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(a)	201051	For 80mm expansion	meter	160	23136	37,01,804.80
8	201060	Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/Railway codes with contractor's labour, deflection measuring instruments, loading materials, recoding and analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledge/loading material etc. The load shall be 1.25 times the stipulated design load, based on design load & not span				
(a)	201061	For Span design load upto 100 MT	Each	1	66773	66,772.64
(b)	201062	Extra for every increase of 100 MT or part thereof in the span load capacity upto 800 MT	Each 100M T	1	66773	66,772.64
9	211070	Providing, fabricating & fixing in position to exact design profiles, prestressing H.T.S. cables of all classification made from Low Relaxation strands conforming to IS:14268-1995 in Prestressed Concrete girders/slabs etc. including supplying, cutting, making into cables with necessary spacers, colour coding, protecting with water soluble oil at all time, anchoring of cables, supplying and placing spiral corrugated type	MT	60	1,40,715.44	84,42,926.40

Sl. No.	Item no. of NCR USSO R - 2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
		galvanized metal steel ducts sheathing made up of Cold Rolled Cold Annealed (CRCA) mild steel conforming to IS:513 of required diameter/ thickness, vent pipe, placing, bending, routing, fixing, stressing & grouting of cable ducts with cement grout, Anchorage sets in required number with provision for future prestressing, if any including all lead and lift with contractor's own materials, labour, equipments etc. complete as per drawings & specifications. Rate also includes covering anchorage pads with epoxy mortar of approved quality to avoid corrosion. Cement for grouting to be paid separately.				
(a)	201071	Deduct for not using CRCA sheathing & other related items for pretension members from item 201070	MT	60	- 34,920.24	- 2,095,214.40
(b)	201072	Extra for using HDPE sheathing instead of CRCA sheathing	MT	60	148.67	8,920.20
10	222180	Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per IS:1498-1970 in required profile behind boulder filling of abutments, wing walls / return walls etc. above bed level with all labour and material complete job as per drawing and technical specification of RDSO Guidelines	cum	1950	1,505.65	29,36,017.50
		<b>TOTAL COST OF SCHEDULE 'A2' ITEMS</b>				<b>3,10,69,538.00</b>

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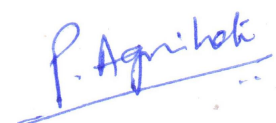
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Sl. No.	Item no. of NCR USSOR R - 2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
<b>SCHEDULE 'B2' - (ITEMS AS PER USSOR 2010 OF NC RLY OTHER THAN BRIDGE CHAPTERS)</b>						
11	234010	2.5 cm thick bitumastic sheet with hot bitumen of approved quality using stone chippings (60% 12.5 mm nominal size and 40% 10 mm nominal size) @ 1.65 cum per 100 sqm and coarse sand at 1.65 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum, of sand over a tack coat with hot straight run bitumen including consolidation with road roller of 8 to 10 tonne etc. complete, (tack coat to be paid separately) :				
(a)	234011	With paving bitumen 80/100 heated and then mixed with solvent at the rate of 70 gram per kg of asphalt	sqm	170	214.38	36,444.60
12	233010	Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS:8887-1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification				
(a)	233012	On bituminous surface @ 0.25kg/sqm	sqm	50	13.81	690.50
13	231040	Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including				

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Sl. No.	Item no. of NCR USSO R - 2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
		screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete				
(a)	231041	Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size	cum	3420	1003.48	3,431,901.60
14	231010	Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS:8887-1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification				
(a)	233012	On bituminous surface @ 0.25kg/sqm	sqm	8140	13.81	112413.4
15	238020	Providing and laying <b>Dense Bituminous</b> concrete on prepared surface with specified graded stone aggregate for wearing course, mixing of bitumen, filler & stone aggregate in hot mix plant, transporting the mixed material and laying with mechanical paver finisher fitted with electronic sensing device to the required level and grade and rolling with road rollers, as per specification to achieve the desired density and compaction, but excluding cost of primer / tack coat				
(a)	238021	40mm/50mm compacted thickness with bitumen of grade 60/70 @ 6.5% and lime @ 3% by weight of total mix	cum	1310	8351.61	10,940,609.10

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Sl. No.	Item no. of NCR USSO R - 2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
16	14110	Providing and removing barricading with the help of portable fencing along the running track where the work is to be done in close vicinity of the track. Fencing shall consist of self-supporting steel angles of size 50 x50x6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23x0.23x0.23m placed at c/c distance of 2m along the track. 12mm dia rods in three horizontal layer tack welded with the angle posts including providing retro-reflective tapes in Horizontal & vertical direction. Note: Released material will be the property of the contractor after the completion of work. Cost of cement to be paid separately.	metre	900	105.95	95,355.00
17	236070	Painting road surface marking with adequate number of coats to give uniform finish with ready mixed road marking paint conforming to IS:164, on bituminous surface in white/yellow shade including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete				
(a)	236071	New work (minimum two coats)	sqm	2590	80.90	209,531.00
18	222170	Providing and fixing of Drainage Spouts of 100mm UPVC complete as per drawing and Technical specification	metre	360	268.10	96,516.00
19	237010	Providing and fixing Cat's Eye (Glow studs) heavy integral stem,	each	900	536.96	483,264.00

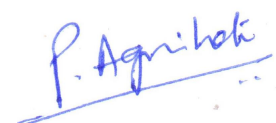
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Sl. No.	Item no. of NCR USSO R - 2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
		reflective, aluminium die cast with elegant finish of size 100mmx100mm and 20mm high having a stem of 50mm (or 12mm dia. 90mm long) screwed and nailed to fix into the road surface or at the nosing of the central verge. The road studs should have reflectors fitted on one side of the studs (3 nos. 7 element or 1 no. 29 element reflector) complete				
		<b>TOTAL COST OF SCHEDULE 'B2' ITEMS</b>				<b>1,54,06,725.00</b>

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Sl. No.	Item no.	Description of items	Unit	Qty.	Rate (Rs)	Amount (Rs)
<b>SCHEDULE 'C2' - NON-SCHEDULED ITEMS</b>						
20	NS-1	Providing and laying M-35 grade (using 43/53 grade ordinary Portland Cement) precast concrete facia wall (Area of each facia panel shall not be less than 1.5 sqm. Height shall not be less than 900mm, min 180mm thick) including design and getting the approval ` liner finishes as per the design requirements. PVC drainage pipes, 200mm precast cover facia for drainage pipes, joint filler, as per approved drawings, logo panels, geo-textile filter fabric for wrapping pipes etc. including filter media (500mm thick) behind the facia wall, drain sleeve in lower panels as per drawings and design, supplying and laying in position the specified and approved Geo- Grid soil reinforcement including cutting in required length, placing in position and connecting with the precast facia panels as per the design and drawings and direction of the Engineer-in- Charge all complete with all materials, labour, lead and lift, plants, machinery, taxes royalty etc. complete. Item to include all incidental work required to complete the job as per drawing and specifications.	sqm	3250	6352.94	2,06,47,068.17
	Notes:					
	(A)	The scope of work in the above item includes:				
	(a)	All initial layout and alignment of reinforced soil wall after site clearance and excavation in all type of soils, existing road pavement including BM, AC, WMM, WBM etc. for the construction of Reinforced Soil wall structure including all components like reinforcing element, Precast panel, etc. dismantling of footpath, planters, etc. as per the directions of Engineer-in-Charge				

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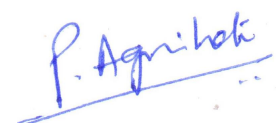


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Sl. No.	Item no.	Description of items	Unit	Qty.	Rate (Rs)	Amount (Rs)
		and preparing designs and shop drawings giving levels etc. The work shall be started only after approval of the design and shop drawings by Engineer-in-Charge.				
	(b)	Approval of the fascia patterns on panels including name of clients etc. from the Engineer-in-Charge. Nothing extra shall be payable for mock ups and trials of the fascia panels. The approved mock up fascia shall be protected from any damage during execution of the work, this will form part of landscaping works.				
	(c)	Filter media min. 500mm thick with stone crushed aggregates as per approved drawings from the bed level to the top level of the embankment of reinforced earth structure and behind the fascia panels for proper drainage as per approved drawings and particular specifications.				
	(d)	Providing and placing 200 mm dia HDPE perforated Pipe (perforation at top half only) wrapped in non-woven geotextile and filled with filter media, as per drawings for the drainage of seepage water from the fill between RS walls.				
	(e)	All transportation, erection in position alignment and all incidental works as per approved shop drawings to the satisfaction of Engineer-in-Charge.				
	(B)	Measurement:				
		The reinforced Soil wall area shall be measured from top of concrete levelling pad at base to top of RCC fascia wall panel for payment. No separate payment shall be made for any type of reinforcement, filter media, non-woven geotextile wrappers filter, perforated pipe, Geo - Grid, levelling pad/ course for				

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Sl. No.	Item no.	Description of items	Unit	Qty.	Rate (Rs)	Amount (Rs)
		any of the item/ incidental work required to complete the item as per direction of Engineer-in-Charge.				
21	NS-2	Providing, placing and compacting approved backfill material in layers as per approved methodology for reinforced fill portion and random fill portion in the approaches between the Reinforced Soil (RS) Wall panels as per approved drawings and particular specifications. Item to include 500 mm thick sub-grade construction as per specifications with CBR under soaked conditions not less than 6%. All incidental work required to complete the job shall be included in the quoted rates. The item shall be measured and paid for the finished volume of backfill and subgrade placed in position excluding the volume of filter media at behind the RS walls.	cum	13310	2174.25	2,89,39,267.50
	Notes:					
	(A)	With Sand				
		Notes:				
	(a)	The specification and construction details to be adopted shall be as per section 3100 of Mort Specification.				
	(b)	For compaction of Earthwork, attention is invited to clause 3105.5 of MORTH Specification.				
		The earth fill material shall be clean, free draining, granular with high friction and low cohesion, non-corrosive, coarse grained with not 10 per cent of particles passing 75 micron sieve, free of any deleterious matter, chlorides, salts, acids, alkalies, mineral oil, fungus and microbes and shall be of specified PH value.				

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Sl. No.	Item no.	Description of items	Unit	Qty.	Rate (Rs)	Amount (Rs)
22	NS-3	Providing, laying, spreading and compacting graded stone aggregate to <b>wet mix macadam</b> 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 subbase / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	cum	3420	2,572.03	8,796,346.40
23	NS-4	Erection of Prestressed Girder on bearings with crane at site on sub-structure with labour, equipment, T&P and all temporary arrangements, scaffolding etc. complete with contractor's design and scheme for longitudinal launching/side slewing (not requiring traffic block) approved by Engineer in charge.	cum	1070	1,822.00	1,949,540.00
		<b>TOTAL COST OF SCHEDULE 'C2' ITEMS</b>				<b>6,03,32,222</b>

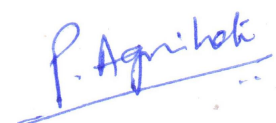
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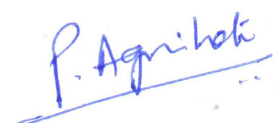
Sl. No.	Item no.	Description of items	Unit	Qty.	Rate (Rs)	Amount (Rs)
<b>SCHEDULE 'D2' –SUPPLY OF STRUCTURAL STEEL</b>						
24	NS-5	Design, Supplying, fitting and fixing in position true to line and level <b>POT-PTFE bearing</b> consisting of a metal piston supported by a disc or unreinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel / fabricated structural steel, metal and elastomer elements complete as per IS:2062, IS:1030, AISI:304, AISI:316, IS:6911, BS:3784, IS:3400, IS:226, BS-5400, Bridge Code and as per drawing and approved Technical Specifications. The design of the bearings shall be submitted by the manufacturers / contractor and got approved from Railway before fixing. Test report of the bearings should be got approved before the materials are lifted from the manufacturer premises. Payment is based on 250 MT capacity of Bearing.				
	(a)	Bearing for 24m span PSC Girder	set	20	1,66,667.50	33,33,350.00
	Note: -					
	(i)	The drawing upto last alteration / revision/amendment shall be followed.				
	(ii)	Cast steel of grade 280 - 520 W or 340 - 570 W of IS 1030 shall be used.				

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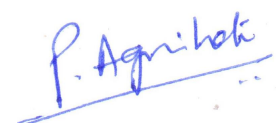
	(iii)	Each set of bearing shall include 10 nos. of bearings (2 POT bearings and 8 POT – Steering’s) and all bolts and all other components connected with bearings as shown in respective drawings.				
	(iv)	The supply of POT / POT-Tearing shall include all materials shown in the drawings. The supply also includes supply of all holding down bolts to fix the bearings at the bottom on pedestal and all bolts to fix the bearings to the bottom of girder.				
	(v)	75% payment shall be made after supply of each set at site on submission of indemnity bond and balance 25% shall be made after fixing of bearings.				
		<b>TOTAL COST OF SCHEDULE 'D2' ITEMS</b>				<b>33,33,350.00</b>

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Sl. No.	Item no.	Description of items	Unit	Qty.	Rate (Rs)	Amount (Rs)
<b>SCHEDULE 'E2' –SUPPLY OF CEMENT</b>						
25	33060	Supplying and using Cement at worksite:				
(a)	33061	Ordinary Portland Cement Grade - 43	tonne	2880	5980.00	1,72,22,400.00
		<b>TOTAL COST OF SCHEDULE 'E2' ITEMS</b>				<b>1,72,22,400.00</b>

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Sl. No.	Item no. of NCR USSOR R - 2010	Description of items	Unit	Qty.	Rate as per NCR USSOR-2010 (Rs)	Amount (Rs)
<b>SCHEDULE 'F2' - SUPPLY OF REINFORCEMENT</b>						
26	45010	Supplying reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete:				
(a)	45016	Thermo-Mechanically Treated Bars	kg	990600	54.35	5,38,39,110.00
	Notes:					
	(l)	The contractor shall quote the rate for Thermo-Mechanically related bars of Grade Fe 500/550D.				
		<b>TOTAL COST OF SCHEDULE 'F2' ITEMS</b>				<b>5,38,39,110</b>

**Explanatory Notes for BOQ:**

- (i) Contractor shall quote rates of shuttering and curing for all heights.
- (ii) The rates of reinforcement item mentioned in the above schedule includes placing of reinforcement under running traffic conditions.
- (iii) All NCR USSOR items contain item nos., if any discrepancy is found in nomenclature, schedule nomenclature will prevail.
- (iv) Tenderer must quote their rates for supply and erection of fabricated girders with their own material including loading, transportation and unloading at site. DFCCIL shall not provide any assistance for procurement of raw material for manufacturing the girders tendered for.
- (v) The rates shall also be inclusive of all taxes legally leviable and / or any other taxes, license fee and royalty charges etc. if any.
- (vi) The above quantity is approximate: -The DFCCIL reserve the right to increase / decrease the same.
- (vii) The contractor has to submit launching scheme and detailed drawing of each component of the Railway safety and nothing extra shall be paid for this activity.

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