

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

Chief Administrative Officer/Con/Eastern Railway acting for and on behalf of The President of India invites E-Tenders against Tender No 2WTCAOCER2020-21 Closing Date/Time 05/04/2021 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

Name of Work	Earth work in cutting & filling for construction of railway embankment, blanketing over formation, construction of Retaining wall, Minor bridges, RUBs, drain, approach road etc. from Ch.- 26000 to Ch.- 27370 m and Ch.- 28485 to Ch.- 32115 m (from Bishnupur), Baragopinathpur Station yard, platform and other ancillary works in between Maynapur and Baragopinathpur in connection with the construction of New B.G. line from Tarakeswar to Bishnupur.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	05/04/2021 15:00	Date Time Of Uploading Tender	22/02/2021 14:43
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	630601384.47	Tendering Section	PRD/CON/ER
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money /Bid Security (Rs.)	0.00	Validity of Offer (Days)	60
Obtain Bid Security Declaration in lieu of Bid Security	Yes		
Tender Doc. Cost (Rs.)	0.00	Period of Completion	24 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	22/03/2021	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 001-SCHEDULE A-I							204811500.00	Above/ Below/Par
001	Please see Item Breakup for details.				204811500.00	AT Par	204811500.00	
	Description:- SCHEDULE A-I(NS)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 002-SCHEDULE A-II							42090000.00	Above/ Below/Par
002	Please see Item Breakup for details.				42090000.00	AT Par	42090000.00	
	Description:- SCHEDULE A-II(NS)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 003-SCHEDULE A-III							37862070.00	Above/ Below/Par
003	Please see Item Breakup for details.				37862070.00	AT Par	37862070.00	
	Description:- SCHEDULE A-III(NS)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 004-SCHEDULE B-I(A)							86974972.39	Above/ Below/Par
004	Please see Item Breakup for details.				53033519.75	64.00	86974972.39	

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

Description:- SCHEDULE B-I(A) UNDER USSOR-2011

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 005-SCHEDULE B-I(B)							5983616.92	Above/ Below/Par
005	Please see Item Breakup for details.				2933145.55	104.00	5983616.92	
Description:- SCHEDULE B-I(B) UNDER USSOR -2011								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 006-SCHEDULE B-I(C)							16473372.60	Above/ Below/Par
006	Please see Item Breakup for details.				11683242.98	41.00	16473372.60	
Description:- SCHEDULE B-I(C) UNDER USSOR-2011								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 007-SCHEDULE B-I(D)							41034063.36	Above/ Below/Par
007	Please see Item Breakup for details.				25174272.00	63.00	41034063.36	
Description:- SCHEDULE B-I(D) UNDER USSOR-2011								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 008-SCHEDULE B-I(E)							21832969.20	Above/ Below/Par
008	Please see Item Breakup for details.				14852360.00	47.00	21832969.20	
Description:- SCHEDULE B-I(E) UNDER USSOR-2011								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 009-SCHEDULE B-II							3175000.00	Above/ Below/Par
009	Lump Sum				2500000.00	27.00	3175000.00	
Description :- Schedule-B-II[unseen items under Eastern Railway USSOR-2011](Any item under USSOR-2011 can be executed through this schedule except that items which are listed in Item Breakup of schedule B-I[A],B[I],B-I[C],B-I[D],B-I(E).								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 010-SCHEDULE C-I							64037500.00	Above/ Below/Par
010	Please see Item Breakup for details.				64037500.00	AT Par	64037500.00	
Description:- SCHEDULE C-I(CEMENT)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 011-SCHEDULE C-II							106326320.00	Above/ Below/Par
011	Please see Item Breakup for details.				106326320.00	AT Par	106326320.00	
Description:- SCHEDULE C-II(REINFORCEMENT)								

3. ITEM BREAKUP

Schedule	Schedule 001-SCHEDULE A-I
Item- 001	SCHEDULE A-I(NS)

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	001	<p>Earthwork in cutting in formation, catch /side drains, toe walls etc including compaction of cutting areas/ subgrade to the desired extent, dressing/finishing to required dimension and slope to obtain standard profile as per approved drawing. The rate shall be inclusive of all lead/lift/crossing of drains/ tracks/ pruning falling of trees etc. where ever required, as per instruction of engineer at site and placing soil in dumping areas or outside railway land or in railway embankment up to a free lead of 100 m, otherwise these have to be disposed off by the contractor outside the railway land complete in all respect as per direction of Railway's Engineer-in-charge at site. Note:- In all condition and classification of soil including kankar, soft rock etc which can be removed by pick and crow bar without blasting and excluding hard rock requiring blasting. (i) The work includes bailing/pumping out of water, if required. (ii) The contractor will provide all labour, tools and plants, incidental charges etc (iii) Payment will be made based on approved cross section. (iv) All usable earth arising from cut spoils shall be lead into bank upto free lead of 100m. Unusable spoils shall be dumped out with all lead & lift as directed by Engineer-in-charge. (v) The rate is inclusive of compaction of subgrade to the desired extent as per direction of engineer-in-charge. (vi) The item of cutting and filling in formation will involve felling of trees along with pruning of trees as required. They will be responsible for cutting and removing of trees in safe manner as per direction of Engineer-in-charge. The trees felled will be property of Railway and nothing extra will be paid in this account. They will keep this element in view while quoting his rates against this item. Railway will only provide permission from forest officials to cut of such trees. (vii) The above item is to be executed in the location as mention in the 'name of work'. However, if required , this item may also be operated in any location from Maynapur(Ch.- 23200 m from VSU / Ch.- 59370 m from TAK) or to Gopinathpur(Ch.- 32115 from VSU / Ch.- 50455 from TAK) & Baragopinathpur(Ch.- 30781 from VSU / Ch.- 51790 m from TAK) in district Bankura, W.B. as per instruction of Engineer-in-charge. (viii) Work should be carried out as per RDSO's latest guideline (Specification No. RDSO/2020/GE: IRS-0004, Sept'20)</p>	10 cum	3000.00	508.00	152400.00

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

2	002	<p>Earthwork in filling in embankment, trolley refuge, etc. with all classification of approved quality of soil done in layers with breaking of all size of clods to 75mm or lesser size, filling of loose pockets, voids and hand ramming as directed by Engineer-in-charge complete in all respect. Earthwork to be carried out according to RDSO's latest guideline (Specification No. RDSO/2020/GE: IRS-0004, Sept'20), Engineering Code and Additional Conditions and Specifications attached in tender document/contract agreement. The payment will be made as per approved cross section only after necessary compaction and all necessary testing of compaction in layers to be done by contractor upto the satisfaction of engineer-in-charge. The mechanical compaction shall be paid separately against item no 3 of Schedule-'A-I'. Notes: (i) 25% variation limit shall not be applicable to these items if more than one item is operated as these items may vary widely depending on quantity and nature of soil released from cutting vide item 1. (ii) Earthwork shall be done strictly in accordance with the provisions of RDSO's latest Guideline for Earthwork in Railway projects Engineering Code, General Conditions of Contract & Additional Conditions and Specifications given in the tender document. (iii) Payment of royalty, taxes, cost of earth and any other incidental charges are to be borne by the contractor and the quoted rate should include all such charges. (iv) The contractor shall establish field laboratory with all equipment for conducting required soil tests and compaction tests at site at his own cost. The contractor shall also supply required number of printed registers/file/folders free of cost for recording of test results of earthwork and compaction tests. The field laboratory shall be equipped with minimum equipments as listed in "Comprehensive Guideline and Specification for railway Formation - Specification No. RDSO/2020/GE: IRS-0004, Sept-2020" to facilitate the following minimum tests: (a) Gradation Analysis including Hydrometer Analysis, (b) Soil classification as per IS : 1498- 1970. (c) Atterberg's limits-liquid limits & plastic limits, (d) Free swell index, (e) Specific Gravity, (f) Optimum moisture content (OMC), Maximum Dry Density (MDD) and Relative Density, (g) Placement moisture content & in-situ density, (h) CBR as per IS:2720 etc. The field/site lab should be manned adequately by contractor at his own cost with technical person(QA/QC Engineer) capable of carrying out required investigation, all soil testing and quality control at site, plotting of cross section with all documentation work.(v) Samples of existing soil and borrowpit earth along with their test results as prescribed and 'slope stability analysis' results shall be submitted to the Engineer-in-Charge for approval before making the embankment. A test bank i.e. field compaction trial should be conducted for working out optimum layer thickness and number of roller passes. Tests shall be done by contractor's own cost.(for complete specification see special condition sl.no. 1 under compliance head) (a) With usable earth obtained from cut spoil vide item code no 001 above upto a lead of 800 m over and above free lead of 100 m of item 1 above with all lead and lift as per site condition.</p>	10 cum	3000.00	317.00	95100.00
3	003	<p>(b) Extra over item code no.002 for each additional lead of 800 m or part over initial lead (800m+100m) as per site conditions.(This item to be executed as per specification shown in item code no.002 above)</p>	10 cum	3000.00	158.00	47400.00

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

4	004	(c) With Contractor's earth of approved quality and Railway's specification, obtained from outside Railway land with loading, unloading, all lead, lift, ascend, descend, crossing of nullah, road, fencing track and any other obstructions etc. including material cost & other incidental charges complete in all respect.(This item to be executed as per specification shown in item code no.002 above)	10 cum	865000.00	2262.00	195663000.00
5	005	Extra for mechanical compaction of above earthwork in embankment with contractor's roller in layers each to achieve the required density as per RDSO's latest guideline and as per Additional Special Conditions and Specifications of tender document, including all incidental charges, compaction testing of soil, sprinkling of water, if required, complete in all respects. Suitability of roller will be decided by site Engineer based on soil classification. Note:- (i) If due to site constraints, mechanical compaction is not possible by roller, the work shall be done with mobile plate vibrator as directed by engineer-in-charge. (ii) Payment will be made as per approved finished cross section. (iii) The above item is to be executed in the location as mention in the 'name of work'. However, if required , this item may also be operated in any location from Maynapur(Ch.- 23200 m from VSU / Ch.- 59370 m from TAK) or to Gopinathpur(Ch.- 32115 m from VSU / Ch.- 50455 m from TAK) & Baragopinathpur(Ch.- 30781 m from VSU / Ch.- 51790 m from TAK) in district Bankura, W.B. as per instruction of Engineer-in-charge.	10 cum	868000.00	102.00	8853600.00
					Total	204811500.00
Schedule	Schedule 002-SCHEDULE A-II					
Item- 002	SCHEDULEA-II(NS)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

1	001	<p>Supplying blanketing materials Stone dust as per RDSO latest Specification and "Comprehensive Guideline and Specification for railway Formation - Specification No. RDSO/2020/GE: IRS-0004, Sept-2020" as per RDSO letter no. GE/GEN/185-Vol-I dated 17-09-2020, spreading it in layers on the top of newly constructed bank, compacting by vibratory Roller (including sprinkling of water) to make approved profile. The rate shall include cost of material including taxes, royalties, lead, lift, ascend, descend, crossing railway track and all other operations in connection with the above complete in all respect. Payment will be made as per approved compacted cross section only. Stone dust transported by contractor's road vehicle from quarry to site of work including unloading, spreading & compaction NOTES:(i) Blanketing materials primarily comprise of well-graded granular material such as quarry stone dust, coarse grained soil as per RDSO latest Specification No. RDSO/2020/GE: IRS-0004 dt. SEPT-20 (ii) The material should be obtained from nearest approved quarry i.e, Pakur/ Rajgram /Nalhati/ Rampurhat /Bakuddih/Taljhari etc. (iii) The rate shall include cost of material, labour, loading, unloading, spreading, transporting it as specified and testing and all other charges required to complete the work. (iv) Final payment shall be made after completion of the formation profile in all respect on the basis of volume measurements by cross-section method. (v) The above item is to be executed in the location as mention in the 'name of work'. However, if required , this item may also be operated in any location between Mahaldanga to Baragopinathpur and Gopinathpur area in district Bankura as per instruction of Engineer-in-charge. (vi) Before undertaking the blanketing work involving movement of machineries, equipments road vehicles etc in the vicinity of existing track, the contractor shall ensure protection of track as per direction of engineer at site. (vii) Quality of blanket material (stone dust) shall conform to RDSO latest guideline and Specification. Any deviation, in the guideline /specification based on logic/local condition, can be permitted with the approval of PCE/CAO(Con) only. (viii) The testing of blanketing material will be done for every 500 m3 as per RDSO's latest guideline (i.e. as per table- 7.2, Pg. No.- 72-73 of RDSO/2020/GE: IRS-0004, Sept'20) .The Rly reserves the right, to get the blanket material tested from approved laboratory. Only Railway will decide as to where the blanket sample test will be done. The charges of blanket material testing from laboratory will be borne by the contractor each and every time. The contractor will provide all requisite BIS sieves at site to do grain size analysis at field/site laboratory and field/site lab should be manned adequately by contractor at his own cost with trained technical person(QA/QC Engineer) capable of carrying out required investigation, blanket materials testing and quality control at site with all documentation work. The Engineer-in-charge or his representative will conduct grain size analysis at site.</p>	cum	34500.00	1220.00	42090000.00
					Total	42090000.00
Schedule	Schedule 003-SCHEDULE A-III					
Item- 003	SCHEDULE A-III(NS)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

1	001	Turfing surface area of newly constructed embankment slope with green grass sods of thickness 50mm of quality as approved by engineer-in-charge . The rate includes purchase price of approved quality of sods, its transportation to site, ramming the same to plain surface in position including crossing of tracks, nullah, leading, lifting, watering and safeguarding the same until properly rooted through the embankment soil etc. complete in all respect.	100 Sqm	145000.00	876.00	1270200.00
2	002	Supplying & driving approx. 5.5 m to 7 m. long hard wood piles (without any joint) of Eucalyptus or similar type of dia 125mm (average) for protection of bank slope in water bodies, bridge approaches & other locations, if required, as directed by Railway engineer at site including supplying and erecting derrick, monkey and necessary equipments to penetrate the piles in any types of soil, removal of the equipments from the site after completion of the work. The rate includes all cost of material, labour, transportation, lead, lift, descend, ascend and two coats of coal tarring on pile complete in all respect. Note: (i) Payment will be made as per actual length of pile supplied at site. Driving shall be done to the required depth as directed by Engineer-at-site. (ii) All sorts of safety aspects to be observed by the contractor at his own risk and cost during execution of work by the side of running track and over-head live wires. (iii) Each pile shall be of average diameter 125mm. The average diameter of a pile will be its actual diameter measured at a point located at a distance 1/3rd of its length from its head.	Metre	1050.00	175.00	183750.00
3	003	Supplying and fixing bitumen drum sheet by nailing to wooden piles 125 mm dia supplied & driven vide Item No. 2 above, with railing as directed by the Engineer at site for guarding against slippage of earth as per approved drawing. The rate includes supplying of all necessary materials, fittings like nails, metal washer to hold in proper position, all labour, equipment, all lead, lift, descent, crossing of Rly. tracks, fencing etc. complete in all respect. Note: This item to be operated on specific written instruction of site engineer about location and quantity.	Sqm	850.00	330.00	280500.00
4	004	Supply of labour(helpers) for any kind of site work as per direction of Engineer-in-Charge. Rate includes a full set of First Aid Box must be keep at worksite by the contractor.	Man-Days	3000.00	491.00	1473000.00
5	005	Hiring of local Amin for measurement and demarcation of Railway boundary as per land acquisition plan and relevant mouza maps etc. before starting the site work as directed by Engineer-in-Charge.	Each	40.00	813.00	32520.00
6	006	Supplying and filling, watering and compacting back fill materials behind the boulder backing of abutments as per RDSO's drawing no. GE/SD/0006/REV.-I/2002 or RDSO's latest drawing as per direction Engineer -in-charge in conformation with guidelines for earthwork in Railway projects (guideline no.GE.GI.July/03) or as per RDSO's latest guideline. The backfill materials will consists of a mixture of SW, GW, GP group as per IS :1498-1970. The compaction will be done with vibratory plate compactors in layers not exceeding 150mm as per direction Engineer - in - charge. The quoted rate will include all necessary tests from approved laboratory, all lead, lift, ascend, descend. labour, tools & plants, vibrators, consumable materials and watering of the layers.	cum	27000.00	918.00	24786000.00

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

7	007	Making of reinforcement of any dia. including cutting, bending ,binding and placing with the supply of 18SWG/1.2192 mm (SWG=Standard wire gauge) galvanised binding wire as per approved drawing and IS : 2502 - 1963. This item to be operated against RCC items under ER/USSOR-2011	MT	1660.00	5365.00	8905900.00
8	008	Driving of 90R/52Kg scrap rails as directed by the Engineer-in-charge of the work for protection works for embankment. The rate includes supply and erecting of derrick, monkey, winch and all other equipments required for driving rail piling and removal of the equipments after completion of the work. The rail will be issued free of cost as available within Howrah Division. The contractor shall carry the rails to the site of work up to a free lead of 300 meter and extra lead will be paid separately as specified in USSOR. The rate also includes cost of contractor's labour, tools & plants, transportation, crossing of roads/nullah, all lead, lift, ascend, descend, loading, unloading, drilling holes on the web of rail, making V-notch, painting two coats of approved sheds and colour on the rail surface etc. complete in all respect. Note :- i) The execution of the above work will be taken into account after prior approval of Site Engineer.	Metre	2300.00	166.00	381800.00
9	009	Supplying & placing in position sand bags at any level for making sand bag wall as per direction of engineer in charge for protection of bank slope in major & minor bridges after dismantling of existing wing & return wall or any other structure to ensure the safety of existing bridges or any structure as specified in the drawing. The rate includes cost of empty bag, supply of all labours, consumable materials, tools, plants, crossing of track, obstruction, lead, lift & removal of sand bags after completion of work if required observing all safety measure complete in all respect. The rate is excluding cost of sand, which will be paid separately under relevant item in Sch.B-I.	Each Bag	3000.00	12.00	36000.00
10	010	Spreading of sand/moorum, watering and consolidating of supplied sand/moorum complete in all respect. The quoted rate will include all necessary tests, all lead, lift, labour, tools & plants, plate vibrators and watering of the layers. The rate is excluding cost of sand/moorum. Cost of sand/moorum shall be made against It. No.- 39, 40 of Sch.- B-I(C) or any other similar Items.	cum	12200.00	42.00	512400.00
					Total	37862070.00
Schedule	Schedule 004-SCHEDULE B-I(A)					
Item- 004	SCHEDULE B-I(A) UNDER USSOR-2011					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level :				
1	031011	1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size)	cum	50.00	2139.85	106992.50
		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.				
2	031023	1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size)	cum	1750.00	2325.34	4069345.00
		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 :				

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

3	031051	All works upto Plinth level	cum	100.00	2247.57	224757.00
4	031052	All works above plinth level in retaining walls, walls (of any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, anchor blocks, parapets, copings, bed blocks, string or lacing courses, window sills, fillets, kerbs, steps etc.	cum	10.00	2384.98	23849.80
		Centering and shuttering including strutting, propping etc. and removal of form work for :				
5	031061	Foundations, footings, bases of columns	Sqm	1500.00	146.28	219420.00
		Providing and fixing at or near ground level, Precast M 20 grade cement concrete as per approved design and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), including the cost of required centering and shuttering complete but excluding the cost of cement. (cast at site)				
6	032032	in ash pit stones, platform coping stones etc.	cum	135.00	2867.84	387158.40
7	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 and for gaining early strength	Kg	34800.00	77.03	2680644.00
		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				
8	041011	All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc.	cum	12000.00	2732.49	32789880.00
9	041012	All work in buildings above plinth level upto floor two level.	cum	100.00	3004.22	300422.00
10	041015	In kerbs, steps and the likes etc.	cum	12.00	2638.05	31656.60
		Centering and shuttering including strutting, propping etc. and removal of form for :				
11	042011	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	15500.00	145.90	2261450.00
12	042012	Walls (any thickness) including attached plasters, buttresses, plinth and string courses etc.	Sqm	29000.00	239.00	6931000.00
13	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	1350.00	234.36	316386.00
14	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	2000.00	208.55	417100.00
15	042015	Columns, pillars, , posts and struts	Sqm	2000.00	297.00	594000.00
16	042016	Stairs (excluding landings) except spiral-staircases	Sqm	800.00	289.10	231280.00
		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.				
17	043011	In string courses, bands, coping, bed plates, anchor blocks, plain window sills, and the like	cum	10.00	3106.52	31065.20

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

18	043020	Providing, hoisting and fixing in position M25 Grade Reinforced cement concrete in Precast standard Platform wall sections, including the 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 but excluding the cost of cement and steel reinforcement, as per approved plan & as per direction of the Engineer incharge.	cum	125.00	3021.29	377661.25
		Cement plaster skirting (upto 30cm height) with cement mortar 1:3 (1cement: 3coarse sand) finished with a floating coat of neat cement				
19	092021	15mm thick	Sqm	100.00	116.08	11608.00
		12 mm cement plaster of mix -				
20	111042	1:6 (1cement: 6coarse sand)	Sqm	1500.00	64.99	97485.00
21	111090	12 mm cement plaster 1:3 (1cement: 3coarse sand) finished with a floating coat of neat cement	Sqm	100.00	78.37	7837.00
		Cement plaster to ceiling of mix -				
22	111151	6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	100.00	55.56	5556.00
23	236010	Cement concrete Grade M15 of coarse aggregate 40mm nominal size, in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete	cum	200.00	2020.53	404106.00
24	236020	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	cum	200.00	2564.30	512860.00
					Total	53033519.75
Schedule	Schedule 005-SCHEDULE B-I(B)					
Item- 005	SCHEDULE B-I(B) UNDER USSOR -2011					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in :				
1	051014	Cement mortar 1:4 (1 cement : 4 fine sand)	cum	50.00	2208.57	110428.50
2	051015	Cement mortar 1:6 (1 cement : 6 fine sand)	cum	1200.00	2163.97	2596764.00
3	051040	Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level :	cum	200.00	151.99	30398.00
		Half brick masonry with bricks of class designation 7.5 in foundations and plinth in :				
4	051182	Cement mortar 1:4 (1 Cement : 4 coarse sand)	Sqm	80.00	265.31	21224.80
5	051190	Extra for half Brick masonry in superstructure above plinth level upto floor two level	Sqm	135.00	42.15	5690.25
		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 :				
6	091032	Flat brick	Sqm	250.00	171.16	42790.00
		Providing and laying each layer of flat brick soling hand packed and joints filled with ordinary sand				
7	231031	With well burnt bricks. Class 7.5 designation	Sqm	500.00	132.08	66040.00
8	231032	With Jhama bricks	Sqm	500.00	119.62	59810.00
					Total	2933145.55
Schedule	Schedule 006-SCHEDULE B-I(C)					
Item- 006	SCHEDULE B-I(C) UNDER USSOR-2011					

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 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 and paid for in layers of 1.5m each, including incidental work, as per specifications-in				
1	011011	All kinds of soils	cum	1000.00	88.16	88160.00
2	012010	Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly	cum	200.00	9.20	1840.00
3	021080	Leading ballast, kankar, surkhi, lime, sand, ashes, stone-chips, pitching, stone, boulders, soling, stone, rubble stone, brickbats, shingle, dry mortar, laterite or similar materials including picking up and stacking, lead upto 50m	cum	300.00	97.39	29217.00
4	021081	Additional lead for every subsequent 50m or part thereof, over 50m and upto 500m over item no. 021080	cum	300.00	24.27	7281.00
		Loading/Unloading G.I. sheets, rails, joists, built up sections, angles, C.I., Ductile pipes, A.C Pipes, or G.I. pipes RCC/PCC beams / slabs and other miscellaneous ironwork or wood work including lead upto 50m and stacking properly into/from trucks, trailers or wagons.				
5	021131	Individual length upto 3.5 M	MT	100.00	105.45	10545.00
6	021140	Leading miscellaneous materials such as iron work, rails, fitting & 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 picking up unloading and stacking, lead upto 50m.	MT	100.00	99.70	9970.00
7	021141	Additional lead for every subsequent 50m or part thereof, over 50m and upto 500m over item no. 021140.	MT	50.00	27.79	1389.50
8	021150	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.	MT	100.00	191.68	19168.00
9	042040	Supplying and applying shuttering oil for mould releasing, having (Flash point 54 degree 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	Sqm	35000.00	6.43	225050.00
10	048070	Vacuum dewatering of all types & grade concrete by mechanical means including draining out the sucked excess water from concrete & then finishing the surface smooth with mechanical trowelling with suitable equipment etc. complete. The methodology to be adopted will be as per user manual of dewatering & trawling machine and as directed by Engineer.	Sqm	8000.00	7.32	58560.00
		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				
11	081031	In RSJ, tees, angles and channels	Kg	2000.00	100.34	200680.00

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

12	081032	In flats, plates , round or square bars	Kg	2000.00	97.88	195760.00
13	091070	Moorum flooring 10 cm thick (consolidated depth) including watering and ramming. With Contractor's Moorum	Sqm	4600.00	128.52	591192.00
		Providing & fixing Precast Chequered tiles conforming to IS:13801:1993, manufactured under mechanical vibration & hydraulic pressing machine in double layer; top layer of 10 to 12 mm thickness of Dolomite Powder, graded chips, fibre and UV stabilised iron oxide Lanexess colour and bottom layer of 1:3 CC mixed with galvanised steel fibre of approved quality, jointed with neat cement slurry mixed with pigment to match shade of tiles including rubbing and cleaning etc. complete on 20mm thick bed of cement mortar 1:4 of sizes :				
14	094061	250mm x 250mm x 25mm thick	Sqm	100.00	522.36	52236.00
15	094062	300mm x 300mm x 30mm thick	Sqm	1250.00	646.93	808662.50
16	094063	400mm x 400mm x 35mm thick	Sqm	150.00	769.12	115368.00
17	115110	Finishing walls with water proofing cement paint of required shade two or more coats on new work applied @ 3.84 Kg/10 sqm	Sqm	500.00	41.76	20880.00
		Oil bound distemper after removing old white/ colour wash by scrapping and sand papering etc., preparing the surface smooth including necessary repairs to scratches with putty etc complete				
18	117081	Two or more coat, to give an even shade	Sqm	300.00	55.34	16602.00
		Plastic emulsion paint after removing white/colour wash by scrapping and sand papering etc., preparing the surface smooth including necessary repairs to scratches with putty etc complete				
19	117091	Two or more coat, to give an even shade	Sqm	300.00	81.58	24474.00
		Applying Priming Coat :				
20	121011	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	100.00	22.42	2242.00
		Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				
21	121052	One or more coats on old work	Sqm	100.00	32.44	3244.00
22	121150	Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work	Sqm	300.00	47.65	14295.00
23	121180	Painting one coat with white or green ready mixed paint of approved quality on steel or wood work	Sqm	10.00	33.92	339.20
		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.				
24	142034	500mm dia. R.C.C. pipe	Metre	100.00	974.71	97471.00
		Demolishing plain cement concrete including disposal of material within 50m lead				
25	181021	1:2:4 or richer mix with max. 20 mm coarse aggregate	cum	100.00	448.29	44829.00
26	181022	Mix leaner than 1:2:4 with coarse aggregate larger than 20mm	cum	100.00	276.32	27632.00
27	181030	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)	cum	200.00	654.01	130802.00
		Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50m lead				
28	182013	In cement mortar	cum	1000.00	378.50	378500.00

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

		Extra for removing mortar from bricks and cleaning bricks (stacks of cleaned bricks shall be measured)				
29	182023	From brick work in cement mortar	1000 Nos.	5000.00	1301.74	6508.70
30	222240	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white back ground with all labour, tools, cement, paint etc.with all lead and lifts	Each	52.00	547.29	28459.08
		Providing & laying non pressure NP-4 Class RCC pipe with collars, jointing with 1:2 Cement and ordinary sand mortar including testing of joints but excluding earth work with all labour and material as a complet job. Cement for mortar will be paid seperately				
31	222261	600 mm dia.	Metre	100.00	1939.08	193908.00
32	222264	1200 mm dia.	Metre	100.00	4486.55	448655.00
33	222300	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours	HP Hour	20000.00	24.80	496000.00
		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.				
34	231042	Base course with 63mm to 45mm size including stone screening 13.2mm size	cum	500.00	1580.73	790365.00
		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				
35	233011	On W.B.M. @ 0.4kg/ sqm	Sqm	1500.00	24.42	36630.00
		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.				
36	233031	With paving asphalt 80/ 100 heated and then mixed with solvent at the rate of 70grams per kg. of asphalt	Sqm	1500.00	155.56	233340.00
37	235010	Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on 180micron sieve) with bitumen using 128 kg of bitumen of grade 80/ 100 bitumen and 0.60cum of fine aggregate per 100sqm of road surface including rolling and finishing with road roller all complete. Note - This should not be operated along with Hot mix carpeting	Sqm	1500.00	67.17	100755.00
		Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702 prepared by using mastic cooker and laid to required level and slope including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10cm centre to centre in both directions, pressed into surface protruding 1mm to 4mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification)				

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

38	238031	25 mm thick	Sqm	1500.00	700.51	1050765.00
39	238032	40 mm thick	Sqm	100.00	1120.82	112082.00
40	251190	Thermocol sheets of various standard sizes 20mm thick	Sqm	1000.00	28.75	28750.00
41	252020	Moorum	cum	2200.00	434.38	955636.00
42	252140	Local sand / pit sand/yamuna sand for filling purposes	cum	10000.00	402.50	4025000.00
					Total	11683242.98
Schedule	Schedule 007-SCHEDULEB-I(D)					
Item- 007	SCHEDULE B-I(D) UNDER USSOR-2011					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		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				
1	192011	All kinds of soils	cum	38500.00	316.31	12177935.00
2	194010	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), if approved in Mix design, to accelerate, retard setting of concrete, improve workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra	cum	2750.00	2178.24	5990160.00
3	194020	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	cum	800.00	2178.24	1742592.00
4	195020	Providing and applying two coats of coal tar or bitumen conforming to IS 3117 - 1965 on the top and sides of RCC box/slabs @ 1.70 Kgs / Sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer	Sqm	37500.00	96.41	3615375.00
		Centring and shuttering including strutting, propping etc. and removal of form for :				
5	195031	RCC raft foundation & Pile cap	Sqm	1000.00	145.90	145900.00
6	195032	Abutment, pier, wing walls and return walls	Sqm	2000.00	239.00	478000.00
7	195033	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall, etc.	Sqm	1000.00	234.36	234360.00
8	195034	Approach slab at formation level, Dirt wall/ ballast wall at formation level	Sqm	500.00	145.90	72950.00
9	195038	In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component	Sqm	3000.00	239.00	717000.00
					Total	25174272.00
Schedule	Schedule 008-SCHEDULE B-I(E)					

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

Item- 008 SCHEDULE B-I(E) UNDER USSOR-2011						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	221020	Laying of boulder apron laid in wire crates of approved size including overlaps at joints laid with stone boulders, all loose ends to be tied with 4 mm galvanised steel wire. Payment for boulders & wire crates to be done extra	cum	1500.00	279.15	418725.00
2	221030	Supplying galvanized wire net trungrs made from 4 mm galvanised steel wire @ 32 kg per 10 sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100 x 100 mm	Sqm	3500.00	319.99	1119965.00
3	221050	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 item)	cum	3000.00	1080.90	3242700.00
4	221070	Providing and laying Filter material As Per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical specification	cum	500.00	2033.94	1016970.00
5	222290	Providing Boulder backing behind wing wall, return wall, retaining wall with hand packed boulders & cobbles with smaller size boulders toward the back including all lead, lift, labour & other incidental charges as complete work in all respect. Payment for boulder/cobbles will be done extra	cum	11000.00	144.75	1592250.00
6	252390	Stone Boulder Weighing minimum 35 Kg Each	cum	12500.00	596.94	7461750.00
					Total	14852360.00
Schedule	Schedule 010-SCHEDULE C-I					
Item- 010	SCHEDULE C-I(CEMENT)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

1	001	Supply of cement to the site of work to the extent required by the Railway for use in the work. The rate quoted shall include all costs of loading, transportation, unloading, lead, lift, storing and all other incidental charges. Notes for Sch. C-I : 1[Materials as per requirements shall be brought to site and kept under Contractor custody at their own cost and risk, without any damage like setting of cement etc. 2] Payment of the materials will be made through running and final bills, as per actual consumption in the work and whatever wastage taken place i.e. empty cement bags, etc. will be the contractors property and the same shall be removed from the site at his own cost. 3] The materials are to be procured for the main producers/authorized dealers/authorized stock yards and shall conform to latest IS[BIS], specifications. 4] Cement bags preferably in papers bags should bear following information in legible marking: i] Name of Manufacturer : ii] Regd. Trade mark of manufacturer, if any: iii] Type of Cement: iv] Wt. of each bag in Kg. or No. of bags/Tonne, v] Date of manufacturing: generally marked as week-month-year of manufacture: vi] It will bear the ISI Certification mark: 5] Manufacturer-s test certificate conforming to latest IS[BIS] Specification should also be produced by Contractor, duly authenticated by the Gazetted Officer of the Engineering Department.6] Contractor shall also establish his own field laboratory equipped with apparatus duly manned for carrying out the following tests of Cement according to relevant IS[BIS] specification. i] Compressive & tensile strength. ii] Initial and final setting time. iii] Consistency : iv] Soundness : v] Fineness modules : 7] The railway reserves the right to take samples of materials supplied by the Contractor and to get the same tested in reputed laboratories and the results there of shall be binding on the Contractor. Cost of the test to be born by the contractor. [a] Slag Cement confirming to IS- 455 with latest correction slip.	MT	2300.00	7820.00	17986000.00
2	002	(b) Ordinary Portland Cement (OPC) conforming to IS : 8112/IS 12269 (43/53 Grade) with latest correction slips. [Work should be carried out as per description shown in above item code no.001]	MT	5500.00	8373.00	46051500.00
					Total	64037500.00
Schedule	Schedule 011-SCHEDULE C-II					
Item- 011	SCHEDULE C-II(REINFORCEMENT)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

1	001	Supply of reinforcing Steel to the site of work to the extent required by the Railway for use in the work. The rate quoted shall include all costs, transportation, storing and all other incidental charges. Notes for Sch. C-II : 1] Materials as per requirements shall be brought to site and kept under Contractor custody at their own cost and risk, without any damage like rusting of steel etc. 2] Payment of the materials will be made through running and final bills, as per actual consumption in the work and whatever wastage taken place i.e. cut pieces, etc. will be the property of contractor and the same shall be removed from the site at his own cost. 3] Steel should be purchased only from the manufacturers mentioned in the clause 14.5[i] of Ch-II of annex tender document. 4] Manufacturer-s test certificate conforming to latest IS[BIS] Specification should also be produced by Contractor, duly authenticated by the Gazetted Officer of the Engineering Department. 5] The railway reserves the right to take samples of materials supplied by the Contractor and to get the same tested in reputed laboratories and the results there of shall be binding on the Contractor. Cost of the test to be born by the contractor. [a] Reinforcement steel [TMT] conforming to IS- 1786 of any diameter.	MT	1660.00	64052.00	106326320.00
					Total	106326320.00

4. ELIGIBILITY CONDITIONS

Important : All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	<p>Technical Eligibility Criteria- EXECUTION OF SIMILAR NATURE OF WORK: Tenderer should have PHYSICALLY COMPLETED--(a)The tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:Three similar works costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works costing not less than the amount equal to 40% of advertised value of the tender, or One similar work costing not less than the amount equal to 60% of advertised value of the tender.(b) (i) In case of composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:Three similar works costing not less than the amount equal to 30% of advertised value of each component of tender, orTwo similar works costing not less than the amount equal to 40% of advertised value of each component of tender, or One similar work costing not less than the amount equal to 60% of advertised value of each component of tenderNote: Separate completed works of minimum required values for each component can also be considered for fulfillment of technical eligibility criteria.(b)(ii) In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity. Any work or set of works shall be considered to be a separate component, only when cost of the component is more than Rs. 2 crore each.SIMILAR NATURE OF WORK FOR THIS TENDER IS : "ANY CIVIL ENGINEERING WORK INVOLVING EXECUTION OF EARTHWORK /BLANKETING IN FORMATION OR IN CUTTING WITH MECHANICAL COMPACTION AND CONSTRUCTION OF BRIDGES." Insupport of fulfilmentof specified minimum technical eligibility criteria, the tenderer has to submit the credential certificate [scanned copy in PDF format of the original document] with their e-offer for the physical completion of the similar nature of work. . TENDERS NOTACCOMPANIED BY DOCUMENTARY EVIDENCE IN SUPPORT OF ELIGIBILITY CRITERIA FOR SIMILAR NATURE OF THE WORK WILL BE SUMMARILY REJECTED. [FOR COMPLETE DETAILS OF THE TECHNICAL ELIGIBILITY CRITERIA FOR SIMILAR NATURE OF THEWORK, PLEASE REFER CLAUSE 18 CHAPTER-I OF THE TENDER DOCUMENT].</p>	No	No	Allowed (Mandatory)

Special Financial Criteria

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Tenderer has to submit [scanned copy in PDF format of the original document] The tenderer must have received contractual payments in the previous three financial years and the current financial year upto the date of inviting of tender, at least 150% of the advertised value of the tender. The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department / client or Audited Balance Sheet duly certified by the Chartered Accountant /Certificate from Chartered Accountant duly supported by Audited Balance Sheet. Tenders not accompanied by documentary evidence in support of Financial eligibility criteria, WILL BE SUMMARILY REJECTED. [FOR COMPLETE DETAILS OF THE FINANCIAL ELIGIBILITY CRITERIA FOR CONTRACT AMOUNT RECEIVED, PLEASE REFER CLAUSE 18.2 CHAPTER-I OF THE TENDER DOCUMENT].	No	No	Allowed (Mandatory)

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	BID CAPACITY : The Tenderer/technical bid will be evaluated based on bid capacity formula detailed as Annexure -6 of the annex tender document. Tenderer has to submit(scanned copy in PDF format of the original document) bid capacity statement duly certified by Chartered Accountant also with his/their e-offer. Failing which his/their offer shall be considered as incomplete and will be rejected summarily.	No	No	Allowed (Mandatory)

Submission of Document Verification Certificate

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please submit a certificate in the prescribed format (please download the format from the link given below) for verification / confirmation of the documents submitted for compliance of eligibility / qualifying criteria. Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certificatio)	No	No	Allowed (Mandatory)

5. COMPLIANCE

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1. Payment of Earnest Money deposit (EMD) & Tender Document cost (TDC), in respect of e-tendering, should be accepted through net banking or payment gateway only. Note: Fixed Deposit Receipt (FDR) will not be accepted as EMD for tenders invited on IREPS (e-tender portal).The TDC & EMD is to be paid in favour of Financial Adviser and Chief Accounts Officer/Con/ER, 14 Strand Road, 3rd floor, Kolkata-700001. For more details on EMD please refer clause no. twenty and Chapter no. two of the tender document.	No	No	Not Allowed

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

2	2. All documents in support of fulfilment of eligibility criteria with respect to completion of Similar nature of work for Technical Eligibility Criteria and Total contract value for Financial Eligibility Criteria should be furnished along with the tender and should be submitted online at the time of tender bidding. Tenders not accompanied by documentary evidence in support of eligibility criteria will be summarily rejected. No post tender communication, in any form will be made or entertained, after opening of tenders, in this regard. Railways may however call for the originals of the credentials for verification or any clarifications/confirmations on the contents of the documents submitted.	No	No	Not Allowed
3	3. Tenderers shall note that the submission of other supporting documents namely Constitution of firm/JV firm, Work in hand, Arbitration/Court cases, Tools and Plants, Technical Personnel/Man Power and Association of railway Officers, at the time of on line bidding of tender, is important and they shall ensure the same. However Railways may seek clarifications/details/documents in this regard.	No	No	Not Allowed
4	The prospective tenderers /bidders must have a "Class III Digital Signature"with Company name from any Certifying Agency (CA) authorized by Controller of Certifying Authorities (CCA). They also have to submit online request for registration sufficiently in advance to get themselves registered on IREPS (Works) in order to participate in e-tendering in works contracts.	No	No	Not Allowed
5	In order to participate in e-tendering on IREPS (Works), the prospective Joint Venture Firm (JV) must have requisite valid Digital Signature issued in the name of the said JV Firm and must have registration with IREPS (Works) in the name/identity of the JV firm . E-offer of a JV firm submitted with digital signature issued and registered with IREPS in the name/identity of one of its constituent member shall be SUMMARILY REJECTED.	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
-------	-------------	-----------------------	-----------------	---------------------

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

1	<p>(Balance specification of item code no. 002 to 004 of schedule A-I)(vi) Soil testing shall be done at frequency of quality assurance as per RDSO/2020/GE: IRS-0004, Sept-2020" at least one test at every change of soil strata subject to minimum of one test for every 5000 m³ (as per table- 7.2, Pg. No.- 72-73) to assess suitability of fill material and to lay down OMC and MDD/Relative density. Only Railway will decide as to where the soil sample test will be done. The cost/charges of all such testing shall be borne by the contractor. (vii) The contractor shall take undisturbed samples as per IS : 2132-1986 of the parent soil over which the embankment shall rest and shall conduct prescribed laboratory test to enable analysis of stability of the base to assess its long term stability and distance of borrow pits etc. test results and technical observations should be submitted for approval of the Engineer- in-charge.(viii) If any service roads, culverts, bridges etc. are to be built, the contractor shall build the same at his own cost, including ramps for transporting earth to make embankment. All the service roads are to be maintained by the contractor at his own cost. No separate payment for such works shall be made.(ix) Payment of this item will be made as per finished and approved cross section measurement only after necessary compaction and all necessary testing for compaction in layers to be done by the contractor upto the satisfaction of engineer-in-charge. Lead, if applicable, will be measured based on c.g. of earth moved only after compaction.(x) Before quoting the rate, the contractor should inspect the site to assess the lead, site condition etc.(xi) Spacing of trolley refuges should be as per RDSO's Guideline (latest) / instruction of site engineer, if site condition such warrants from safety point of view.(xii) Before the work is started, the whole area between the toes of the bank or top of cutting, shall be properly cleared by the contractor of all Trees, Roots, Heavy grass and all obstructions. No extra payment will be made for such work. All trees of girth (perimeter) more than 12 inch at 1 meter above the bottom shall be the property of the Railway and the contractor shall, after uprooting, deposit the same to Railway. Before cutting trees, necessary permission required from the forest department or any other appropriate authority, shall be taken by the contractor on the basis of Railway's recommendatory letter.(xiii) Before beginning of work at site, contractor shall engage one surveyor for checking and fixing of centreline/alignment of track accurately by using T.S. m/c and also check demarcation of Railway land boundary with the help of local Amin in presence of Railway officials. For this work hiring charges of Amin shall be made against item no.- 5 of Sch.- A-III. Approved/certified land plan to be supplied by E.Railway.(xiv) All necessary reference pillar/ toe pillar are to be fixed by the contractor as per latest RDSO guideline at his own cost. No extra payment will be made for this work. It is the responsibility of the contractor to preserve the said pillars till completion of work.(xv) Above item is to be executed in the location as mention in the 'name of work'. However, if required , this item may also be operated in any location between MYPR(Ch.- 23200 m from VSU / Ch.- 59370 m F/TAK)or to Gopinathpur(Ch.-32115 m from VSU / Ch.- 50455 m F/TAK) & Baragopinathpur(Ch.- 30781 m F/VSU / Ch.- 51790 m F/TAK at Bankura</p>	No	No	Not Allowed
---	---	----	----	-------------

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

2	<p>Following clauses are included additional in special terms & conditions without any extra payment:- 1) The contractor shall establish a well equipped field laboratory for testing of soil, cement, fine & coarse aggregates, concrete etc. 2)The agency has to set up a site office (with adequate toilet) for Railway officers and inspectors at suitable location and maintain the same during the currency of contract. The site office will be provided with the following :- a) Two nos. executive tables, b) Two nos. executive chairs, c) Six nos. visitor chairs, d) One no. steel almirah, e) One no. steel rack, f) One no. aquaguard, g) Three fans and lighting arrangements. (The above furniture and equipments will be taken back by the contractor after the work is over) 3) The contractor shall provide two latest configuration computers with Hp Laser tank printers, scanner and router/modem with operator at site office as well as Dy.CE/CON/I/HWH's office with loaded Auto cad, MS office(latest version), licensed version antivirus and internet and WiFi facilities so as to make proper communication during currency of contract. 4) The agency shall arrange 02 nos. good condition four wheeler vehicle like Tata Sumo, Bolero or similar type with driver & fuel for movement of Railway officials from Bishnupur & Arambagh to work site and also for site inspection during currency of contract. 5) The contractor has to provide a digital camera for site photograph and basic safety equipments (like safety shoes, safety belts, safety vests, safety masks, safety glasses, face shield etc.) for site workers and Rly officials. 6)The agency has to keep two nos. error free and calibrated Auto level m/c with two nos. of 6m staff and one Total Station for levelling and suvey work along with a team of trained & experienced Engineers, surveyors & supervisors.</p>	No	No	Not Allowed
---	---	----	----	-------------

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1.Scanned copy [in PDF format] of the details regarding the Association of Railway Officer or s with the tender [for details please refer Annexure-1 of Ch-II of Tender document].	No	No	Allowed (Mandatory)
2	2. Scanned copy [in PDF format] of the details of the works awarded to the firm, during the last three years [(for details please refer Annexure-2 of Ch-II of Tender document].	No	No	Allowed (Mandatory)
3	3. Scanned copy [in PDF format] of the details of the List of the Arbitration & Court cases during the last 3 years [for details please refer Annexure-3 of Ch-II of Tender document].	No	No	Allowed (Mandatory)
4	4. Scanned copy [in PDF format] of the details of agency s own equipments proposed to be included [for details please refer Annexure-4[A] of Ch-II of Tender document].	No	No	Allowed (Mandatory)
5	5. Scanned copy [in PDF format] of the details of hired equipment's to be included [for details please refer Annexure-4[B] of Ch-II of Tender document].	No	No	Allowed (Mandatory)
6	6. Scanned copy [in PDF format] of the details of technical personals of the Agency, available in hand [for details please refer Annexure-5[A] of Ch-II of Tender document].	No	No	Allowed (Mandatory)
7	7. Scanned copy [in PDF format] of the details of technical personals, proposed to be engaged by agency [for details please refer Annexure-5[B] of Ch-II of Tender document].	No	No	Allowed (Mandatory)
8	8. Scanned copy (in PDF format) of the details of all documents of the firm required as per Cl. 7 of Ch II of Tender document).... Or Scanned copy (in PDF format)of the details of all documents of the JOINT VENTURE FIRM (JV Firm) required as per Cl.30 of Ch II of Tender document) Note- (Original copy of all the documents to be submitted to office of Chief Administrative Officer /Con/Eastern Railway, within the date & time of Tender closing, (mentioned in the N.I.T).	No	No	Allowed (Mandatory)
9	9. Scanned copy [in PDF format] of the complete address of the firm in PDF format, to which the all correspondences shall be made by the railway.	No	No	Allowed (Mandatory)
10	10. Scanned copy [in PDF format] of any other letters/documents etc. [If agency intends to submit].	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
-------	-------------	-----------------------	-----------------	---------------------

**ER-CAO-C-HQ-ENGG/EASTERN RLY
TENDER DOCUMENT**

Tender No: 2WTCAOCER2020-21

Closing Date/Time: 05/04/2021 15:00

1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed
2	2. I/We have read the tender Notice [NIT] detail, Tender document along with all the conditions attached/referred to, in this tender document, and agree to abide by the said conditions.	No	No	Not Allowed
3	3. I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract [GCC], with all correction slips up-to-date and to carry out the work according to the Special Conditions of Contract and specifications of materials and works as laid down by Railway as mentioned in the Special Conditions/ Specifications.	No	No	Not Allowed
4	4. It is certified that I am the authorised person to represent the firm and I am authorised to sign the tender and all the documents on behalf of the firm.	No	No	Not Allowed
5	5. It is certified that all the statement and document submitted with the offer are true and correct.	No	No	Not Allowed
6	6. It is certified that we are aware of the fact that this tender offer is made in the full understanding that our offer will be subjected to verification of all the information submitted with this tender.	No	No	Not Allowed
7	7. We are aware of the fact that the railway reserve the rights to amend the scope and value of the contract and to reject [or accept] this offer without assigning any financial liability.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	ANNEXTENDERDOCUMENT02WTCAOCER2020-21-converted1.pdf	ANNEX TENDER DOCUMENT

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: MADAN KUMAR HUI

Designation : DEN/Con/PRD