



Dedicated Freight Corridor Corporation of India Ltd. (DFCCIL)
Government of India, Ministry of Railways

Tender No. MGS/EN/DDU/RUB-FOB/296/2020
for

Name of Work: Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor

E-TENDER DOCUMENT
FINANCIAL BID (PACKET-B)

May-20

Employer:
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Under
MINISTRY OF RAILWAYS

CGM OFFICE
General Manager/Coordination, DDU
DFCCIL
Manas Nagar Railway Colony,
Pt Deen Dayal Upadhyay Nagar (Mughalsarai)
Chandauli -232101, Uttar Pradesh, India

CORPORATE OFFICE
DFCCIL, 5TH Floor, Pragati Maidan Metro Station Building,
New Delhi-110001

GENERAL INFORMATION / DATA SHEET

TENDER NOTICE NO	MGS/EN/DDU/RUB-FOB/296/2020
Name of the work	Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor
(a) Tender Value (in Rs.)	₹ 355,880,179.00
(b) Completion Period	18 months
(c) Earnest Money	₹ 5,000,000
(d) Date and Time of Issue of Tender	From 11 Hrs of 13.05.2020
(e) Last date and Time of submission of Tender	15.06.2020 upto 15:00 hrs
(f) Date and Time of Opening of Tender (Technical bids -Packet A)	On 15.06.2020 at 15:30 hrs Opening date of Financial Bid will be Notified later
(g) Validity of offer	120 days from the date of opening of Technical Bid
(h) Retention Money / Security Deposit	5 % of Contract Value
(i) Performance Bank Guarantee	Performance Guarantee (PG) have to be submitted within 30(thirty) days from the date of issue of Letter Of Acceptance (LOA), amounting to 5% of the contract value in the form as give in clause 16.4 of GCC

SUMMARY OF PRICES

Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

S. No.	Description of works	Cost as per USSOR 2012 of EC Rly / Basic Cost	DFCCIL updated %	DFCCIL updated cost in Rs
1	2	3	4	5
1	Execution of all works as per Schedule "A-I" (NS Item)	1,528,479.78	0	1,528,479.78
2	Execution of all works as per Schedule "A-II" (NS Item)	1,243,400.00	0	1,243,400.00
3	Execution of all works as per Schedule "A-III" (NS Item)	29,956,907.00	0	29,956,907.00
4	Execution of all works as per Schedule "B-I " (Items as per SOR 2012 of EC Rly)	5,588,560.33	11.67	6,240,745.32
5	Execution of all works as per Schedule "B-II " (Items as per SOR 2012 of EC Rly only)	14,307,935.73	11.67	15,977,671.83
6	Execution of all works as per Schedule "B-III " (Items as per SOR 2012 of EC Rly)	11,099.76	11.67	12,395.10
7	Execution of all works as per Schedule "B-IV " (Items as per SOR 2012 of EC Rly)	763,794.36	11.67	852,929.16
8	Execution of all works as per Schedule "B-V " (Items as per SOR 2012 of EC Rly)	362,130.18	11.67	404,390.77
9	Execution of all works as per Schedule "B-VI " (Items as per SOR 2012 of EC Rly)	70,849,448.20	11.67	79,117,578.81
10	Execution of all works as per Schedule "B-VIII " (Items as per SOR 2012 of EC Rly)	2,341,741.78	11.67	2,615,023.04
11	Execution of all works as per Schedule "B-IX " (Items as per SOR 2012 of EC Rly)	17,336.82	11.67	19,360.03
12	Execution of all works as per Schedule "B-X " (Items as per SOR 2012 of EC Rly)	88,719,685.34	11.67	99,073,272.62

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13	Execution of all works as per Schedule "B-XII " (Items as per SOR 2012 of EC Rly not covered by the items of Schedule -A ,Schedule-B-I,B- II,B-III, B-IV, B-V, B-VI ,B-VIII ,B-IX, B-X, C-I & C-II only)	5,000,000.00	11.67	5,583,500.00
14	Execution of all works as per Schedule "C-I " (Cement- OPC 43 Grade)	34,365,696.93	11.67	38,376,173.76
15	Execution of all works as per Schedule "C-II " (Reinforcement Steel FE 500D)	67,053,238.69	11.67	74,878,351.65
Total		322,109,454.89		355,880,178.86
NOTES:				
(i)	The Tenderer shall quote single percentage for each Schedule. If the tenderer quotes different percentage (%) above / below againsts each items of any schedule (i.e. A-I, A-II, A-III, B-I, B-II, B-III, B-IV, B-V,B-VI,B-VIII,B-IX, B-X, B-XII, C-I & C-II), else his offer will be summarily rejected.			
(ii)	The above prices are inclusive of all taxes (GST, Works Contract Tax etc.), Octroi or Local levies			
(iii)	If the uniform percentage quoted by the Tenderer does not clearly indicate whether the rates are above/at par/below the estimated rates then through sign convention it will be considered to be on plus side and evaluated accordingly.			
(iv)	This Tender Schedule does not contain Schedules B-VII and B-XI because of these Schedules are not present.			
(v)	Rate of item payable to Contractor shall be as per following example:-			
	1) For Schedule B-I (Updation factor is 1.1167, since 11.67% above is the rate of DFCCIL over USSOR 2012 of EC Railway).			
	a) If percentage quoted by the contractor is 5% above (+5%). Rate payable to contractor = (X) x 1.1167 x 1.05			
	b) If percentage quoted by the contractor is 5% below (-5%). Rate payable to contractor = (X) x 1.1167 x 0.95			
	c) If percentage quoted by the contractor is at par, Rate payable to contractor = (X) x 1.1167			
	2) Similarly updation factor for Schedule B-II, B-III,B-IV, B-V, B-VI, B-VIII, B-IX, B-X,B-XII, C-I and C-II is 1.1167, 1.1167, 1.1167, 1.1167,1.1167,1.1167,1.1167, 1.1167, 1.1167, 1.1167 and 1.1167 respectively.			
	3) In case of NS items i.e. Schedule A-I, A-II, A-III, Updation factor shall be 1.			

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Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

Schedule A-I

Items No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Launching of railway's relieving girder of overall length up to 12 to 22 metre after removing track, ballast, excavation earth on properly prepared wooden / cc cribs supports as per the approved scheme of launching, Railway drawing and specifications, by contractor's road crane including all tools, plants, machineries, labour, equipments etc. The work includes fixing of track i.e. Steel channel sleepers, rails & fittings as per railway specifications and standards on the relieving girder and necessary adjustments in the longitudinal and cross levels including lifting & packing at approaches of girders after insertion of the relieving girder in track to maintain safety of trains on the relieving girder and its approaches.		16.4	MT	5,462.03	89,577.29
2	De-launching of Railway's 12 to 22 m long reliving girder from bridges and stacking at suitable location as per direction of Engineer in charge with contractor's labour, trailer, cranes, derricks, tools and plants, equipments, consumables etc. complete as per specifications, special conditions and detailed scope of work furnished in the tender and as directed by the Engineer in charge. Note: - The rate shall be inclusive of dismantling of track fixed on girder.		16.4	MT	2,721.83	44,638.01
3	Removal of BG track assembly of required length during traffic block in straight/ curve laid on LWR/SWR/single rail with 60Kg/52Kg rails on PSC sleepers with spacing up to 1660 sleeper per KM density with the help of contractor's road crane including cutting of rails with abrasive disc cutter & drilling of holes along with chamfering wherever required, leading and stacking them near site without damaging the BG track assembly with contractor labour, tools, plants, equipments etc. including handling, re-handling, crossing of track, Nallahs and any other obstructions without disturbing centre line and level pegs as per direction of site engineer in charge.		20	MT	5,108.40	102,168.00
4	Insertion of already assembled BG track in existing track alignment during traffic block or otherwise with the help of contractor's road crane over bank or as directed by Engineer in charge at site in straight/curve, including cutting of rails with abrasive disc cutter & drilling of holes along with chamfering wherever required, squaring of sleepers, ensuring correct sleeper spacing, gauge, alignment, longitudinal and cross levels including removing of kinks of rails including one katcha packing to bring the track to good geometry as per IRPWM fit for 20 kmph including tightening/recouping of all sleepers, fittings and fastening etc. as a complete job with contractor's labour, tools, plants, equipments etc. including handling, re-handling, crossing of track, Nallahs and any other obstructions as per site conditions & direction of site engineer in charge. The rate shall include preparation of formation for laying of track including levelling & grading and nothing extra will be paid on this account.		20	MT	5,108.40	102,168.00

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5	Maintenance of track over relieving girder & its approaches ensuring the safety of track by maintaining correct gauge, alignment, longitudinal and cross levels as per IRPWM fit for 30 kmph including tightening/recouping of all fittings and fastening over relieving girder & its approaches etc. with contractor's labour, tools, plants, equipments etc. as per direction of site engineer in charge as a complete job. The rate shall also include the protection of bank in case of settlement of sleeper/CC crib. Contractor has to provide the gang of minimum 15 labours along with supervisor experienced in track work per day including one watchman from 5.00pm to 8.00 am. The payment under this item shall be made after launching of relieving girder till the removal of same. Note: - A penalty of Rs 500/- per labour per day shall be imposed in case of non availability of any labour/ supervisor. Decision of Engineer in charge in this regard shall be final & binding to contractor.		40	Day	7,130.13	285,205.20
6	Supplying of Wooden Blocks Size 2750 x 250 x 200mm made of Sal wood suitable for temporary arrangement of Relieving girder as per direction of site engineer in charge. These blocks shall become property of railway after completion of work.		7.35	cum	89,693.82	659,249.58
7	Manufacturing, supplying and stacking 50mm gauge machine crushed stone ballast as directed at indicated place conforming to Rly specification for track ballast IRSGE-1, June 04 (with upto date correction slips) including all lead, lift, all royalties, duties, taxes, making stacking area, cost of all labour, transportation, loading, unloading etc.		100	cum	2,062.56	206,256.00
8	Through packing of Sleeper on running line to specified tolerance including lifting in stages up to 75mm at a time to relax the speed as per IRPWM. 1st Round.		150	Per Track Meter	32.17	4,825.50
9	Through packing of Sleeper on running line to specified tolerance including lifting in stages up to 75mm at a time to relax the speed as per IRPWM. 2nd Round.		150	Per Track Meter	29.64	4,446.00
10	Through packing of Sleeper on running line to specified tolerance including lifting in stages up to 75mm at a time to relax the speed as per IRPWM. 3rd Round.		150	Per Track Meter	27.16	4,074.00
11	Spreading of ballast from the stacks available in formation (already unloaded) uniformly on the track/formations as per true profile including all lift, lead upto 100 metres and crossing of tracks per direction of Engineer-incharge.		150	cum	80.18	12,027.00
12	Destressing of LWR/CWR track in running/ non running line with/Without block (both rails of any section) laid on any type of sleeper with sleeper density upto 1660 sleepers per KM, manually within specified range of temperature (No payment admissible if recommended temperature range is not achieved on a particular day) or using rails tensor systematically as per procedure laid down in IRPWM/LWR manual including labour, all equipments (thermometer, rollers etc), cutting. rails, drilling holes, putting clamps at joints wherever needed.		600	Per Track Meter	15.50	9,300.00
13	Cutting, drilling 26.5mm to 32mm holes in 52/60 kg rail as per specification and procedure laid in IRPWM with contractor's labour, tools & plants. Cutting in running line/Non-running line.		40	Each	67.53	2,701.20
14	Cutting, drilling 26.5mm to 32mm holes in 52/60 kg rail as per specification and procedure laid in IRPWM with contractor's labour, tools & plants. Drilling in running line/Non-running line.		40	Each	46.10	1,844.00
Schedule A-I Total						1,528,479.78

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Schedule A-II						
Item s No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Preparation and submission of structural design & detailed drawings of RCC Box to be Constructed under the running track by box pushing technique as per latest code and manual updated time to time and Proof checked by any I.I.T. ,I.T. BHU/RITES or any N.I.T. at contractor own cost. Design and drawing has to be got approved by contractor from DFCCIL and Railway including modification in design, drawing as decided by DFCCIL.		1	Each	338,163.00	338,163.00
2	Preparation and submission of structural design & detailed drawings for each Thrust bed for Box pushing as per latest code and manual updated time to time and Proof checked by any I.I.T. ,I.T. BHU/RITES or any N.I.T. at contractor own cost.Design and drawing has to be got approved by contractor from DFCCIL and Railway including modification in design, drawing as decided by DFCCIL.		1	Each	780,377.00	780,377.00
3	Preparation and submission of structural design & detailed drawings for retaining wall as per latest code and manual updated time to time and Proof checked by any I.I.T. ,I.T. BHU/RITES or any N.I.T. at contractor own cost. DDesign and drawing has to be got approved by contractor from DFCCIL and Railway including modification in design, drawing as decided by DFCCIL.		1	Each	124,860.00	124,860.00
Schedule A-II Total						1,243,400.00

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Schedule A-III

Items No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Jacking & Pushing RCC box of any size under railway track under running conditions by box pushing technique including excavation, leading the spoil to low lying area, providing cutting edge(front and rear shield) provisions of intermediate jacking pockets, applying epoxy on top of box, providing drag sheet, pushing arrangement with contractor's machinery, tools, plants power and jacks of required capacity, After pushing sealing of box junction with conc of similar grade and cement grouting of joints to make joint water tight with contractors cement and materials. Rate includes all temporary arrangement required to carryout the work in all respect as per railway approved drawings, methodology and specification. Note - (i) Rates is inclusive of providing and removing cutting edge (front & rear shield), drag sheet and jacking pockets No extra payment shall be made for this. After completion of work material released from cutting edge, drag sheet, jacking pockets shall be the property of contractor. (ii) Payment will be made by the quantity of earth removed during pushing operation within the external periphery of the box.		1450	cum	20,580.22	29,841,319.00
2	Granuler Sub-base with course graded Material construction of GSB by providing course graded material spreading and compacting with vibratory roller		142	cum	814.00	115,588.00
Schedule A-III Total						29,956,907.00

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**Schedule B-I
Earthwork**

Items No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Supplying and filling sand in plinth and under floors including watering, ramming, consolidating and dressing complete Earthwork in cutting (Classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine and materials and 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 and 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.	012050	581	cum	602.73	350,186.13
2	Earthwork in cutting (classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine & materials and 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 and 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 and to be deposited in the railway godown unless specified otherwise in the Special Conditions of Contract Note - (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor					
(a)	In all conditions and classifications of soil except rock.	013111	14130	cum	163.81	2,314,635.30
3	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 and specifications and 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 and 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 and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract. Types of good quality soil, as acceptable to Engineer-in-charge.	013120	16000	cum	139.23	2,227,680.00

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4	Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&P consumable material and 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	013130	1093	cum	14.80	16,176.40
5	Removal of excavated / slip earth / debris / malba from the site of works to any other place outside Railway land/premises, including all excavations, handling, rehandling, loading, unloading & leading etc. all labour and material as a complete job. Removal of Earth (all kinds of soils)/Rocks, Boulders including mud/slush, slipped earth in catch water drains, side drains, over berms in cutting, water way of bridges, over coping of toe/breast /retaining walls etc. including crossing of nallah, railway tracks, making/repairing approach roads, if required, all lead, lift, ascent, descents, or any other obstruction. Earth spoils to be dumped outside the cutting or railway embankments as per direction of Engineer in charge.	013140	4950	cum	137.35	679,882.50
Schedule B-I Total						5,588,560.33

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Schedule B-II						
Plain Concrete, RCC, Flooring, Paving, Finishing Masonry, Dismantling and Demobling						
Item s No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level : 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size)	031011	5	cum	2,813.60	14,068.00
2	Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering. 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size)	031023	10	cum	2,911.03	29,110.30
3	Providing and laying in position cement concrete of M 20 grade, excluding the cost of cement and of centering and shuttering, as per direction of the Engineer in charge : All works upto Plinth level	031051	435.59	cum	2,856.68	1,244,341.24
4	Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge. All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc.	041011	826.65	cum	3,341.60	2,762,333.64
5	All work in buildings above plinth level upto floor two level.	041012	505	cum	3,619.33	1,827,761.65
6	In kerbs, steps and the likes etc.	041015	5	cum	3,202.50	16,012.50
7	Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	042011	2150	Sqm	138.30	297,386.49
8	Walls (any thickness) including attached plasters, buttresses, plinth and string courses etc.	042012	332	Sqm	227.40	75,542.28
9	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	042013	2680	Sqm	230.28	617,150.40
10	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	042014	825	sqm	201.54	166,270.50
11	Columns, pillars, posts and struts	042015	2491.5	sqm	282.3	703,350.45
12	Edges of slabs and beams in floors and walls under 20cm wide	042025	990	m	88.1	87,219.00
13	Extra for additional height in centering, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering and de-centering at all levels, over a height of 3.5m for every additional height of 1 metre or part thereof in suspended floors, roofs, landing, beams and balconies (plan area to be measured)	042030	2640	sqm	90.4	238,656.00
14	Supplying and applying shuttering oil for mould releasing, having (flash point 54°C and specific gravity 0.88±0.02) for concrete formwork to be applied either by brush or with spray machine to the entire satisfaction of Engineer Incharge	042040	5223.9	sqm	8.02	41,895.68
15	In lintels, beams, bressumers	043013	1023	cum	5388.95	5,512,895.85

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16	Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge. In slabs for drain covers, manhole covers, flue tops etc.	043015	15	cum	3,735.88	56,038.20
17	Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary)of average thickness 25 mm including ramming sub grade : Flat brick	091032	2595	Sqm	237.25	615,663.75
18	12 mm cement plaster finished with a floating coat of neat cement of mix - 1:3 (1cement: 3 fine sand)	111071	30	Sqm	74.66	2,239.80
Schedule B-II Total						14,307,935.73

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Schedule B-III
Brick work, Stone Work

Items No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in : Cement mortar 1:6 (1 cement : 6 fine sand)	051015	4	cum	2,774.94	11,099.76
Schedule B-III Total						11,099.76

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Schedule B-IV Wood Work, Painting, Polishing and Varnishing						
Items No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Applying Priming Coat : With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanized iron/steel works.	121013	496.65	Sqm	20.57	10,216.09
2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade Two or more coats on new work	121051	300	Sqm	49.12	14,736.00
3	Painting with aluminium paint of approved brand and manufacture to give an even shade Two or more coats on new work	121091	11823.65	Sqm	42.95	507,825.77
4	Painting two coats (excluding priming coat) with white or green ready mixed paint of approved quality on steel or wood work	121170	4950	sqm	46.67	231,016.50
Schedule B-IV Total						763,794.36

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Schedule B-V						
Water supply drainage, sewerage & sanitary installation						
Item s No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Providing and laying non-pressure NP3 class (medium duty) R.C.C. pipes including bends etc with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement: 2fine sand) including testing of joints etc. complete up to 800mm dia. 600mm dia. R.C.C. pipe	142035	76.61	Metre	1,353.09	103,660.22
2	800mm dia. R.C.C. pipe	142037	76.61	Metre	2,315.22	177,369.00
3	Constructing brick masonry manhole in cement mortar 1:4 (1cement: 4coarse sand) R.C.C. top slab with 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1cement: 4coarse sand: 8graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1cement: 3coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design. Inside size 120x90cm and 90cm deep including C.I. cover with frame (medium duty) 500mm internal diameter, total weight of cover and frame to be not less than 116kg (weight of cover 58kg and weight of frame 58kg). With F.P.S. bricks class designation 7.5	143013	7.00	Each	11,585.85	81,100.95
Schedule B-V Total						362,130.18

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Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

Schedule B-VI
Bridge works- Substructure, Superstructure, RCC & Misc. work

Item s No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Earth work in excavation for foundations and 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 and consolidation of the layers by ramming and watering etc. incl. all lift, disposal of surplus soil upto a lead of 300 M, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge - All kinds of soils	192011	15748.6	cum	292.93	4,613,237.40
2	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40 mm nominal size, in foundation and floors, retaining walls of bridges including mechanical mixing, vibrating, pumping and bailing out water where ever required with all materials and labour complete but excluding the cost of cement and shuttering as per drawings and technical specifications as directed by Engineer	192030	40	cum	2234.33	89,373.20
3	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast - in - Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation & Pile cap including finishing, Using Admixtures in recommended proportions (as per IS 9103), if approved in Mix design to accelerate or retard setting of concrete and/or improve workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra -	192040	2156	cum	2,745.77	5,919,880.12
4	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality for the following Reinforced cement concrete structural elements up to height of 5 M from foundation top level, including finishing, Using Admixtures in recommended proportions (as per IS 9103), to modify workability & other properties without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra -					
(a)	Wing wall and Return wall	192062	1993.6	cum	3,020.34	6,021,349.82
5	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M35 grade (Cast - in Situ) In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component using 20 mm graded crushed stone aggregate and coarse sand of approved quality of cast-in-situ RCC box of size upto 5 M (bigger inside dimension) including finishing, Admixtures in recommended proportions (as per IS 9103), to modify workability & other properties without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra.	194010	2800	cum	2,745.77	7,688,156.00

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6	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Mass Cement Concrete M20 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, Including the cost of centring, shuttering and finishing complete as per drawings and technical specifications as directed by Engineer. Payment for cement & reinforcement shall be paid extra. { Note: The shuttering, scaffolding, centring, reinforcement, placing of reinforcement and cost of cement to be paid extra under relevant items.}	194020	50	cum	2,745.77	137,288.50
7	Centring and shuttering including strutting, propping etc. and removal of form for : RCC raft foundation & Pile cap	195031	431.332	Sqm	138.30	59,653.22
8	Abutment, pier, wing walls and return walls	195032	363.44	Sqm	227.40	82,646.26
9	In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component	195038	1382.81	Sqm	227.40	314,450.99
10	Providing and laying Pitching with stone boulders weighing not less than 35 kg each with the voids filled with spalls on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications (Filter media to be paid separately under the relevant items)	221050	90	cum	1,066.06	95,945.40
11	Supply and laying of coarse sand including consolidation, supply of all materials, labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer incharge in case loose slush is encountered at site of foundation before casting the foundation or before laying the filtering media. (Payment based on stack measurement)	222040	168	cum	1,386.33	232,903.44
12	Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per IS 1498 (latest) 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	222180	1046.5	cum	943.42	987,289.03
13	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours	222300	20000	HP Hour	22.74	454,800.00
14	Extra for the quantity of works, executed in or underwater and/ or liquid mud including pumping out water as required [RATE = 20% of Basic Items]	192011 (192020)	300	cum	58.59	17,577.00
15	Steel work in built-up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete. Hot Finished Welded Type Tubes	081291	121170	kg	104.52	12,664,680.69
16	Granite Pink - Area of slab over 0.5 sqm but upto 1.0 sqm	099184	5742	sqm	3748.67	21,524,863.14
17	Providing and fixing permanently colour coated trapezoidal profiled sheet of depth 28-30mm at 195-205mm pitch distance with precisely engineered "Rib & Flute" design. Profiled sheets shall be min. 0.5mm TCT/0.45mm BMT high tensile zinc aluminium alloy coated zinalume / galvalume steel sheet (550 mpa yield strength) having a coating of mass of 150 gsm zinc-aluminium coating AZ- 150 total on both sides as per AS 1397:1993 finished with 20 microns approved colour coating of Silicon Modified Polyester (SMP) / Super Polyester paint coat on exposed surface over a primer coat of 5 microns and a back coat of 5 microns on reverse side over a 5 microns primer coat. There shall be 2 small ribs/square flutes between profiles for providing additional strength. The sheet to be fixed over the purlins with hexagonal head self drilling suitable fasteners with neoprene / EPDM washer on crests of the sheet	109200	10385.7	sqm	713.34	7,408,520.97

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18	Providing and fixing permanently colour coated trapezoidal profiled sheet of depth 28-30mm at 195-205mm pitch distance with precisely engineered "Rib & Flute" design. Profiled sheets shall be min. 0.5mm TCT/0.45mm BMT high tensile zinc aluminium alloy coated zinalume / galvalume steel sheet (550 mpa yield strength) having a coating of mass of 150 gsm zinc-aluminium coating AZ- 150 total on both sides as per AS 1397:1993 finished with 20 microns approved colour coating of Silicon Modified Polyester (SMP) / Super Polyester paint coat on exposed surface over a primer coat of 5 microns and a back coat of 5 microns on reverse side over a 5 microns primer coat. There shall be 2 small ribs/square flutes between profiles for providing additional strength. The sheet to be fixed over the purlins with hexagonal head self drilling suitable fasteners with neoprene / EPDM washer on crests of the sheet	103091	1329.32	sqm	1,445.04	1,920,917.17
19	Providing & fixing of coloured galvalume plain sheet flashings at ridges / apex junctions of roofing cladding, cover / corner / barge pieces etc. in required shape, colour duly fixed with stitching screws (with EPDM washers etc. as per site requirement). Upto 600mm Girth	109261	1265	rtmr	486.89	615,915.85
Schedule B-VI Total						70,849,448.20

Amit

Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

Schedule B-VIII						
Roads and Platform works, Fencing and Boundary marks						
Item s No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50 metres	231010	1264.8	Sqm	38.41	48,580.97
2	Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade	231020	1264.8	Sqm	1.5	1,897.20
3	Providing and laying each layer of flat brick soling hand packed and joints filled with ordinary sand with well burnt bricks. Class 7.5 designation	231031	1264.8	Sqm	182.54	230,876.59
4	Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. Base course with 63mm to 45mm size including stone screening 13.2mm size	231042	189.72	cum	1,691.15	320,844.98
5	Base course with 53mm to 22.4mm size including stone screening 11.2mm size	231043	189.81	cum	1,955.22	371,120.31
6	Providing and laying 2.5cm premix carpet surfacing with 2.25Cum and 1.12cum of stone chippings of 13.2mm size and 11.2mm size respectively and 180kg of hot bitumen per 100sqm over a tack coat including consolidation with road roller of 6 to 8tonne capacity etc. complete (tack coat to be paid separately. With paving asphalt 80/ 100 heated and then mixed with solvent at the rate of 70grams per kg. of asphalt	233031	1264.8	Sqm	153.43	194,058.26
7	Providing and laying design mix cement concrete in roads, having a cube strength of M-30 using cement, coarse sand and graded stone aggregate of 40mm nominal size as per approved design. mechanically vibrated, steel form work, curing, providing and filling construction & dummy joints with approved joint filler (conforming to grade B of IS: 1834) rounding of the edges, making & filling the grooves as per drawing	236020	379.618	cum	3,093.54	1,174,363.47
Schedule B-VIII Total						2,341,741.78

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Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

Schedule B-IX
Carriage of material, supply of material

Item s No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Leading miscellaneous materials such as iron work, rails, fittings & fastenings, pipes, wooden logs, stones over pitching stone size, RCC/PCC beams / slabs etc and all similar articles (each individual article or bundle being not more than 3.5 metres long in the longest direction) including all loading, unloading and stacking, lead over 500m and upto 10 km. Note : Lead under this item is payable when the same exceeds 500m.	021150	5	MT	160.31	801.55
2	Additional lead for every subsequent km or part thereof, over 10 km and upto 100 km over item no. 021150.	021151	500	MT /Km	7.25	3,625.00
3	Leading miscellaneous materials such as iron work, rails, pipes, wooden logs, stones over pitching stone size, RCC/PCC beams/slabs etc. and all similar articles (each individual article or bundle being more than 3.5 metres long in the longest direction) by truck, traylor, etc including all loading, unloading and stacking, lead over 500m and upto 10 km. Note : Lead under this item is payable when the same exceeds 500m.	021170	41	MT	171.47	7,030.27
4	Additional lead for every subsequent km or part thereof, over 10 km and upto 100 km over item no. 021170	021171	700	MT /Km	8.40	5,880.00
Schedule B-IX Total						17,336.82

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Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

Schedule B-X Steel and Aluminium work, Roof & Ceiling, Misc. Building works						
Item s No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Structural steel work in single section including cutting, bending, straightening, drilling, rivetting, bolting, hoisting, fixing in position, including applying a priming coat of approved steel primer, complete - upto 6m height above GL in RSJ, tees, angles and channels	081011	1000	Kg	68.53	68,530.00
2	In flats, plates, round or square bars	081012	1000	Kg	68.42	68,420.00
3	In RSJ, tees, angles and channels	081031	660004	Kg	87.27	57,598,549.08
4	Structural steel work welded in built up sections, trusses and framed work, girders, stagings, racks, etc including cutting, bending, straightening, hoisting, fixing in position, including applying a priming coat of approved steel primer, complete - upto 6m height above GL in RSJ, tees, angles and channels	081032	297850	Kg	84.23	25,087,905.50
5	Providing and fixing expanded metal 20mmX60mm strands 3.25mm wide and 1.6mm thick on angle iron flat iron frames including all incidental work complete. Cost of frames to be paid separately under relevant item	081110	825	sqm	475.3	392,122.50
6	Supplying and fixing lewis/ holding down bolts of approved design with nuts and washers complete	081140	5220	Kg	67.14	350,470.80
7	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete Hot finished welded type tubes	081291	23000	Kg	104.52	2,403,960.00
8	Providing and fixing M.S. round holding down bolts with nuts and washer plates complete	081360	170	Kg	70.79	12,034.30
9	Providing and fixing permanently colour coated trapezoidal profiled sheet of depth 28-30mm at 195-205mm pitch distance with precisely engineered 'Rib & Flute" design. Profiled sheets shall be min. 0.5mm TCT/0.45mm BMT high tensile zinc aluminium alloy coated zinalume / galvalume steel sheet (550 mpa yield strength) having a coating of mass of 150 gsm zinc-aluminium coating AZ-150 total on both sides as per, AS 1397:1993 finished with 20 microns approved colour coating of Silicon Modified Polyester (SMP) / Super Polyester paint coat on exposed surface over a primer coat of 5 microns and a back coat of 5 microns on reverse side over a 5 microns primer coat. There shall be 2 small ribs/square flutes between profiles for providing additional strength. The sheet to be fixed over the purlins with hexagonal head self drilling suitable fasteners with neoprene / EPDM washer on crests of the sheet	109200	1530	Sqm	713.34	1,091,410.20
10	Providing & fixing of coloured galvalume plain sheet flashings at ridges / apex junctions of roofing cladding, cover / corner / barge pieces etc. in required shape, colour duly fixed with stitching screws (with EPDM washers etc. as per site requirement) Upto 600	109261	85	R Metre	486.89	41,385.65
11	Drilling of bore well for specified depth in all types of soil and rock mechanically with all contractor's tools, plants, material and labour up to 75 meters for 200 mm dia	171522	40	Metre	436.51	17,460.40
12	Providing supplying, lowering and fixing in bore G.I.B Class perforated casing pipe 6 mm thickness up to specified depth below ground level with all contractor's tools, plants, material and labour etc. complete 150 mm internal pipe	171532	40	Metre	1,236.59	49,463.60

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13	Providing supplying, lowering and fixing in bore unperforated MS casing pipe 6 mm thickness up to specified depth below ground level with all contractor's tools, plants, material and labour etc. complete 150 mm internal pipe	171542	16	Metre	957.23	15,315.68
14	Providing and fixing expanded metal 20mmX60mm strands 3.25mm wide and 1.6mm thick on angle iron flat iron frames including all incidental work complete. Cost of frames to be paid separately under relevant item	081110	825	sqm	475.3	392,122.50
15	Demolishing R.C.C. work including cutting and stacking of steel bars and disposal of unserviceable material within 50m lead. (Extra payment for scraping, cleaning and straightening of bars to be made separately)	181030	495	cum	729.06	360,884.70
16	1:2:4 or richer mix with max. 20 mm coarse aggregate	181021	132	cum	489.61	64,628.52
17	Extra over Item Nos. 181021 and 181050, if pavement breaker is used on orders of Engineer	181040	165	cum	218.72	36,088.80
18	In cement mortar	182013	323.4	cum	400.63	129,563.74
19	Dismantling steel work and trusses upto 10m span and 5m height in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50m lead	186020	398296	kg	1.15	458,040.86
20	Asbestos sheet	184082	4950	sqm	16.43	81,328.50
Schedule B-X Total						88,719,685.34

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Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

Schedule B-X Steel and Aluminium work, Roof & Ceiling, Misc. Building works							
Items	Description	Item	Item	Qty.	Unit	Rate	Total
No.		Code	Qty.	Unit	(Rs.)		
1	Overall percentage above/below/at par over the rates USSOR 2012 for items chapters not included in any of the existing schedule of the tender.					5,000,000.00	5,000,000.00
Schedule B-XII Total							5,000,000.00

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Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

**Schedule C-I
Supply of Cement**

Items No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Supply and using cement at worksite : OPC 43 grade	033061	5182.3	Tonne	6,631.36	34,365,696.93
Schedule C-I Total						34,365,696.93

Amr

Name Of Work:-Construction of 01 No. RUB in lieu of Level Crossing at LC-112 along with the approach portion and 03 No. FOBs falling in the DDU yard of DDU division of East Central Railway in Connection with construction of Eastern Dedicated Freight Corridor.

Schedule C-II						
Supply of Reinforcement Steel						
Items No.	Description	Item Code	Item Qty.	Qty. Unit	Unit Rate (Rs.)	Total
1	Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars	045016	1040230.2	Kg	64.46	67,053,238.69
Schedule C-II Total						67,053,238.69

Note for Stage Payment:

- i) The material shall be delivered at site and properly stored under covered sheds in measurable stacks
- ii) The quantities of materials shall be brought to the site only in such installments that would facilitate smooth progress of work and consumed in reasonable time.
- iii) Proper accountal in the material register to be maintained in the prescribed format at the site for the receipt and use of the material.
- iv) Ownership of such material shall be deemed to vest with the DFCCIL for which the contractor should submit an indemnity bond in prescribed format
- v) Before releasing the stage payment, the contractor shall insure the material at his own cost in favour of DFCCIL against theft, damages, fire etc.
- vi) Stage payment in all such cases not be more than 75% of the rate of steel awarded in the contract. The balance payment shall be released only after the material is actually consumed in the work.
- vii) The price variation claim for steel would continue to be governed as per extant PV clause and with reference to delivery at site.

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