

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	1,243.00 1205.70	33,561.00 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	2,561.10 2,662.00	268,915.50 280,510.00
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	6,763.90 3,478.00	4,73,473.00 243,460.00
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	6,099.00 1,098.00	15,91,578.00 286,578.00
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	70.80 107.00	1,132.80 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	22,278.00 25092.40	20,050.20 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	181.00 283.00	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	100,000.00 1394.80	0.00 36240.40
6.B.06	Repair of RCC railing <i>31678-15-10-2 MORD</i>	L.m.	28	1,364.00 11.00	38,192.00 616.00
6.B.07	White washing on existing bridges super structure <i>31682-15-13 MORD</i>	sqm	56	11.20	627.20
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			3,526.90	
a)	PCC M10 <i>31539-14-14-7 MORD</i>	cum	0.00	3,442.00	0.00

M. S. Chaudhary
(हं गिरीश चंद्र जोशी)
सहायक अभियन्ता-II
निर्माण खण्ड (एंडी.वी.) लो.नि.वि.
रुद्रा (उधमसिंह नगर)

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अभिषासी अभियन्ता
निर्माण खण्ड-2 लो.नि.वि.
वैनीताल.

Cost Estimate

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)
7.02 <i>Aug 11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	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			42317.30	
a)	RCC M20	cum	0.00	4293.00	0.00
7.03 <i>Aug 11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	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	0.00	51846.00 55668.35	0.00
Bill No.7 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)					0.00
BILL NO. 8 - DRAINAGE & PROTECTIVE WORKS					
8.01 <i>11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	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	2729261.60
a)	all types of Soil	Cu.m.	19006.00	122.00	2318732.00
8.02 <i>11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	Backfilling behind abutment, wing wall, retaining wall, breast wall and return wall complete as per drawings & technical specifications Clause (MORD) 1204.3.8	cum	0	1014.00 270.30	0.00
8.03 <i>11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	Providing concrete for plain/reinforced concrete M10, 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing and technical specifications Clause (MORD) 802, 803, 1202 & 1203	Cu.m.	580.00	3299.00 3506.90	1913420.00 2034802.00
8.04 <i>11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	Plain/Reinforced Cement Concrete M-15 grade for drain rehabilitation and Key Stone complete as per Drawing and Technical Specifications.	Cu.m.	1566.00	3506.00 3549.50	5490396.00 5558517.50
8.05 <i>11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	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	2500.00 1795.60	0.00
8.06 <i>11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	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
8.07 <i>11-24</i> <i>11-24</i> <i>11-24</i> <i>11-24</i>	Composite wall for Breast wall comprising Brick work in 1: 5 cement mortar masonry and Dry masonry as shown in the drawing complete except pointing and plastering, as per drawing and technical specification Clauses 602, 603, 604, 1202 & 1204	Cu.m.	0.00	2,213.00	0.00

(हं० गिरीश चन्द्र जोशी)

सहायक अभियन्ता-II

निर्माण खण्ड (ए०डी०बी०) लो०नि०वि०

रुद्रपुर (उधमसिंह नगर)

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

विमर्षि १७३. लो० नि० वि०
न. माल.

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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 2010	Amount (Rs)
8.08	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 <i>31583-12-9 MORD</i>	no.	0	148.00 161.30	0.00
8.09	Plastering with cement mortar (1:4), 15 mm thick on brickwork/Stone masonry in parapet wall as per technical specification Clauses (MORD) 613.4 & 1204 <i>31561-12-3-MORD</i>	Sq m	522.00	112.00 12.50	58,464.00 6525.00
8.10	Providing hand Packed boulder filling behind Breast wall and Retaining wall as per drawing and Technical Specification Clause 2504 (MOSRTH) <i>31504-12-10-1 MORD</i>	Cu.m.	0.00	265.70 1,214.00	0.00
8.11 <i>31683-15-1 MORD</i>	White washing two coats on parapet walls and tree trunks including preparation of surface by cleaning scraping etc. as per technical specifications Clause (MORD) 1915	Sq m	532.00	11.20 11.00	5958.40 5,852.00
Bill No.8 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)					10334264.00
BILL NO. 9 - TRAFFIC SIGNS, MARKING AND ROAD APPURTENANCES					10334264.00
9.01	Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and technical specifications Clause (MORD) 801				
a)	600 mm equilateral triangle - Cautionary Sign <i>31467-10-2-A(II) MORD</i>	each	50.00	3,658.00 1896.00	1,82,900.00 94500.00
b)	600 mm circular - Mandatory Signs <i>31468-10-2-A(I)(ii) MORD</i>	each	15.00	2,355.00 48,615.00	35,325.00 729,225.00
c)	800 mm x 600 mm rectangular <i>31469-10-2-A(I)(i) MORD</i>	each	8.00	2,530.90 20,311.20	20,247.20 162,497.60
d)	600 mm x 450 mm rectangular <i>31470-10-2-A(I) MORD</i>	each	0.00	5,079.00 0.00	0.00
e)	600 mm side octagon - Stop Sign	each	2.00	5,428.00	10,856.00
9.02	Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 x 450 x 600 mm, 600 mm below ground level as per approved drawing and technical specifications Clause (MORD) 1701 <i>31494-10-3-A(II) MORD (Rate as per M.P. 2004 by 800x600)</i>				
a)	800 mm x 600 mm	each	0.00	6,892.00 0.00	0.00
b)	600 mm x 450 mm <i>Rate as per M.P. 2004 by 600x450</i>	each	26.00	3,879.00 1119.07	100,854.00 29095.73

(इं० गिरिश चन्द्र जोशी)
सहायक अभियन्ता-II
निर्माण खण्ड (ए०डी०वी०) लो०नि०वि०
बुधपुर (उधमसिंह नगर)

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

अभिजासी अभियन्ता
निर्माण खण्ड-2 लो०नि०वि०
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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)
9.03	Providing and erecting direction and place identification retro-reflecterised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and technical specifications Clause (MORD) 1701			4058.02	24348.10
a)	1200 mm x 800 mm	each	6.00	14,148.00	84,888.00
9.04	Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and technical specifications Clause (MORD) 1703	each	23.00	1539.30	35403.90
	Ordinary Kilometer stone (Precast)	each	88.00	2,587.00	50,501.00
	Hectometer stone (Precast)	each		553.00	48,664.00
9.05	Reinforced cement concrete M15 grade boundary pillars/local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per drawing and technical specifications Clause (MORD) 1704	each	220.00	426.00	93,720.00
				348.30	76,626.00
9.06	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/concrete surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per drawing and technical specifications Clause (MORD) 1702	sqm	9,542.00	65.00	620,230.00
a)	Lane/centreline/edge marking/transverse and any other marking			107.00	1,020,094.00
9.07	Construction of RCC guard posts of 250 mm dia M20 grade cast-in situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical RCC posts not to exceed 1 in 500 as per drawing and Technical Specification Clause 1608.2 including the cost of reinforcement.	no.	1,718.00	1,113.00	1,912,134.00
9.08	Providing and fixing road delineators complete as per technical specification Section 800.				
	Rectangular hazard marker 600 mm x 300 mm made out of 2 mm thick aluminium sheet, face to be fully covered by high intensity grade white retro reflective sheeting of encapsulated lens type. The background/border/symbols shall be made by screen printing of desired colour as per sign details. The sign plate shall be fixed with 6 mm dia aluminium rebates on MS angle iron frame. The angle iron frame shall be made with angle of size 40 mm x 40 mm x 5 mm. The sign shall be fixed to 80 mm dia (NB) MS pipe (MW) support with nut bolts and welding.	Nos.	0.00	2,282.00	0.00
	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 strips, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 and the drawings.	Nos.	577.00	1203.40	694,361.80
				901.00	404,477.00

(इ० गिरीश चन्द्र जोशी)

सहायक अभियन्ता-II

निर्माण खण्ड (ए०डी०बी०) लो०वि०वि०

रूडपर (उधमसिंह नगर)

Assistant Engineer

Const. Divin. No. 2

Nainital

पन्ना 151

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Detailed Project Report

Cost Estimate

PROJECT: USRIP, PHASE - III, PACKAGE - 5

AB 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)
10.01	Type - A, "W" : Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fittings to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel Section 150 x 75 x 5 mm, 330 mm long complete as per clause 810 of specifications 32732-8-15 (MORTH)	metre	792.00	2474.00 2547.00	1959724.80 2017324.00 ✓
10.02	Providing and laying Gabion Wall construction in breast wall & retaining wall using 3.70 mm dia. G.I. wire mesh size ASTM 975 (100 mm x 120 mm) with zinc coating (@ 275 gms/sqm) including boulder filling, stitching, laid in position including transportation of boulder with all lead and lifts all complete as drawing or as per instruction from engineer at site.	cum	5,000.00	1,790.00	8,950,000.00

Bill No.9 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)

BILL NO.10 - MISCELLANEOUS

144.98 lac. 14498443-69

10.01	Providing and constructing new passenger shelter complete as per drawing and Additional technical specification Appendix - A6	No.	4.00	97,050.00 102514-00	388,200.00 410056.00 ✓
10.02	Providing furnished Site office accommodation for the Employer / PIU all complete as per technical specifications Clause (MOSRTH) 120	Month	12.00	10,000.00	120,000.00
10.03	Providing & Maintaining vehicle for Employers representative and his support staff including Driver, POL etc complete as per technical specifications Clause (MOSRTH) 124. Hard Top Passenger Car with A/c - 2 Nos.	Vehicle Month	0.00	40,000.00	0.00
10.04	Supply of colour record photographs with CD and colour prints in size (4" x 6") mounted in standard size album in two copies each as per technical specifications Clause (MOSRTH) 125	No. of Prints	220.00	20.00	4,400.00
10.05	Supply of additional prints (8" x 10") of coloured photographs as per Technical Specification Clause 125	No. of Prints	220.00	16.00	3,520.00
10.06	Supply of laptop for Engineers as per specification ,CPU-Core 2 Duo 2.4 GHZ, RAM-2 GB or more,Hdd-160 GB,DVD RW,Battery Back up should be 9 cell,Windows XP plo or equivalent.	No	2.00	50,000.00	100,000.00 0.00

Bill No.10 TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)

537976.00

BILL NO. 11A - ROUTINE MAINTENANCE DURING CONSTRUCTION

5.33 lac 532926.00

11.A.01 326445-5 MORTH	Providing, laying and rolling of built-up-spray grout layer over prepared base consisting of a two layer composite construction of compacted crushed coarse aggregates using motor grader for aggregates. key stone chips spreader may be used with application of bituminous binder after each layer, and with key aggregates placed on top of the second layer to serve as a Base conforming to the line, grades and cross-section specified, the compacted layer thickness being 75 mm	Sqm	0.00	236.00 239.00	0.00
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(इ० गिरीश चन्द्र जोशी)

सहायक अभियन्ता-II

निर्माण खण्ड (ए० डी० वी०) लो० नि० वि०

रुद्रपुर (उधमसिंह नगर)

Assistant Engineer

Const. Divn.No.2 P.W.D.

Nainital

अभिषासी अभियन्ता

निर्माण खण्ड-2 लो० नि० वि०

देवीताल.

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)
11.A.02 31670-15-4 MORD	Maintenance of gravel road including making up the loss of profile, rectifying corrugated surface, filling up of depressions, pot holes and erosion gullies by adding fresh material and compacting it with appropriate equipment or to strip excess of material from the road surface as per drawings and technical specification Clause 1905	sqm	2113.00	277.20 261.00	585723.60 551,493.00
11.A.03 31670-15-5 MORD	Slip clearance / debris during construction on roadside as per the direction of the Engineer.	Cum	0.00	41.00	0.00
11.A.04 31558-121-3 MORD	Repair to Brick masonry in cement mortar 1:5 for Retaining wall, Breast wall etc complete as per Technical Specifications Clause 1400.	Cum	0.000	390820 2,541.00	0.00
11.A.05 31670-15-71 MORD	Maintenance of Hume pipe Culvert by way of Clearing, Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and technical specification Clause (MORD) 1908.			841.00	46255.80
a) Hume Pipe Culvert/ Scooper		no.	55.00	686.00	37,730.00
b) Slab Culvert		no.	5.00	4,401.00	2,005.00
11.A.06 31679-15-11 MORD	Maintenance of km stone by way of refitting of tilted stones repairing with cement mortar, cleaning, repairing and lettering on km stone as per drawing and technical specification Clause 1912	no.	0.00	1573.00 208.00 501.60	7865 0.00
Bill No.11.A TOTAL (carried forward to ABSTRACT OF COST ESTIMATE)				54120.00	639864.00

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

(ई० गिरीश चन्द्र जोशी)
सहायक अभियन्ता-II
निर्माण खण्ड (ए०डी०वी०) लो०नि०वि०
रुद्रपुर (उपमहानगर)

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

Bill No. 11 B - Maintenance Cost post Construction

Item No.	Description	Unit	Estimated Quantity	Percentage	Cost of civil works of the project (Rs.)	Amount (Rs)
11.B.01	Maintenance cost post construction in 1st Year	Km	22.018	0.40%	466188891.40 455376412.00	186475236 182150563
11.B.02	Maintenance cost post construction in IIInd Year	Km	22.018	0.60%	466188891.40 455376412.00	279712877 273225847
11.B.03	Maintenance cost post construction in IIIrd Year	Km	22.018	1.00%	466188891.40 455376412.00	466188891 455376412
	Total					9,407,528.00

9323762.00

Note : For Hill road

Maintenance cost post construction is considered as 3% of the cost of civil works.

Maintenance cost post construction for 1st year is considered as 0.5% of the cost of civil works.

Maintenance cost post construction for IIInd year is considered as 1.0% of the cost of civil works.

Maintenance cost post construction for IIIrd year is considered as 1.50% of the cost of civil works.

For plain road

Maintenance cost post construction is considered as 2.0% of the cost of civil works.

Maintenance cost post construction for 1st year is considered as 0.40% of the cost of civil works.

Maintenance cost post construction for IIInd year is considered as 0.60% of the cost of civil works.

Maintenance cost post construction for IIIrd year is considered as 1.0% of the cost of civil works.

TEAM LEADER
SMEC India Pvt Ltd
DLF Cyber City, Gurgaon

ASSISTANT ENGINEER
Construction Division - 2
PWD DEHRADUN

EXECUTIVE ENGINEER
Construction Division - 2
PWD DEHRADUN

(**६०** मीरीश चन्द्र जोशी)
सहायक अभियन्ता-II
निर्माण खण्ड (ए-डी.बी.) लो.नि.वि.
रुद्रपुर (उधमसिंह नगर)

Detailed Project Report

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ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti farm (VR - Udham S. Nagar Dist.)
NEW ROAD No: 11 and Const. Pkg. 19

Bill NO. 12: Environmental Budget

S. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
A	Environmental Monitoring				
A.1	Ambient air quality monitoring as per Appendix D	24	No.	10,000.00	240,000.00
A.2	Ambient noise level monitoring as per Appendix D	24	No.	2,500.00	60,000.00
A.3	Water quality monitoring of surface/Ground water as per Appendix D	16	No.	5,500.00	88,000.00
A.4	Soil quality monitoring of drinking water from construction camp as per Appendix D	6	No.	5,000.00	30,000.00
	Sub Total A				418,000.00
B	Mitigation & Enhancement Measure Cost				
B 1	Compensatory Afforestation at 1:10, with specification given in Appendix B (Planting and Transplanting of Trees) of Technical Specification	0	No.	1,000.00	0.00
B 2	Protection Work Like RW /BW and line drain in the project road	As per Design	RM		Included under Engineering cost
B 3	Water Sprinkling by Water Tanker at haul road (It may be village road for transportation of	750	hour	500.00	375,000.00
B 4	Bus bay and Rainy Shelter	As per	No.		Included under
	Sub Total B				375,000.00
C	Environmental Training				
C 1	EMP Training at site as per Appendix E	2	Lump	15,000.00	50,000.00
	Sub Total C				50,000.00
D	Total Environmental Cst (A+B+C)				843,000.00
E	PMC & Agency Charges @ 6% on total				50,580.00
F	Total Budgeted Cost				893,580.00
	Grand Total, in lakh.				8.94 6.43

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TEAM LEADER
SMEC India Pvt Ltd
DLF Cyber City, Gurgaon

(हं गिरिश चंद्र ओशी)
सहायक अभियन्ता-II
निर्माण खण्ड (एंडी-वी) लो.नि.वि.
रुद्रपुर (उधमसिंह नगर)

ASSISTANT ENGINEER
Construction Division - 2
PWD DEHRADUN

EXECUTIVE ENGINEER
Construction Division - 2
PWD DEHRADUN

Summary of Cost Estimate

Detailed Project Report

PROJECT: USRIP, PHASE - III, PACKAGE - 5

ROAD DESCRIPTION: NH-74 Km. 239 (Sirsamor) to Shakti

NEW ROAD No: 11 and Const. Pkg. 19

Length of Road : 22018 m

ABSTRACT OF COST ESTIMATE as on 2010

Bill No.	Description		
1	SITE CLEARANCE AND DISMANTLING	39.84	398432.00 3,621,400.00
2	EARTH WORK	757.12	519381.00 25,145,206.00
3	SUB-BASE, BASE-COURSES	1715.22	1262772.55 134,318,555.00
4	BITUMINOUS PAVEMENT COURSES / CEMENT CONCRETE PAVEMENT	1585.12	158909879.60 155,967,244.00
5A	REPAIR OF EXISTING CULVERTS	0.63	62531.00 54,288.00
5	BRIDGES, SLAB / PIPE CULVERTS AND SCUPPERS	1004.85	100484933.00 400,181,307.00
6B	REPAIR OF EXISTING BRIDGES	0.60	59617.00 59,024.00
7	CAUSEWAY	-	0.00 0.00
8	DRAINAGE & PROTECTIVE WORKS	103.34	10334264.00 9,786,864.00
9	TRAFFIC SIGNS, MARKING AND ROAD APPURTENANCES	104.92	14498443.00 15,026,395.00
10	MISCELLANEOUS	53.8	637976.00 646,120.00
	Cost of Civil works (Rs.)	4395.74	466188091.00 455,376,412.00
11A	ROUTINE MAINTENANCE DURING CONSTRUCTION	0.54	639844.00 596,228.00
11B	MAINTENANCE COST POST CONSTRUCTION		9323762.00 9,107,528.00
12	ENVIRONMENTAL BUDGET	2.03	243000.00 892,580.00
	Base Cost (A) (Rs.)	476,994,967.00	476,994,967.00
	Utility shifting and relocation (@ 2% of Base cost (A))	9,539,894.00	9,539,894.00
	Physical Contingency @ 5% on Sub Total (A)	23,849,748.00	23,849,748.00
	Financial Contingency in 1st year on sub total @ 5% on Sub Head marked "A"	23,849,748.00	23,849,748.00
	Financial Contingency in 11nd year on sub total @ 5.0% on Sub Head marked "A"	23,849,748.00	23,849,748.00
	Supervision Charges @ 6.0% on Sub Head marked "A"	28619,682.00	28619,682.00
	Social Cost for Resettlement Budget and Financing Plan		0.00
	Total Cost (Rs.)	586,703,787.00	586,703,787.00
	Total Road Length (Kms)	22.018	22.018
	Cost per Km (Rs.)	26,649,364.00	26,649,364.00
Say			Rs. 26.65 Crores per Km

(इं. गिरीश चन्द्र जोशी)
सहायक अभियन्ता II
निर्माण खण्ड (ए.डी.बी.ओ. नि.वि.)
रुद्रपुर (उधमसिंह नगर)
Assistant Engineer
Const. Divn. No. 2 P.W.D. निर्माण : पड-2 लो. नि.वि.