


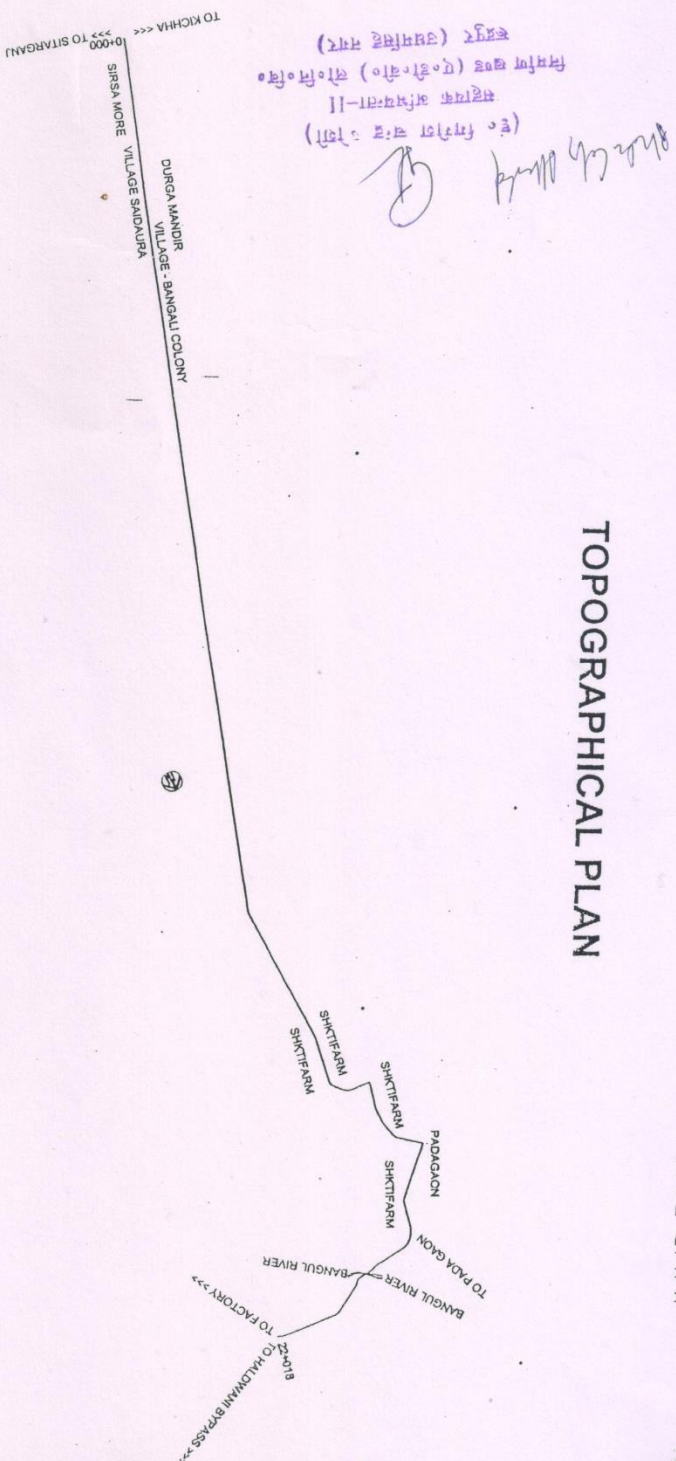
प्रस्तावित परियोजना का ले-आऊट प्लान एवं  
प्राक्कलन संलग्न है।

  
सहायक अभियन्ता

  
अधिशाली अभियन्ता  
निर्माण विभाग/ए.डी.सी.  
ला.नि.ब., रुद्रपुर.

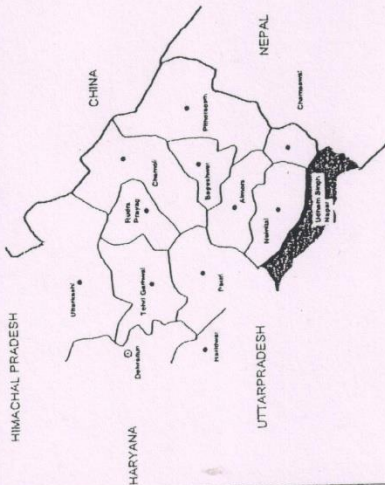
JAIL CAMP

# TOPOGRAPHICAL PLAN

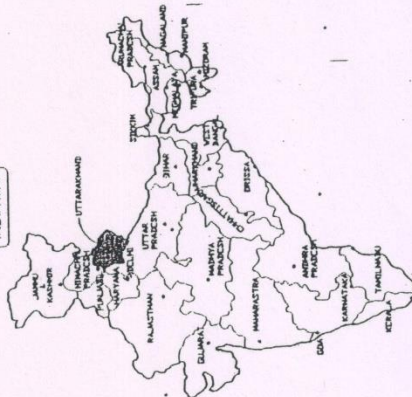
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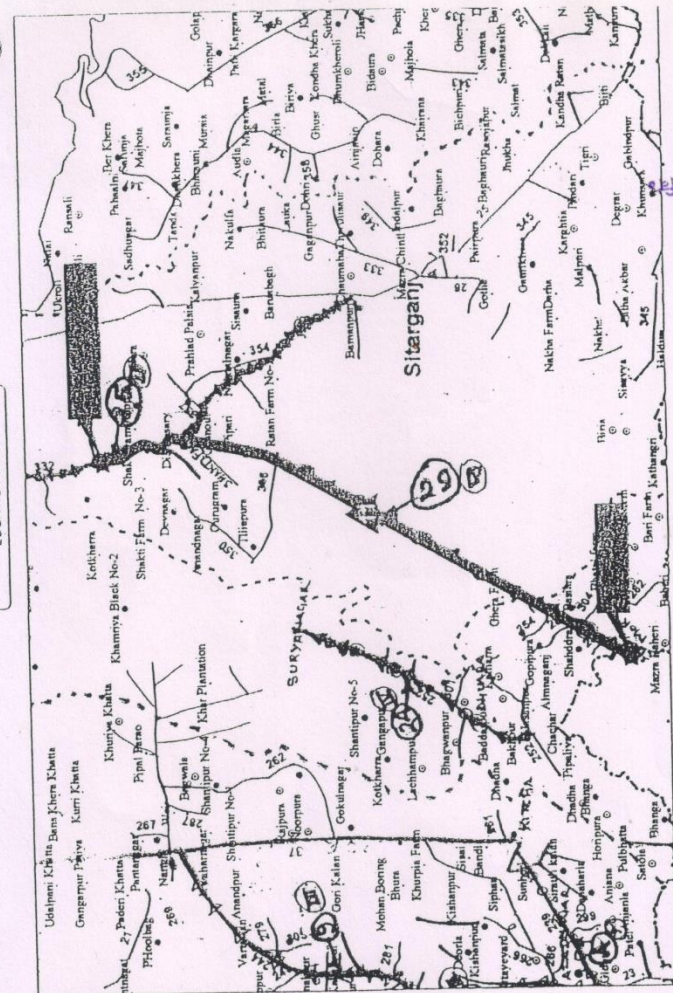
## HIMACHAL PRADESH



## INDIA MAP






## LOCATION MAP



LEGEND:-

ROAD NO.	CATEGORY	NAME OF ROAD	BLOCK	DISTRICT	LENGTH IN KM
—	VR	SIRSA MOR TO JAIL CAMP ROAD	SITARGANJ	UDHAMSINGH NAGAR	22+018

	<b>PROJECT TITLE:</b> PREPARATION OF DETAILED PROJECT REPORT, UTTARAKHAND STATE ROAD INVESTMENT PROGRAMME (USIRP) - PHASE III, PACKAGE V: AOB PROJECT		<b>CLIENT:</b>  GOVERNMENT OF UTTARAKHAND OFFICE OF THE SECRETARY, POWER & INDUSTRIES ELECTRICITY DIVISION, PLOT-3, BHEEMNATH, DELHI (INDIA) (2014-2015-2016)		<b>CONSULTANT:</b>  NTS ENGINEERING & CONSTRUCTION PVT. LTD. 14, 27A, KANUNJ NAGAR NEW DELHI-110002 (INDIA)		<b>DATE:</b> 14/07/2016 <b>TIME:</b> 10:30 AM		<b>APPROVAL:</b>	
	<b>REVISION:</b>	<b>DATE:</b>	<b>DESCRIPTION:</b>	<b>APPROVAL:</b>	<b>DATE:</b>	<b>TIME:</b>	<b>APPROVAL:</b>	<b>DATE:</b>	<b>TIME:</b>	<b>APPROVAL:</b>

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## Detailed Project Report

Cost Estimate

PROJECT: USRIP, PHASE - III, PACKAGE - 5

ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti farm (VR - Udhm S. Nagar Dist.)

NEW ROAD No: 11 and Const. Pkg. 19

Item No.	Description	Unit	Estimated Quantity	Rate (Rs) as on 2018	Amount (Rs)
Bill No. 1 - SITE CLEARANCE AND DISMANTLING					
1.01	Cutting of Trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all leads and lifts and earth filling in the depression/pit and as per relevant clauses of section-201 (MORD)			270.60	1353.00
a)	Girth beyond 600mm to 900mm	Each	5	248.00	1,240.00
1.02	Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per Technical Specification Clause (MORD) 201.	Hectare	9.00	25032.40 22,278.00	225831.60 200,502.00
1.03	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 of 1000 m as per Technical Specification Clause (MORD) 202.			612.30	11039.40
b)	Reinforcement Concrete	cum	18.00	520.00	9360.00
c)	Brick work in cement mortar	cum	180	472.00	84960.00
a)	Dismantling gurad rail / RCC Railing	m	26	41.00	1066.00
1.04	Dismantling of Flexible Pavements			45.10	1172.60
a)	Bituminous courses	cum	9506	367.00	3,488,702.00
1.05	Dismantling Kilometre Stones				
a)	Dismantling of kilometre stones including cutting of earth, foundation and disposal of dismantled material with all lifts and lead upto 1000 m and backfilling of pit as per Technical Specification Clause (MORD) 202.			115.00	2645.00
a)	Ordinary Kilometer stone (Precast)	each	23	102.00	2346.00
1.06	Rebate towards salvage value of dismantled material from pavement and structures as per Technical Specification Clause (MORD) 202.				
a)	RCC structures including reinforcement	cum	18	(600.00)	(10,800.00)
b)	Brick work in cement mortar	cum	180	(550.00)	(99,000.00)
a)	Guard stone/ kilometre stone/sign post/hect.stones	each	23	(129.00)	(2,967.00)
Bill No.1 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)					
39.84 Lacs 3984379.00					
BILL NO. 2 EARTH WORK					
2.01	Scarifying existing granular surface to a depth of 50 mm and disposal of scarified material with a lift upto 3 m and leads upto 1000 m as per Technical Specification Clause (MORD) 301.4.	sq m	8874.00	12.00 12.70	112699.80 106,488.00

(इं. गिरीश चंद्र जोशी)

सहायक अभियन्ता-III

निर्माण खण्ड (ए.डी.बी.) लो.नि.वि.

रूडवर (उधमसिंह नगर)

Assistant Engineer निर्माण खण्ड-2 लो.नि.वि.  
Const. Divn.No.2 P.W.D. रूडीखण्ड.



## Detailed Project Report

Cost Estimate

PROJECT: USRIP, PHASE - III, PACKAGE - 5

ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti farm (VR - Udhm S. Nagar Dist.)

NEW ROAD No: 11 and Const. Pkg. 19

Item No.	Description	Unit	Estimated Quantity	Rate (Rs) as on 2010	Amount (Rs)
2.02 31194-3-2-1 MORD	Scarifying the existing bituminous road surface to a depth of 150 mm and disposal of scarified material with a lift upto 3 m and lead upto 1000 m as per Technical Specification Clause (MORD) 301.4.	sq m	0.00	<del>8.00</del> 9.50	0.00
2.03 ✓ 31190-3-3-2-0 MORD a)	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3		73546-0	41.90 <del>8.50</del>	3081577.40 10379823.50
	Soil	cum	123,165.00	46.00	5,665,990.00
2.05 31195-3-3- MORD	Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause (MORD) 301.5	cum	0.00	<del>52.00</del> 47.90	0.00
2.06 ✓ 31196-3-4 MORD	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause (MORD) 301.5	Cum	6952.00	47.90 <del>239.00</del> 226.00	333000.80 1,661,528.00 2541433.80
2.07 ✓ 31213-3-14 MORD	Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause (MORD) 303.1.			<del>329.80</del>	21893778.00
a)	Subgrade (CBR greater than or equal to 7%)	Cum	66385.00	47.90	3179841.50
b)	Earthen Shoulder (CBR greater than or equal to 7%)	Cum	51580.00	<del>240.00</del>	12,379,200.00
2.08 ✓ 31215-3-15-2 MORD	Loosening of the ground upto a level of 300 mm below the subgrade level, watered, graded and compacted in layers to meet requirement of Tables 300.1 and 300.2 for subgrade construction as per Technical Specification Clause (MORD) 303.5.2.	Cum	0.00	<del>48.00</del> 53.60	0.00
Bill No.2 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)			23718 lac, 25718804.00		
Bill No. 3 - SUB-BASE, BASE-COURSES			51938869.80		
3.01 31216-4-1-1 MORD	Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause (MORD) 401.			1232.20	46732417.20
a)	GSB Grading I	cum	37926	4160.00	43,994,160.00

(इ० गिरिश चंद्र जोशी)  
सहायक अभियन्ता-II  
निर्माण खण्ड (ए०डी०बी०) लो०नि०वि०  
रुद्रपुर (उधमसिंह नगर)

Assistant Engineer  
Constt. Divn. No. 2 P.W.D.  
Nainital

अभिमान अभियन्ता  
निर्माण खण्ड-2 लो०नि०वि०  
नैनीताल



## Detailed Project Report

## Cost Estimate

PROJECT: USRIP, PHASE - III, PACKAGE - 5

ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti farm (VR - Udham S. Nagar Dist.)

NEW ROAD No: 11 and Const. Pkg. 19

Item No.	Description	Unit	Estimated Quantity	Rate (Rs) as on 2010	Amount (Rs)
3.02	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density as per Technical Specification Clause (MORD) 405.				
a)	WBM Grading I <i>31240-4-7-1-A MORD</i>	cum	10320	<i>1114.0</i>	<i>11496480.0</i>
b)	WBM Grading II <i>31842-4-7-2-A MORD</i>	cum	26914	<i>1173.0</i>	<i>31570122.0</i>
c)	WBM Grading III <i>31244-4-7-3-A MORD</i>	cum	25875	<i>1226.0</i>	<i>31722750.0</i>
BILL NO.3 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)					<i>121521769.0</i>
BILL NO. 4 - BITUMINOUS PAVEMENT COURSES / CEMENT CONCRETE PAVEMENT					<i>121522100.0</i>
4.01	Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base with low porosity WMM or WBM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm with pressure distributor and as per relevant clause of Section-502 (MORTH).	Sqm	161237	<del>23.00</del> 29.60	<del>3708451.00</del> 477265.20
4.02	Tack Coat <i>32638-5-1 MORTH</i>				
a)	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 kg per sqm on the primed granular surface cleaned with mechanical broom as per clause No. 502.4.3.(MORTH). <i>31271-5-2-3 MORD</i>	Sqm	161237	<del>10.70</del> 40.00	<del>1725235.90</del> 4612370.00
b)	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous surface cleaned with mechanical broom as per clause No. 502.4.3.(MORTH). <i>32639-5-2 MORTH</i>	Sqm	161237	<del>8.10</del> 8.00	<del>1306019.70</del> 1289896.00
4.03	Providing and laying Dense Graded Bituminous Macadam (DBM) course complete as per Technical Specification Clause (MOSRTH) 507 and conforming to Table 500-10.				
a)	for Grading I ( 80-100 mm thickness ) <i>31645-5-6-1 MORTH</i>	cum	14512	<del>6434.00</del> 6563.70	<del>93370208.00</del> 95252414.40
4.04	Semi - Dense Bituminous Concrete (Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 % of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoSRTH specification clause No. 508 complete in all respects) <i>32647-5-7-1 MORTH</i>				
a)	for Grading I ( 13mm nominal agg size and 35-40 mm thickness )	cum	6456	<del>6473.00</del> 6835.10	<del>41789688.00</del> 44127405.60
4.05	Cement Concrete Pavement				
a)	Dry Lean Concrete <i>32679-6-1-1 MORTH</i>	cum	1,039.00	<del>2749.00</del> 2216.20	<del>2856211.00</del> 2302631.80

*Plh Ch. Khed*  
 (इ० गिरीश चंद्र जोशी)  
 सहायक अभियन्ता-II  
 निर्माण खण्ड (ए०टी०बी०) लो०नि०वि०  
 रुद्रपुर (उधमसिंह नगर)

*CS*  
 Assistant Engineer  
 Const. Divin.No.2 P.W.D.  
 Nainital

*8*  
 अधिसाक्षी  
 निर्माण खण्ड-2 लो०नि०वि०  
 नैनीताल



## Detailed Project Report

Cost Estimate

PROJECT: USRIP, PHASE - III, PACKAGE - 5

ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti farm (VR - Udhm S. Nagar Dist.)

NEW ROAD No: 11 and Const. Pkg. 19

Item No.	Description	Unit	Estimated Quantity	Rate (Rs) as on 2010	Amount (Rs)
	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.				
31572-6-4-MORD	Pavement quality Concrete Construction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M40 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and  appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and  plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant, dowel bars, near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days, using curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause (MORD) 1501	cum	2,077.00	<del>5,460.00</del> 4537.10	<del>11,340,420.00</del> 9423556.70

Bill No.4 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)

158909879.00

BILL NO.5.A - REPAIR OF EXISTING CULVERTS

31572-12-4-3-MORD	5.A.01	Stone masonry in 1:5 cement mortar for Retaining wall, Drains, Parapet wall etc. complete as per drawing & technical specification Clauses 702, 704, 1202 and 1204.	Cu.m.	0.00	<del>2,500.00</del> 1795.60	0.00
31559-12-1-3-MORD	5.A.02	Brick masonry work in cement mortar in Retaining wall, Drains; parapet wall etc. complete excepting pointing and plastering, as per drawing and technical specification Clauses 602, 603, 604, 1202 & 1204	Cu.m.	16.00	<del>3,393.00</del> 3908.20	<del>54,288.00</del> 62531.00

Bill No.5.A TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)

0.63 Lacs - 62531.00

BILL NO. 5 - BRIDGES, SLAB / PIPE CULVERTS AND SCUPPERS

31522-14-1-3-MORD	5.01	Earthwork in excavation for structures as per drawing and technical specifications Clause (MORD) 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.			143.60	2257104.00
		Soil	cum	15718	<del>127.00</del>	<del>1,006,186.00</del>

(इं० निरीक्षक के.डी.जी.)

सहायक अभियन्ता-II

निर्माण खण्ड (ए०डी०वी०) सो०नि०नि०

सिर्समोर (उधमसिंह नगर)

Assistant Engineer  
Consult. Divn.No.2 P.W.D.  
Nainital

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Detailed Project Report

Cost Estimate

PROJECT: USRIP, PHASE - III, PACKAGE - 5

ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti farm (VR - Udham S. Nagar Dist.)

NEW ROAD No: 11 and Const. Pkg. 19

Item No.	Description	Unit	Estimated Quantity	Rate (Rs) as on 2010	Amount (Rs)
5.02	Backfilling behind abutment, wing wall, retaining wall, breast wall and return wall complete as per drawings & technical specifications Clause (MORD) 1204.3.8 <i>31586-12-3-1000</i>	cum	2508	<del>270.30</del> 1,014.00	<del>677912.40</del> 2,543,112.00
5.03	Providing and laying filter media with granular crushed aggregates as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and technical specification Clause 1204.3.8 <i>31587-12-11 MORD</i>	cum	108	<del>1135.20</del> 1,214.00	<del>122601.60</del> 1,311,120.00
5.04	Providing and laying leveling course of plain cement concrete below foundation, footings etc. with all leads and lifts as per drawings and technical specifications Clause (MORD) 802, 803, 1202 & 1203 <i>31530-11-4-1-2 MORD</i>				
a)	PCC M10	cum	415.00	<del>3506.90</del> 3,443.00	<del>1455368.50</del> 1,428,845.00
5.05	Brick masonry work in cement mortar in foundation and sub structure complete excluding pointing and plastering as per drawing and technical specifications Clause (MORD) s 600, 1202 & 1203 <i>31538-12-1-3 MORD</i>				
a)	cement mortar 1:5	cum	0.00	<del>3908.20</del> 3,541.00	0.00
5.06	Stone masonry in cement mortar for foundation and substructure complete as per drawing & technical specification Clauses (MORD) 702, 704, 1202 and 1204 <i>31564-12-4-3 MORD</i>				
a)	Coursed rubble masonry in cement mortar 1:5	cum	1300.00	<del>2538.00</del> 2,750.00	<del>3299400.00</del> 3,575,000.00
b)	Randon rubble masonry in cement mortar 1:5 <i>31572-12-4-3 MORD</i>	cum	0.00	<del>2609.00</del>	0.00
5.07	Providing and laying plain cement concrete for foundation and substructure of abutment, return wall, wing wall, head wall of HP CD's, pillar, guard wall, causeways excluding cost of skin reinforcement, but including treatment of joints between existing new structures with all leads and lifts as per drawings and technical specifications Clause (MORD) 802, 803, 1202 & 1203			1795.60	
a)	PCC M15 <i>Amroli 31531-11-4-2-1 MORD</i>	cum	10262.00	<del>3636.30</del> 3,659.00	<del>37315710.60</del> 37,548,658.00
b)	PCC M20 <i>Amroli 31532-11-4-3-1 MORD</i>	cum	406.00	<del>4116.00</del> 4,156.30	<del>1,671,096.00</del> 1,697,457.80
5.08	Providing and laying Reinforced Cement Concrete for foundation and sub structure of abutment, box, return wall, wing wall, slab and head wall causeways but excluding cost of reinforcement including treatment of joints between existing and new structures with all leads and lifts complete as per drawings and technical specifications Clause (MORD) s 802, 804, 805, 806, 807, 1202 and 1204 <i>Amroli 31535-12-4-4-1 MORD</i>				
a)	RCC M20	cum	371.00	<del>4317.80</del> 4,293.00	<del>1601718.30</del> 1,592,703.00
5.09	Providing and laying Reinforced Cement Concrete for super structure of all solid slab/ T-Beam slab / approach slab/ R.C.C Box super structure / wearing coat / railing / kerb etc. for CD's and bridges excluding cost of reinforcement, including treatment of joints between existing and new structures with all leads and lifts as per drawings and technical specifications Clause (MORD) s 800, 1205.4 and 1205.5				
b)	RCC M25 <i>Amroli 31537-12-5-2-1 MORD</i>	cum	0.00	<del>4549.40</del> 4,984.00	0.00

Philo Coy

(इ० गिरिश चन्द्र जोशी)

सहायक अभियन्ता-II

निर्माण खण्ड (ए०.टी०.बी०) लो० नि० वि०

रुद्रार (उधमसिंह नगर)

Assistant Engineer

146

अभिषा

निर्माण खण्ड-2 लो० नि० वि०



## Detailed Project Report

Cost Estimate

PROJECT: USRIP, PHASE - III, PACKAGE - 5

ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti farm (VR - Udhm S. Nagar Dist.)

NEW ROAD No: 11 and Const. Pkg. 19

Item No.	Description	Unit	Estimated Quantity	Rate (Rs) as on 2010	Amount (Rs)
31596-13-3 MORD	c) RCC M30	cum	905.00	<del>6,279.00</del> 4948.90	5,682,495.00 44,78,754.80
5.10 31549-11-76 31580-12-6 MORD	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in foundation and substructure complete as per drawings and technical specifications Clause (MORD) s 1000, 1002, 1005, 1010 & 1202	MT	734	<del>51,846.00</del> 55638.35	38,054,964.00 40,86,056.90
5.11 Ratashan analysis	Providing and laying Plum cement concrete M15 mix in 40:60 ratio having 40% plum and 60% concrete in parapet wall and other protective works near the existing structures and at other places as and when required using stone aggregates of 20 mm nominal size with mixing mechanically, vibrating with needle vibrator, hire charges of machinery, loading, unloading, curing, finishing the exposed faces etc, complete with all lead and lift [MoRT&H Specification : Section 1000, 1700]	cum	0.00	2,760.00	0.00
5.12	Providing and laying reinforced cement concrete pipe NP4 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.				
- 06 -	a) Dia 2000 mm (internal)	m	405.00	6,586.00	2,667,330.00
31444-9-4-A MORD	b) Dia 1200 mm (internal)	m	475.00	<del>4,005.00</del> 5717.50	4,902,375.00 27,15,812.50
5.13	Construction of R.C.C. railing of M 25 grade in cast-in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical railing post not to exceed 1 in 500, centre-to-centre spacing between vertical posts not to exceed 2000 mm as per drawing and technical specifications Clause (MORD) s 800, 900 and 1208.3	m	25	<del>2,094.00</del> 2152.00	52,350.00 53,800.00
3161-13-6 MORD	5.14 Drainage spouts complete as per drawing and technical specifications Clause (MORD) 1209	no.	0	<del>12,67.90</del> 1,285.00	0.00
3165-13-10 MORD	5.15 Providing and fixing in position bearings true to line and level complete as per drawings and technical specification Section MOSRTH 1207.2.5				
Ratashan analysis	a) Tar paper bearings as per IS:1398	sqm	0.00	110.00	0.00
5.16 31612-13-16-16 MORD	Filler Joint			<del>1588.50</del> 4,078.00	3,1770.00 81,560.00
31615-13-16-4 MORD	Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight.	m	20		
5.17 31583-12-9 MORD	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications Clause (MORD) 614, 709, 1204.3.7	no.	1565	<del>161.30</del> 118.00	252,434.50 184,670.00
31633-14-1 MORD	5.18 Providing and laying boulder apron for bed protection with stone boulders of minimum size and weight as per Table 1300.1, no fragment weighing less than 25 kg laid dry complete as per drawing and technical specifications Clause (MORD) 1301	cum	44	<del>593.70</del> 4,074.00	26,122.80 47,256.00
31638-14-5-1 MORD	5.19 Providing and laying pitching on slopes laid over prepared filter media as per drawing and technical specifications Clause (MORD) 1302	cum	54	<del>593.70</del> 4,074.00	32,059.80 57,996.00

(हं गिरीश चन्द्र जोशी)

सहायक अभियन्ता-II

निर्माण खण्ड (एंडीबी) लोनिवि

हदर (उधमसिंह नगर)

अभिः तन्ता 147  
निर्माण : 10 निवि  
नं. 1.11.



Cost Estimate

Detailed Project Report

PROJECT: USRIP, PHASE - III, PACKAGE - 5

ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti farm (VR - Udhm S. Nagar Dist.)

NEW ROAD No: 11 and Const. Pkg. 19

Item No.	Description	Unit	Estimated Quantity	Rate (Rs) as on 2010	Amount (Rs)
5.20	Providing and laying filter material underneath pitching in slopes complete as per drawing and technical specifications Clause (MORD) 1302 <i>31641-14-6 MORD</i>	cum	27	<del>1,243.00</del> 1205.70	<del>33,561.00</del> 32553.90
5.21	Providing and laying flooring laid over cement concrete bedding complete as per drawing and technical specifications Clause (MORD) 1303 <i>31642-14-7 MORD</i>	cum	105	<del>2,561.10</del> 2,662.00	<del>268,915.50</del> 280,510.00
a)	Rubble stone laid in cement mortar 1:3				
5.22	Providing and laying curtain walls of brick masonry in 1:4 cement sand mortar all complete as per drawing and technical specifications Clause (MORD) 1304 <i>31646-14-9 MORD</i>	curh	70.00	<del>6,763.90</del> 3,478.00	<del>4,73,473.00</del> 243,460.00
5.23	Construction of flexible apron 1 m thick comprising of loose stone boulders weighing not less than 25 kg beyond curtain wall <i>31647-14-10 MORD</i>	cum	261	<del>6,099.00</del> 1,098.00	<del>1,59,157.80</del> 286,578.00
5.24	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause (MORD) 1701 <i>31502-14-5 MORD</i>	sq m	16	<del>70.80</del> 107.00	<del>1,132.80</del> 1,712.00
5.25	Painting of structure no., span arrangement and flow directions complete as per drawing and technical specification section 800	No.	166	83.00	13,778.00
Bill No.5 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)					100404933.00
BILL NO.6.B - REPAIR OF EXISTING BRIDGES					
6.B.01	Clearing and grubbing including uprooting wild vegetation, grass, bushes, shrubs, saplings and disposable unserviceable materials upto a lead of 1000 m as per technical specification clause (MORD) 201 by Manual Means, for removing vegetation around column, deck slab, approach slab and Return Walls.	ha	0.90	<del>22,278.00</del> 25092.40	<del>20,050.20</del> 22503.16
6.B.02	Removal of defective concrete, cleaning the surface thoroughly, applying the shotcrete mixture mechanically with compressed air under pressure, comprising of cement, sand, coarse aggregates, water and quick setting compound in the proportion as per clause 2807.1., sand and coarse aggregates conforming to IS: 383 and table 1 of IS: 9012 respectively, water cement ratio ranging from 0.35 to 0.50, density of gunite not less than 2000 kg/cum, strength not less than 25 Mpa and workmanship conforming to clause 2807.6.	sqm	0.00	<del>181.00</del> 283.00	0.00
6.B.03	Painting of structure no., span arrangement and flow directions complete as per drawing and technical specification section 800	No.	2	83.00	166.00
6.B.04	Cleaning of Drainage spout	No.	0	250.00	0.00
6.B.05	River training works	No.	0	<del>100,000.00</del> 1394.80	<del>0.00</del> 36240.40
6.B.06	Repair of RCC railing <i>31678-15-10-2 MORD</i>	L.m.	28	<del>1,364.00</del> 11.00	<del>38,192.00</del> 616.00
6.B.07	White washing on existing bridges super structure <i>31682-15-13 MORD</i>	sqm	56	<del>11.20</del>	<del>627.20</del>
Bill No.6.B TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)					59617.17
BILL NO.7 - CAUSEWAY					
7.01	Providing and laying leveling course of plain cement concrete below foundation, footings etc. with all leads and lifts as per drawings and technical specifications Clause (MORD) 802, 803, 1202 & 1203			<del>3,526.90</del>	
a)	PCC M10 <i>31539-14-14-7 MORD</i>	cum	0.00	<del>3,442.00</del>	0.00

*M. S. Chaudhary*  
(हं गिरीश चंद्र जोशी)  
सहायक अभियन्ता-II  
निर्माण खण्ड (ए०डी०बी०) लो०नि०वि०  
रुद्रा (उधमसिंह नगर)

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अभिषासी अभियन्ता  
निर्माण खण्ड-2 लो०नि०वि०  
वैनीताल.