

Name of Work : Construction of Road Over Bridge with pile foundation & Bow string girder (1x54m) including other allied works like road diversion, RCC drain, boundary wall etc. in lieu of the existing level crossing No. 219 at KM 480/35-37 in between Tapang & Palasa on HWH-MAS Mainline of KUR Division of East Coast Railway.

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
Schedule	Schedule A-Execution of Bridge substructure & super structure (NON-USSOR Items)					
Item- 1	Execution of all items as detailed in Schedule-A					
1	1	Mass Cement Concrete of M:20 or richer mix with the Contractor's cement & Contractor's well graded hard machine crushed stone aggregate of size 40 mm & below of approved quality & Contractor's sand of approved quality in foundations,floors & other works as directed by the Engineer-in-charge inclusive of all labour ,materials, royalty, all taxes ,lead,lift ,descent ,loading, unloading, bailing & pumping out of water if required by any means ,curing etc. complete as required. (i) The payment of shuttering ,centring/staging of formwork where ever required will be paid separately. (ii) Cement shall be paid separately.	cum	30.00	3,260.40	97,812.00
2	2	Providing RCC M-35 or richer mix design with Contractor's hard quarried well graded stone aggregate of size 20 mm & below & sand , all materials of approved quality in pile cap, grade beam ,abutment ,return approach slab, foot path,box culvert & all similar works etc. above or below ground level of any size & shape cast in situ inclusive of all labour & materials required loyalty ,lead lift,loading unloading, tools & plants, curing etc. complete as required. Contractor to arrange water with any lead including provision of (weep) drainage holes,expansion joints with necessary materials . The rate includes all taxes & all incidental. Notes a) Payment for cement & steel will be made separately. Shuttering will be paid under relevant items of USSOR-2010.	cum	550.00	3,911.15	21,51,132.50
3	3	Execution of Reinforced Cement concrete of M-40 or any higher grade as directed by Engineer-in-Charge in deck slabs, kerbs,hand rails, foot path etc. with contractor's well graded Railway's specifications inclusive graded hard machine machine crushed stone aggregate of size 20mm & below of approved quality & contractor's cement ,steel ,water sand & curing as per ,water ,sand & curing as per Railway's specification inclusive of all labour,materials ,royalty ,lead,lift ,loading ,unloading ,tools & plants ,curing etc. complete as required . Contractor to arrange water with any lead . The rate is inclusive of all ascent , descent ,shuttering ,labour,fuel, taxes etc. complete as required. Note: (i)Supply of steel & anti corrosive treatment for steel shall be paid separately. (ii) The rate is inclusive of cement (Ordinary Portland Cement) and admixture.	cum	380.00	8,451.20	32,11,456.00

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
4	4	Execution of Reinforced Concrete M:25 or any higher grade proportion as directed in wearing course over girder deck slab with Contractor's well graded hard machine crushed stone aggregate of crushed stone aggregate of size 20 mm & below of approved quality & contractor's cement ,steel,sand, water & curing as per Railway specification inclusive of all labour,materials,royalty, lead ,lift,loading ,unloading ,tools & plants,curing etc. Complete as required. Contractor to arrange water with any lead . The rate includes applying 2 (two) coats of bitumen with Contractor's material. Note: (i) The rate is inclusive of all lead,lift,ascent,descent,shuttering,labour,fuel,taxes etc. complete as required. (i)Supply of steel & anti corrosive treatment for steel shall be paid separately. (ii) The rate is inclusive of cement (Ordinary Portland Cement) and admixture.	cum	75.00	5,316.20	3,98,715.00
5	5	Application of two coats of contractor's approved elastomeric membrane forming material base of the acrylic polymers & selected mineral fillers such as EMCE COLOR FLEX or any other equivalent material as directed by the Engineer in Charge to the exposed concrete surfaces for protection of concrete @ 200-300 gm/sqm./coat over a PRIMEX -250* or similar @ 100 gm/sqm. (i) The rate is inclusive of surface preparation which is to be conducted as per painting rules i.e should be free from oils & fats flaky old paint work, dust etc. for better bonding. (ii) Pigments & strainers of approved quality if required for giving decorative shade, then payment will be made separately @ 10% of the cost mentioned above/sqm. (iii) There should be a minimum gap of time i.e 24 hrs to 72 hrs (max) Before second coat is applied.	Sqm	550.00	392.35	2,15,792.50
6	6	Supplying, fabricating & erecting in position hand rail comprising of one horizontal row of MS pipe of 100 mm dia(as per IS-1239) fixed to the vertical supporting MS brackets 10 mm thick & of height 30 cm above crash barrier parapet at 2.0 m intervals(as per approved drawings) including painting the hand rails/MS bracket by one coat of red oxide primer & two coats of synthetic enamel painting of suitable colour with contractor's all materials, tools & plants,labour,consumables all lead & lift etc. complete as directed by the Engineer-in-charge.	MT	6.00	1,01,739.30	6,10,435.80
7	7	Preparation & submission of completion drawings of ROB using AutoCad on 100 micron film double matt finish & materials as approved by the railway to the scales specified in the completion drawings(supplied by railways) in various sizes including submission of compact disc & 3 copies each of the bridge.	Each			
					Total	66,85,343.80
Schedule	Schedule C-Protection of track & other Allied works (NON-USSOR Items)					
Item- 3	Execution of all items as detailed in Schedule-C					
1	1	Protection of track ,signal cable line from damage by running vehicle like truck, tipper by barricading with contractors bamboos & binding wire with all labour, tools & plants ,lead ,lift, taxes complete in all & as directed by Engineer-in-charge excluding the cost of digging holes & white lime on bamboo.	Running Metre	400.00	38.95	15,580.00

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
2	2	Digging of hole manually for fixing barricading post. The rate includes with all labour,tools &plants lead ,lift ,taxes complete in all. The depth of hole should be ensured firm fixing of the post.	Each	135.00	6.65	897.75
3	3	Driving Railway's Rail with the help of monkey hammer or by any means into the ground in all type of soil to the depth specified by Engineer-in-Charge or his representative with contractor's tools,plants with all labours ,lead lift, ascent,decent etc. complete as per the direction of the engineer-in-charge.The rate includes cutting of rails,making V-shape of the driving edge of the rail. The transportation of unserviceable rails from Rly's stores or any other place as per availabilityto site will be paid under relevant items of ECoR USSOR-2010 under Schedule F. Note: 1. Payment will be made for the length of Rails penetrated into the ground. 2. All safety arrangements to be adopted by the Contractor to ensure safety of running line & also safty of men & equipment employed by the Contractor. The Contractor also should ensure during execution of work that there should not be any infringement to running line except as authorised by Officer-in-Charge / representative in writing, because the work is to be executed by the side of running line. The contractor shall also be liable to pay full damages to the railway in case of any mishap on the running line on account of negligence on his part in following these instructions.	Metre	400.00	399.95	1,59,980.00
4	4	Dismantling of structures of the existing bridge/other structures/hard concrete /masonry of any shape & size in any position By Chiselling. Note 1. No blasting will be permitted. 2. Before starting dismantling adequate precautions by providing shoring will be taken. Shoring will be paid separately under relevant schedule. 3. After dismantling the materials released /obtained will be disposed as directed by engineer-in-charge.	cum	33.00	4,680.65	1,54,461.45
5	5	Providing bunds consisting of sand filled bags in layers duly sealed. The rate includes cost of polythene bags,sand filing,cost of sand stiching & placing in position & sealing of voids. Note: 1. Before placing bags ground is to be properly dressed ,levelled etc. 2. The rate is inclusive of dismantling after the work is over. 3. If the same bags are reused , the payable rate shall be 33% of the accepted.	Each Bag	1,000.00	18.05	18,050.00
6	6	Execution of additional works at level crossings for fixing of check rail 52 kg wirh C.I. brackets.	Track metre	55.00	245.10	13,480.50
7	7	Manufacturing, supplying & fixing of various high intensity retro reflective sign boards of size, shapes & color as per standard drawing made out of 2 mm thick aluminium alloy sheet confirming to IS: 736 along with back support of 25 X25 X 3 mm M.S. angle .The entire face of the sign shall be covered with high intensity encapsulated retro reflective sheeting with heat lamp vacuum machine. The speed figure shall be cut out of scotchall film & provided on the base sheet with HLVA process & the supporting post shall be of 65X65X 8mm MS angle or higher T- Section, Channel section as per drawing as approved by the Engineer-in- Charge of the work including transportation, loading, unloading & fixing at site of work with all contractor's materials including all type of local & central taxes leviable as per rule. a) Fabrication, supply, & fixing of LC sign board.	Each	2.00	4,673.05	9,346.10

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
8	8	Manufacturing, supplying & fixing of various high intensity retro reflective sign boards of size, shapes & color as per standard drawing made out of 2 mm thick aluminium alloy sheet confirming to IS: 736 along with back support of 25 X25 X 3 mm M.S. angle .The entire face of the sign shall be covered with high intensity encapsulated retro reflective sheeting with heat lamp vacuum machine. The speed figure shall be cut out of scotch film & provided on the base sheet with HLVA process & the supporting post shall be of 65X65X 8mm MS angle or higher T- Section, Channel section as per drawing as approved by the Engineer-in- Charge of the work including transportation, loading, unloading & fixing at site of work with all contractor's materials including all type of local & central taxes leviable as per rule. a) Caution Indicator Boards.	Each	2.00	3,610.95	7,221.90
9	9	Manufacturing, supplying & fixing of various high intensity retro reflective sign boards of size, shapes & color as per standard drawing made out of 2 mm thick aluminium alloy sheet confirming to IS: 736 along with back support of 25 X25 X 3 mm M.S. angle .The entire face of the sign shall be covered with high intensity encapsulated retro reflective sheeting with heat lamp vacuum machine. The speed figure shall be cut out of scotch film & provided on the base sheet with HLVA process & the supporting post shall be of 65X65X 8mm MS angle or higher T- Section, Channel section as per drawing as approved by the Engineer-in- Charge of the work including transportation, loading, unloading & fixing at site of work with all contractor's materials including all type of local & central taxes leviable as per rule. Termination Indicator Boards (TP and TG).	Each	2.00	5,310.50	10,621.00
10	10	Manufacturing, supplying & fixing of various high intensity retro reflective sign boards of size, shapes & color as per standard drawing made out of 2 mm thick aluminium alloy sheet confirming to IS: 736 along with back support of 25 X25 X 3 mm M.S. angle .The entire face of the sign shall be covered with high intensity encapsulated retro reflective sheeting with heat lamp vacuum machine. The speed figure shall be cut out of scotch film & provided on the base sheet with HLVA process & the supporting post shall be of 65X65X 8mm MS angle or higher T- Section, Channel section as per drawing as approved by the Engineer-in- Charge of the work including transportation, loading, unloading & fixing at site of work with all contractor's materials including all type of local & central taxes leviable as per rule. Speed Indicator Boards.	Each	2.00	2,761.65	5,523.30

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
11	11	Manufacturing, supplying & fixing of various high intensity retro reflective sign boards of size, shapes & color as per standard drawing made out of 2 mm thick aluminium alloy sheet confirming to IS: 736 along with back support of 25 X25 X 3 mm M.S. angle .The entire face of the sign shall be covered with high intensity encapsulated retro reflective sheeting with heat lamp vacuum machine. The speed figure shall be cut out of scotch film & provided on the base sheet with HLVA process & the supporting post shall be of 65X65X 8mm MS angle or higher T- Section, Channel section as per drawing as approved by the Engineer-in- Charge of the work including transportation, loading, unloading & fixing at site of work with all contractor's materials including all type of local & central taxes leviable as per rule. Stop Boards.	Each	2.00	3,631.85	7,263.70
12	12	Manufacturing, supplying & fixing of various high intensity retro reflective sign boards of size, shapes & color as per standard drawing made out of 2 mm thick aluminium alloy sheet confirming to IS: 736 along with back support of 25 X25 X 3 mm M.S. angle .The entire face of the sign shall be covered with high intensity encapsulated retro reflective sheeting with heat lamp vacuum machine. The speed figure shall be cut out of scotch film & provided on the base sheet with HLVA process & the supporting post shall be of 65X65X 8mm MS angle or higher T- Section, Channel section as per drawing as approved by the Engineer-in- Charge of the work including transportation, loading, unloading & fixing at site of work with all contractor's materials including all type of local & central taxes leviable as per rule. Speed braker Boards.	Each	2.00	3,059.00	6,118.00
13	13	Manufacturing, supplying & fixing of various high intensity retro reflective sign boards of size, shapes & color as per standard drawing made out of 2 mm thick aluminium alloy sheet confirming to IS: 736 along with back support of 25 X25 X 3 mm M.S. angle .The entire face of the sign shall be covered with high intensity encapsulated retro reflective sheeting with heat lamp vacuum machine. The speed figure shall be cut out of scotch film & provided on the base sheet with HLVA process & the supporting post shall be of 65X65X 8mm MS angle or higher T- Section, Channel section as per drawing as approved by the Engineer-in- Charge of the work including transportation, loading, unloading & fixing at site of work with all contractor's materials including all type of local & central taxes leviable as per rule. Stop disk & safety chains	Each	2.00	1,826.85	3,653.70

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
14	14	Manufacturing & supply of cement concrete blocks of M-30 or richer concrete for road surface for the level crossing as per CE's Drg. No. 23845 & 23844. The design mix should be got done by the contractor at his own cost. The concrete shall be made of Contractor's cement, contractor's hard quarried machine crushed stone (Granite, basalt, black trap) aggregate of size 20 mm & below & approved well graded sand duly analyzed & tested, water duly analyzed & tested, admixtures, if required & finishing to correct slopes & chamfers. The rate includes supply of finished blocks at site, providing & assembling rigid steel moulds of exact dimensions & shape with necessary platform/casting bed, cleaning & application of de-moulding agents, compaction of concrete curing all labour inclusive of all lead, lift, descent, ascent, royalty, freight, loading & unloading charges etc. complete as per specifications, drawings & direction of the Engineer-in-charge of his representative at site. Each block will be of 0.5 Mtr. length. Pre-cast PCC block for L- Xing with heavy vehicle. Block - A	Numbers	500.00	64.60	32,300.00
15	15	Manufacturing & supply of cement concrete blocks of M-30 or richer concrete for road surface for the level crossing as per CE's Drg. No. 23845 & 23844. The design mix should be got done by the contractor at his own cost. The concrete shall be made of Contractor's cement, contractor's hard quarried machine crushed stone (Granite, basalt, black trap) aggregate of size 20 mm & below & approved well graded sand duly analyzed & tested, water duly analyzed & tested, admixtures, if required & finishing to correct slopes & chamfers. The rate includes supply of finished blocks at site, providing & assembling rigid steel moulds of exact dimensions & shape with necessary platform/casting bed, cleaning & application of de-moulding agents, compaction of concrete curing all labour inclusive of all lead, lift, descent, ascent, royalty, freight, loading & unloading charges etc. complete as per specifications, drawings & direction of the Engineer-in-charge of his representative at site. Each block will be of 0.5 Mtr. length. Pre-cast PCC block for L- Xing with heavy vehicle. Block - B	Numbers	209.00	41.80	8,736.20
16	16	Manufacturing & supply of cement concrete blocks of M-30 or richer concrete for road surface for the level crossing as per CE's Drg. No. 23845 & 23844. The design mix should be got done by the contractor at his own cost. The concrete shall be made of Contractor's cement, contractor's hard quarried machine crushed stone (Granite, basalt, black trap) aggregate of size 20 mm & below & approved well graded sand duly analyzed & tested, water duly analyzed & tested, admixtures, if required & finishing to correct slopes & chamfers. The rate includes supply of finished blocks at site, providing & assembling rigid steel moulds of exact dimensions & shape with necessary platform/casting bed, cleaning & application of de-moulding agents, compaction of concrete curing all labour inclusive of all lead, lift, descent, ascent, royalty, freight, loading & unloading charges etc. complete as per specifications, drawings & direction of the Engineer-in-charge of his representative at site. Each block will be of 0.5 Mtr. length. Pre-cast PCC block for L- Xing with heavy vehicle. Block - C	Numbers	121.00	42.75	5,172.75

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
17	17	Manufacturing & supply of cement concrete blocks of M-30 or richer concrete for road surface for the level crossing as per CE's Drg. No. 23845 & 23844. The design mix should be got done by the contractor at his own cost. The concrete shall be made of Contractor's cement, contractor's hard quarried machine crushed stone (Granite, basalt, black trap) aggregate of size 20 mm & below & approved well graded sand duly analyzed & tested, water duly analyzed & tested, admixtures, if required & finishing to correct slopes & chamfers. The rate includes supply of finished blocks at site, providing & assembling rigid steel moulds of exact dimensions & shape with necessary platform/casting bed, cleaning & application of de-moulding agents, compaction of concrete curing all labour inclusive of all lead, lift, descent, ascent, royalty, freight, loading & unloading charges etc. complete as per specifications, drawings & direction of the Engineer-in-charge of his representative at site. Each block will be of 0.5 Mtr. length. Pre-cast PCC block for L- Xing with heavy vehicle. Block - D	Numbers	55.00	54.15	2,978.25
18	18	Manufacturing & supply of cement concrete blocks of M-30 or richer concrete for road surface for the level crossing as per CE's Drg. No. 23845 & 23844. The design mix should be got done by the contractor at his own cost. The concrete shall be made of Contractor's cement, contractor's hard quarried machine crushed stone (Granite, basalt, black trap) aggregate of size 20 mm & below & approved well graded sand duly analyzed & tested, water duly analyzed & tested, admixtures, if required & finishing to correct slopes & chamfers. The rate includes supply of finished blocks at site, providing & assembling rigid steel moulds of exact dimensions & shape with necessary platform/casting bed, cleaning & application of de-moulding agents, compaction of concrete curing all labour inclusive of all lead, lift, descent, ascent, royalty, freight, loading & unloading charges etc. complete as per specifications, drawings & direction of the Engineer-in-charge of his representative at site. Each block will be of 0.5 Mtr. length. Pre-cast PCC block for L- Xing with heavy vehicle. Block - E	Numbers	55.00	40.85	2,246.75
19	19	Manufacturing & supply of cement blocks of M30 or richer concrete for road surface Precast PCC blocks for L-Xing with heavy vechiles. Edge resistant	Numbers	242.00	81.70	19,771.40
20	20	Laying of Pre cast Hexagonal Block in L-Xing over cushion of 20mm.. A) Heavy Vechile level crossing	Sqm	220.00	409.45	90,079.00
21	21	Supplying , testing ,fitting ,fixing & welding with stud guns etc. of normal headed shear studs/shear connectors of 25 mm dia & 200 mm length confirming to IS :3935-66 as per specification of RDSO Drg NO- B- 11758/R to B111758/9R, along with ferrules to top flange of girders for deck slab as per the direction/approval of engineer.	Each			
22	22	Supplying & fixing single strip seal expansion joint for expansion & contraction up to 40mm i.e working movement at least up to 80mm with a maximum of 100 mm at right angles to the joint & +/- 40mm parallel to joint consisting of edge beams,strip seal, rigid anchor,anchor loop,water proofing membrane etc. of approved quality including cost of materails eg labour equipments, machineries & other incidental charges for fixing the joint transportation lead & lift loading unloading etc complete as per IRC specification.	Metre	30.00	18,463.25	5,53,897.50

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
23	23	Painting of crash barrier/kerb stones of CC/RCC slabs,stone with approved quality reflective type of enamel paint, including one coat of primer with contractor's own labour & material etc, complete as directed by the Engineer-in-charge.	Sqm	285.00	128.25	36,551.25
					Total	11,63,930.50
Schedule	Schedule D-Supply of Cement (USSOR 2010 Items)					
Item- 4	Execution of all items as detailed in Schedule-D					
		Supply & using cement at worksite :				
1	033062	OPC 53 grade	Tonne	260.00	5,790.25	15,05,465.00
2	033063	PPC	Tonne	450.00	5,353.25	24,08,962.50
3	033130	Supplying & mixing high range poly carboxylate ether base water reducing admixture Plast Super-C700 conforming to IS:9103-1999 (to be added @ 1% by weight of cement) for CC & RCC work for controlling water cement ratio & for gaining early strength	Kg	7,100.00	94.60	6,71,667.10
					Total	45,86,094.60
Schedule	Schedule E-Supply of reinforcement steel (USSOR-2010 Items)					
Item- 5	Execution of all items as detailed in Schedule-E					
		Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position & binding all complete.				
1	045016	Thermo-Mechanically Treated bars	Kg	2,75,000.00	6.65	18,28,750.00
					Total	18,28,750.00
Schedule	Schedule F-Execution of USSOR- 2010 items					
Item- 6	Execution of all items as detailed in Schedule-F					
		Earth work in excavation as per approved drawings & dumping at embankment site or spoil heap, within railway land, including 50m lead & 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level & paid for in layers of 1.5m each, including incidental work, as per specifications-in				
1	011011	All kinds of soils	cum	350.00	87.72	30,703.05
2	011012	Ordinary Rock (Not requiring blasting)	cum	25.00	255.08	6,376.88
3	011014	Hard Rock (blasting prohibited)	cum	25.00	646.16	16,154.04
4	012050	Supplying & filling sand in plinth & under floors including watering, ramming, consolidating & dressing complete	cum	40.00	603.86	24,154.32

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
		Earthwork in cutting (Classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension & slopes to obtain a neat appearance to standard profile inclusive of all labour, machine & materials & removing & leading all cut spoils either to make spoil dumps beyond 10m. from cutting edge or for filling in embankment with all leads within the section limit, lifts, ascent, descent, loading, unloading, all taxes/royalty, clearance of site & all incidental charges, bailing & pumping out water if required, etc., complete as per directions of the Engineer-in-Charge. The work is to be executed as per Latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of Railways & to be deposited in the railway godown unless specified otherwise in the Special conditions of contract				
5	013111	In all conditions & classifications of soil except rock	cum	600.00	151.08	90,647.10
6	013120	Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines & specifications & special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation & setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling. taxes, octroi & royalty etc. as a complete job. Cut trees shall be property of railways & to be deposited in the railway godown unless specified otherwise in the Special conditions of contract	cum	900.00	226.07	2,03,464.35
7	013130	Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's rollers of suitable capacity, type & size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&P consumable material & all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow	cum	1,200.00	15.30	18,354.00
8	013150	Laying & spreading blanketing materials (Natural or Mechanically prepared as per GE-1 or G.E.IRS-2) over new / old embankment / cutting in layers of 30 cm in loose state to make the embankment of designed profile as per specifications. The rate is inclusive of initial site clearance, cutting of shrubs, removal of roots of vegetation growth & heavy grass, surfacing & leveling to give required slope, benching if required on existing bank slope, dressing & finishing of bank, all lead & lift, ascent, descent, crossing of nallahs/ other obstructions, spreading the material & final dressing of slopes & top surface as per specified camber using contractor's own machinery, equipment, T&P labour etc., as a complete job. Note - The rate does not include supply / compaction of blanketing material at site which shall be paid separately.	cum	300.00	60.13	18,037.65
		Providing & laying in position cement concrete of specified proportion excluding cost of cement, centering & shuttering - All works upto Plinth level :				

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
9	031011	1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size)	cum	40.00	2,005.43	80,217.24
		Providing & laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement & Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength & durability as per direction of Engineer in charge				
10	041011	All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, & Platform shelter etc.	cum	180.00	2,368.10	4,26,258.54
		Centering & shuttering including strutting, propping etc. & removal of form for :				
11	042012	Walls (any thickness) including attached plasters, buttresses, plinth & string courses etc.	Sqm	900.00	221.54	1,99,386.00
		15 mm cement plaster on the rough side of single or half brick wall of mix -				
12	111021	1:4 (1cement: 4 fine sand)	Sqm	2,400.00	71.01	1,70,430.00
		Demolishing stone rubble masonry including stacking of serviceable material & disposal of unserviceable material within 50m lead				
13	182033	In cement mortar	cum	20.00	449.70	8,994.03
14	186020	Dismantling steel work & trusses upto 10m span & 5m height in built up sections in angles, tees, flats & channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering & stacking within 50m lead	Kg	1,000.00	1.16	1,159.00
15	186040	Extra over item 186020 & 186030 for dismantling trusses, rafters, purlins etc. of steel work for additional span length of one metre or part thereof beyond 10m	Kg	1,000.00	0.17	171.00
		Earth work in excavation for foundations & floors of the bridges, retaining walls etc., including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material & consolidation of the layers by ramming & watering etc. incl. all lift, disposal of surplus soil upto a lead of 300 M, all types of shoring & strutting with all labour & material complete as per drawing & technical specification as directed by Engineer in charge				
16	192011	All kinds of soils	cum	300.00	173.99	52,197.75
17	192012	Ordinary rock	cum	50.00	204.60	10,230.08
18	192014	Hard rock (blasting prohibited)	cum	50.00	364.39	18,219.58

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
		Providing, Driving & installing Bored cast in situ Reinforced Cement Concrete piles of specified diameter & length below pile cap in M- 35 grade Design Mix Cement Concrete , using 20 mm graded crushed stone aggregate & coarse sand of approved quality, to carry a safe working load not less than specified, excluding the cost of casing pipe but including the cost of shoe & length of pile to be embedded in pile cap etc complete, concreting by machine batching, machine mixing, scaffolding, using Admixture in recommended proportion(as per IS 9103), if approved in design Mix, placing with tremie pipe, chipping off of pile top to remove laitance concrete above cut off level etc, pumping & bailing out water, with all labour material complete including crossing of tracks if required, as per approved drawing, specification & direction of the Engineer in charge. Length of the pile for payment shall be measured Up to the bottom of pile cap excluding the mud mat. Payment for cement, casing pipe & reinforcement shall be paid extra				
19	192072	1200mm diameter	Metre	500.00	9,901.46	49,50,730.25
20	192080	Providing, fabricating & installing of casing pipe for bored piles for all diameters with specified thickness of steel plate including all labour, materials, pumping & bailing out water where ever	MT	25.00	55,187.48	13,79,686.90
		Extra for chieselling in addition to boring of piles if chieselling is resorted to in hard rock or big stone boulders larger than 30 cm depth by any means i.e. by chiesel or manual chiesel &				
21	192091	1200mm Diameter pile	Metre	54.00	1,373.66	74,177.75
		Conducting load testing of a single pile Up to following capacity in accordance with IS 2911(Part IV) including installation of loading platform & preparation of pile head or construction of test cap & dismantling of test cap after test etc with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing & specification, as directed by the Engineer				
22	192103	Initial load test above 100 ton capacity Up to 250 ton capacity pile	Each	2.00	1,91,995.95	3,83,991.90
23	192104	Extra for every increase of 50 T in pile capacity or part thereof over 250 T	Each	8.00	12,661.80	1,01,294.40
		Centring & shuttering including strutting, propping etc. & removal of form for :				
24	195031	RCC raft foundation & Pile cap	Sqm	150.00	132.91	19,935.75
25	195032	Abutment, pier, wing walls & return walls	Sqm	130.00	221.54	28,800.20
26	195033	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall, etc.	Sqm	220.00	214.59	47,208.92
		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 & analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive & will be paid after load test is finished & girder is cleared of the kentledges /loading material etc. The load shall be 1.25 times the stipulated design load Based on Design load & not span				
27	201061	For Span design load upto 100 MT	Each	1.00	66,848.00	66,848.00
28	201062	Extra for every increase of 100 MT or part thereof in the span load capacity upto 800 MT	Each 100 MT	1.00	65,684.72	656.85

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
29	211090	Providing, cutting, fabricating, treating, fixing & painting structural steel conforming to IS:2062 in access ladders, inspection platforms, Trolley refugee, railing, etc. joints welded	MT			
		Supplying, fitting & fixing in position true to line & level POT-PTFE bearing consisting of a metal piston supported by a disc or un reinforced 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 & 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 & as per drawing & approved Technical Specifications. The design of the bearings shall be submitted by the manufacturers/contractor & 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				
30	211141	POT-PTFE Bearing	MT Bearing Capacity			
31	211142	POT Bearing	MT Bearing Capacity			
32	222170	Providing & fixing of Drainage Spouts of 100 mm UPVC complete as per drawing & Technical specification	Metre	120.00	266.10	31,932.54
		Providing & laying water bound macadam with specified stone aggregate, stone screening & binding material including screening, sorting, spreading to template & consolidation with power road roller of 8 to 10 tonne capacity etc. complete.				
33	231043	Base course with 53mm to 22.4mm size including stone screening 11.2mm size	cum	450.00	1,237.88	5,57,045.33
34	252020	Moorum	cum	300.00	294.98	88,492.50
35	252140	Local sand / pit sand/yamuna sand for filing purposes	cum	100.00	417.34	41,733.50
					Total	91,47,689.37
Schedule	Schedule G-Execution of Miscellaneous items like melalizing, road work, etc (NON-USSOR Items)					
Item- 7	Execution of all items as detailed in Schedule-G					
1	1	Metalizing of the portion of the girder components such as cross girder, rail bearer, bracing etc. of new girder as direction by Railway with sprayed aluminum & painting the metalized surface in four coat with approved paint conforming to IS specification & special condition including surface preparation with all lead, lift, labour & material, plants & equipments etc. complete.	Sqm			
2	2	Providing, laying, spreading & compacting graded stone aggregate to wet mix macadam specifications (150 mm thick) including premixing the material with water to OMC in mechanical mix (pug mill) carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared under base compacting with power vibrating roller to achieve the desired density including lighting, guarding, barricading & maintenance of diversion etc. complete.	Sqm	3,000.00	490.20	14,70,600.00

S No.	Item No	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
3	3	Cleaning the existing WMM road surface including removing of binding material & other foreign matter with wire brushes & small picks, sweeping with brooms or soft brushes & finally dusting with old gunny bags and/or compressed air to receive bituminous treatment.	Sqm	3,000.00	5.04	15,105.00
4	4	Providing & applying primer coat over prepared surface of granular base with bitumen heated in bitumen boiler fitted with spray set excluding cleaning of road surface. Primer from 7.5 - 9.8 kg for surface of low & medium porosity.	Sqm	3,000.00	32.30	96,900.00
5	5	Providing & laying 50 mm thick bituminous macadam on prepared surface with specified graded crushed aggregate for base/binding course including loading of aggregates with F.E. loader & hot mixing of stone aggregate & bitumen in hot mix plant, transporting the mixed material in tipper to paver finisher to the required level & grate, rolling by power roller to achieve the desired density but excluding cost of primer /tack coat complete.	Sqm	3,000.00	256.50	7,69,500.00
6	6	Providing, laying & consolidation semi dense bituminous concrete 25 mm thick on prepared surface with specified graded crushed aggregate for wearing course including loading aggregate & binder in hot mix plant, transporting the mixed materials with tipper & laying with paver finisher to the required level, rolling with power roller to achieve the desired density but excluding primer/tack coat with lead of mix material 1 Km. complete.	Sqm	3,000.00	175.75	5,27,250.00
7	7	Brickwork with modular fly ash lime bricks (FALG Bricks) conforming to IS:12894-1989, class designation 10 in superstructure above plinth level upto floor two level in : Cement mortar (1:6)	cum	165.00	2,084.30	3,43,909.50
8	8	Execution of miscellaneous works like watchman duties for SSE/JE(Con)/Works/Pway/Bridge during day/night assisting the supervisor at site during survey, inspections & measurement of works etc., with contractors skilled men as directed by Engineer-in-charge. (The unit may be treated as per Man per day instead of Man-days).	Man-Days	270.00	565.25	1,52,617.50
9	9	Execution of miscellaneous works like assisting the supervisors for SSE/JE(Con)/Works/Pway/Bridge at site during survey, inspections & measurement of works etc., with contractors highly skilled men as directed by Engineer-in-charge. (The unit may be treated as per Man per day instead of Man-days).	Man-Days	270.00	661.20	1,78,524.00
					Total	35,54,406.00
Schedule	Schedule H-Execution of unforeseen items as per USSOR-2010					
Item- 8						
		Execution of works covered under East Coast Railway Unified Standard Schedule Of Rates 2010 (Works & Materials) of Engineering Department including any other items not covered in the above schedules of this tender (excluding banned items)	LS			19,00,000.00
					Total	19,00,000.00

Total of all the Schedules -

2,88,66,214.27