding all complete. | | | | |
| | | Thermo-Mechanically Treated bars | | | | |
| | | Total Weight of steel KG- | 1836.90 | 60 | Kg | 110214.00 |
| | | | 2000.50 | | <u>ه</u> | 11011 1100 |
| 5 | 11.29 | Flag Stone | | | | |
| | | 40 mm thick rubbed local Flag stone flooring | | | | |
| | | over 20 mm (average) thick base of cement | | | | |
| | | mortar 1:5 (1 cement :5 coarse sand) with | | | | |
| | | joints 3mm thick, side buttered with cement | | | | |
| | | mortar 1:2 (1 cement : 2 stone dust) | | | | |
| | | admixed with pigment to match the shade | | | | |
| | | of stone and pointing with same mortar | | | | |
| | | (minimum size of kota stone 0.25 sqm) | | | | |
| | | Along Dood | | | | |
| | 11.30.1 | Along Road Red sand stone | 2000.00 | 513.00 | Sqm | 1026000.00 |
| | 11.30.2 | White sand stone | 1250.00 | 532.00 | Sqm | 665000.00 |
| | 11.50.2 | At Junction | 1250.00 | 552.00 | 3411 | 005000.00 |
| | 11.30.1 | Red sand stone | 500.00 | 513.00 | Sqm | 256500.00 |
| | 11.30.2 | White sand stone | 500.00 | 532.00 | Sqm | 266000.00 |
| | | | | | • • | |
| | 11.20 Vol II | Chequerred precast cement concrete tiles | | | | |
| | | 18-20mm thick in footpath & courtyard | | | | |
| | | jointed with neat cement slurry mixed with | | | | |
| | | pigment to match the shade of tiles | | | | |
| | | including rubbing and cleaning etc. | | | | |
| | | complete on 20 mm thick | | | | |
| | | bed of cement mortar 1:4 (1 cement: 4 | | | | |
| | | coarse sand). | | | | |
| | | Along Road | | | | |
| | 11.20.3 | Dark shade using ordinary cement. | 650.00 | 616.00 | SqM | 400400.00 |
| | | At junction | | | | |
| | | Dark shade using ordinary cement. | 200.00 | 616.00 | SqM | 123200.00 |
| 6 | 8.1, Vol III, pg | Kerb Stone | | | | |
| | | Construction of cement concrete kerb with | | | | |
| | | top and bottom width 115 and 165 mm | | | | |
| | | respectively, 250 mm high in M 20 grade | | | | |
| | | PCC on M-10 grade foundation 150 mm | | | | |
| | | thick, foundation having 50 mm projection | | | | |
| | | beyond kerb stone, kerb stone laid with | | | | |
| | | kerb laying machine, foundation concrete | | | | |
| | | laid manually, all complete and as per clause | | | | |
| | | 408 of specifications. | | | | |
| | | A Using Concrete Mixer | | | | |
| | | | | | | 1 |
| | | at Junction | 1300.00 | | | |
| | | at Junction at Junction | 1300.00 240.00 | | | |
| | | at Junction at Junction | 1300.00 240.00 1540.00 | 187.00 | meter | 287980.00 |

| | ESTI | MATE OF ROAD MARKING, STREET FURNITURE | S & PLA | NTATIC | N | |
|-------|-------------|--|---------------|---------|-------|----------------------|
| | ROAD ST | TRECH FROM YATAYAT TIRAHA TO PRANJAPE CHOWK | (HANUN | | IDIR) | |
| S No. | UADD SOR | Descriptions of Item | Measur | Rate | Unit | Amount |
| | ITEM NO | Descriptions of item | ement | nale | onit | Amount |
| | | | Quantity | | | |
| 1 | Item 8.10 | Road Marking | | | | |
| | Vol III | | | | | |
| | | Solid Lines in White Colour | | | | |
| | | Road Marking with Hot Applied Thermoplastic Compound | | | | |
| | | with Reflectorising Glass Beads on Bituminous Surface (Providing and laying of hot applied thermoplastic | | | | |
| | | compound 2.5 mm thick including reflectorising glass | | | | |
| | | beads @ 250 | | | | |
| | | gms per sqm area, thickness of 2.5 mm is exclusive of | | | | |
| | | surface applied glass beads as per IRC:35 .The finished | | | | |
| | | surface to be level, uniform and free from streaks and | | | | |
| | | holes and as per relevant clauses of section-800. | | | | |
| | | | | | | |
| | | Solid Lines in White Colour | 164.80 | | | |
| | | Brocken Lines in White Colour | 82.40 | | | |
| | | Stop Lines in White Colour | 41.20 | | | |
| | | Applying Zebra Crossing | 700.00 | | | |
| | | | 988.40 | 900.00 | Sqm | 889560.00 |
| | | | | | | |
| 2 | Item 8.8 | Painting lines, dashes, arrows etc | | | | |
| | Vol III | Deinting lines, dechas, arrows ato an reads in two costs on | | | | |
| | | 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, demarcation at site and traffic control as per | | | | |
| | | relevant clauses of section-800 & I.R.C67 including cost of | | | | |
| | | paint etc. complete. | 412.00 | 70.00 | Sqm | 28840.00 |
| | | | | | | |
| 3 | Item No 8.3 | Signages | | | | |
| 3 | Vol III | | | | | |
| | | | | | | |
| | | | | | | |
| | | Providing and fixing of retro- reflectorised cautionary, | | | | |
| | | mandatory and informatory sign as per IRC :67 made of | | | | |
| | | encapsulated lens type reflective sheeting vide clause | | | | |
| | | 801.3, fixed over aluminium sheeting, 1.5 mm thick | | | | |
| | | supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm (height from crown level of the road and bottom | | | | |
| | | of the sign board shall not be less than 1.5 m.) 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 | | | | |
| | | | | | | |
| | | including painting of vertical post as per specification. | | | | |
| | | including painting of vertical post as per specification. 90 cm equilateral triangle | 5.00 | 3715.00 | Nos | 18575.00 |
| | | | 5.00 10.00 | | | 18575.00 45370.00 |

| 4 | 8.12 Vol III | Road Delineators (Supplying and installation of delineators (road way indicators, hazard markers, object markers), 80- 100 cm high above ground level, painted black and white in 15 cm wide stripes, fitted with 80 x 100 mm rectangular or 75mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications. | 30.00 | 292.00 | each | 8760.00 |
|---|------------------------|---|---------|--------|-------|-----------|
| | | | | | | |
| 5 | 8.20 Vol III | Road Markers/Road Stud with Lense Reflector (Providing and fixing of road stud 100x 100 mm, dia cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS 873 part 4:1973) | | | | |
| | | | 30.00 | 292.00 | each | 8760.00 |
| | | | | | | |
| | | | | | | |
| 6 | 11.1 Vol III | Planting Permanent Hedges including Digging of Trenches (Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 meters and supplying and planting hedge plants at 30 cm apart) | 1120.00 | 230.00 | Meter | 257600.00 |
| 7 | 11.2 Vol III | Planting of Trees and their Maintenance for one Year (Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge mannure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year) | 80.00 | 488.00 | Nos | 39040.00 |
| 8 | 23.15 MP PWD SOR | Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture mannuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately). | | | | |
| | 23.15.1 | Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants (1.8 mtrs to 2.10 mtrs height. | 100.00 | 645 | each | 64500.00 |
| | 23.15.2 | Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta.(height 0.3 m to 0.45m) | 1200.00 | 33 | each | 39600.00 |

| 9 | 11.5 Vol III | Tree Guard with MS Angle Iron and Steel Wire (Providing and fixing tree guard 0.60 square meter, 2.00 meter high fabricated with MS angle iron 30 x 30 x 3 mm, MS iron 25 x 3 mm and steel wire 3 mm dia welded and fabricated | | | | |
|---|-----------------|--|-------|------|------|------------|
| | | as per design in two halves bolted together) | 80.00 | 2179 | each | 174320.00 |
| | | TOTAL | | | | 1574925.00 |