

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

**Chief Administrative Officer/Con/Eastern Railway** acting for and on behalf of The President of India invites E-Tenders against Tender No 02WTCAOCER2021-22 Closing Date/Time 11/03/2022 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**

<b>Name of Work</b>	Earth work in filling for construction of railway embankment, blanketing over formation, turfing, construction of Retaining wall, Major/Minor bridges, RUBs, drain, approach road etc. from Ch.- 26000 to Ch.- 27370 m and Ch.- 28485 to Ch.- 42620 m (from Bishnupur) including Baragopinathpur (Ch.- 30780, Jayrambati (Ch.- 37820) and Kamarpukur station (Ch.- 43070), platform, PF shed, FOB, piling, LC gate, height gauge, station building and other ancillary works between Maynapur (Ch.- 23200) to Goghat (Ch.- 48570) with Linking of P.Way track and other ancillary p.way related work including laying of points and crossing etc. in between Maynapur (including Yard) and Goghat (Including Yard ) over Bankura & Hooghly District in connection with the construction of New B.G. rail line from Tarakeswar to Bishnupur.		
<b>Bidding type</b>	Two Stage Reverse Auction		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	11/03/2022 15:00	<b>Date Time Of Uploading Tender</b>	07/02/2022 13:01
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	1896435263.97	<b>Tendering Section</b>	PRD/CON/ER
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	9632200.00	<b>Validity of Offer ( Days)</b>	60
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	24 Months
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	25/02/2022	<b>Are Joint Venture (JV) firms allowed to bid</b>	Yes
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)
<b>Auto Elimination rules applicable</b>	Yes	<b>Minimum Decrement (%)</b>	.2
<b>Initial Cooling Off Period (HH:MM)</b>	04:00	<b>Subsequent Cooling Off Period (HH:MM)</b>	00:30

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 001-SCHEDULE A-I</b>							473900000.00	Above/ Below/Par
1	Please see Item Breakup for details.				473900000.00	AT Par	473900000.00	
<b>Description:- SCHEDULE A-I</b>								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 002-SCHEDULE A-II</b>							20409400.00	Above/ Below/Par
2	Please see Item Breakup for details.				20409400.00	AT Par	20409400.00	
<b>Description:- SCHEDULE A-II</b>								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 003-SCHEDULE A-III</b>							188007250.00	Above/ Below/Par
3	Please see Item Breakup for details.				188007250.00	AT Par	188007250.00	
<b>Description:- SCHEDULE A-III</b>								

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 004-SCHEDULE A-IV							73570345.00	Above/ Below/Par
4	Please see Item Breakup for details.				73570345.00	AT Par	73570345.00	
<b>Description:-</b> SCHEDULE A-IV								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 005-SCHEDULE A-V							73405245.80	Above/ Below/Par
5	Please see Item Breakup for details.				73405245.80	AT Par	73405245.80	
<b>Description:-</b> SCHEDULE A-V								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 006-SCHEDULE A-VI							138834256.00	Above/ Below/Par
6	Please see Item Breakup for details.				138834256.00	AT Par	138834256.00	
<b>Description:-</b> SCHEDULE A-VI								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 007-SCHEDULE A-VII							24012000.00	Above/ Below/Par
7	Please see Item Breakup for details.				24012000.00	AT Par	24012000.00	
<b>Description:-</b> SCHEDULE A-VII								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 008-SCHEDULE B-I(A)							38742471.02	Above/ Below/Par
8	Please see Item Breakup for details.				25828314.01	50.00	38742471.02	
<b>Description:-</b> SCHEDULE B-I(A)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 009-SCHEDULE B-I(B)							2407689.31	Above/ Below/Par
9	Please see Item Breakup for details.				1065349.25	126.00	2407689.31	
<b>Description:-</b> SCHEDULE B-I(B)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 010-SCHEDULE B-I(C)							148774559.65	Above/ Below/Par
10	Please see Item Breakup for details.				84530999.80	76.00	148774559.65	
<b>Description:-</b> SCHEDULE B-I(C)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 011-SCHEDULE B-I(D)							143048164.96	Above/ Below/Par
11	Please see Item Breakup for details.				113530289.65	26.00	143048164.96	
<b>Description:-</b> SCHEDULE B-I(D)								

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 012-SCHEDULE B-I(E)							22713379.75	Above/ Below/Par
12	Please see Item Breakup for details.				20100336.06	13.00	22713379.75	
<b>Description:-</b> SCHEDULE B-I(E)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 013-SCHEDULE B-I(F)							36355422.40	Above/ Below/Par
13	Please see Item Breakup for details.				23156320.00	57.00	36355422.40	
<b>Description:-</b> SCHEDULE B-I(F)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 014-SCHEDULE B-I(G)							972463.62	Above/ Below/Par
14	Please see Item Breakup for details.				771796.52	26.00	972463.62	
<b>Description:-</b> SCHEDULE B-I(G)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 015-SCHEDULE B-I(H)							43303616.46	Above/ Below/Par
15	Please see Item Breakup for details.				24191964.50	79.00	43303616.46	
<b>Description:-</b> SCHEDULE B-I(H)								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 016-SCHEDULE B-II(WORKS)							4960000.00	Above/ Below/Par
16	Lump Sum				4000000.00	24.00	4960000.00	
<b>Description :-</b> Overall percentage increase/ decrease over the rates of Eastern Railway Unified Standard Schedule of Rates (Works & Materials) 2011 for that items which are not included in Schedule -B-II.								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 017-SCHEDULE B-II(P.WAY)							8780000.00	Above/ Below/Par
17	Lump Sum				2000000.00	339.00	8780000.00	
<b>Description :-</b> Basic Cost of Schedule-B (P-Way) vide Schedule -1987								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 018-SCHEDULE C-I							139771000.00	Above/ Below/Par
18	Please see Item Breakup for details.				139771000.00	AT Par	139771000.00	
<b>Description:-</b> SCHEDULE C-I								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule</b> 019-SCHEDULE C-II							314468000.00	Above/ Below/Par
19	Please see Item Breakup for details.				314468000.00	AT Par	314468000.00	
<b>Description:-</b> SCHEDULE C-II								

**3. ITEM BREAKUP**

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

**Tender No:** 02WTCAOCER2021-22

**Closing Date/Time:** 11/03/2022 15:00

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<b>Schedule</b>	Schedule 001-SCHEDULE A-I					
<b>Item- 1</b>	SCHEDULE A-I					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

1	001	<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 4 of Schedule-'A-II'. 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 &amp; other incidental charges complete in all respect. 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 &amp; 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 &amp; 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 &amp; 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 followed to the latest RDSO Guide line. Tests shall be done by contractor's own cost. Note (vi) to (xvi) as given in Special Condition Sl. No. 1 &amp; 1.1 of NIT.</p>	10 cum	1750000.00	2708.00	473900000.00
					<b>Total</b>	<b>473900000.00</b>

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

Schedule 002-SCHEDULE A-II						
Item- 2 SCHEDULE A-II						
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 &amp; 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 ) to Jairambati(Ch.- 44751 from VSU / Ch.- 37820 m from TAK) upto Ch.- Goghat (Ch.- 48570/39550) over district Bankura &amp; Hooghly , 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	11000.00	537.00	590700.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 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 4 of Schedule-'A-II'. Notes: for item no. 2, 3 (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 &amp; 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 &amp; 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 &amp; 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 followed to the latest RDSO Guide line. Tests shall be done by contractor's own cost. Note (vi) to (xvi) as given in Special Condition Sl. No. 1 &amp; 1.1 of NIT. With usable earth obtained from cut spoil vide item 1 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	11000.00	333.00	366300.00
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**ER-CAO-C-HQ-ENGG/EASTERN RLY  
TENDER DOCUMENT**

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

3	003	Extra over item 2(a) for each additional lead of 800 m or part over initial lead (800m+100m) as per site conditions. (Specification same as item no. 002 of this schedule)	10 cum	11000.00	184.00	202400.00
4	004	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 ) to Jairambati(Ch.- 44751 from VSU / Ch.- 37820 m from TAK) upto Ch.- Goghat (Ch.- 48570/39550) over district Bankura & Hooghly , W.B. as per instruction of Engineer-in-charge.	10 cum	1750000.00	110.00	19250000.00
					<b>Total</b>	<b>20409400.00</b>
<b>Schedule</b>	Schedule 003-SCHEDULE A-III					
<b>Item- 3</b>	SCHEDULE A-III					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 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 &amp; compaction.</p> <p>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. 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 Maynapur to goghat over district Bankuraand Hooghly 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	131750.00	1427.00	188007250.00
					<b>Total</b>	<b>188007250.00</b>
<b>Schedule</b>	Schedule 004-SCHEDULE A-IV					
<b>Item- 4</b>	SCHEDULE A-IV					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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Closing Date/Time: 11/03/2022 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	390000.00	878.00	3424200.00
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	500.00	185.00	92500.00
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	250.00	333.00	83250.00
4	004	Supply of labour (helpers) for assistance to Railway inspector (s)/officers during inspection, supervision and measurement of field work etc as per instruction of engineer-in-charge or his representative. For safety related works, competency will be ensured by the inspector concerned. Rate includes a full set of First Aid Box must be keep at worksite by the contractor.	Each	3000.00	491.00	1473000.00
5	005	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 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	35000.00	953.00	33355000.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

6	006	Making of reinforcement of any dia. including cutting, bending ,binding and placing with the supply of 18SWG/1.2192 mm galvanised binding wire as per approved drawing and IS : 2502 - 1963. This item to be operated against RCC items under ER/USSOR-2011	MT	3000.00	6208.00	18624000.00
7	007	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	500.00	178.00	89000.00
8	008	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	5000.00	12.00	60000.00
9	009	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.- 118, 119 of Sch.- B-I(A) or any other similar Items.	cum	15000.00	30.00	450000.00
10	010	Empty boaring measured from working platform level to cut off level for 1200 mm dia bored piles for which guide casing may be required for driving and withdrawal and casting complete in all respect. No extra payment shall be made for this gide casing or temporarily liner upto cut off level which shall be removed by the contractor before braking of piles above cut off level.	Metre	250.00	1803.00	450750.00
11	011	Empty boaring measured from working platform level to cut off level for 500 mm dia bored piles for which guide casing may be required for driving and withdrawal and casting complete in all respect. No extra payment shall be made for this gide casing or temporarily liner upto cut off level which shall be removed by the contractor before braking of piles above cut off level.	Metre	250.00	532.00	133000.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

12	012	Pulse Echo test [PET] for integrity tet on casting in sit boarded pile of 500/1200 or others mm dia bored piles with contractors men, materials, machineries etc. The rate includes the cost of inspection of site surface preparation of pile head [by application of strong sand, cement mortar/any other approved method, for which. No extra payment will be made] including required men, machineries, materials and any other unforeseen cost required for the test. Test report to be submitted in four copies in booklet form. The work should be completed in all respect as per satisfaction of Railway's Engineer Incharge at working site. Note :: The test report of the above to be submitted in four copies in booklet form.	Each	70.00	2120.00	148400.00
13	013	Supplying, Manufacturing, Welding, Fixing / driving 6 / 8 mm thick M/S permanent Liner for piles as per approved drawing / instruction. The rate shall include cot of liner plate, or labour, equipment required for manufacturing, welding and fixing and all other incidental charge to complete the works as directed by Engineer - In - Charge. If any deformation occurred at the time of driving of liner, that deformed liner should be withdrawal by the contractor at his own cost. Note :: [ i] The driving charge is included in the assess rate. [ ii] No payment of liner will be made for liner used between cut of level & working platform level. [iii] This item to be operated only a pacific written approval of Engineer - In - Charge.	MT	125.00	97235.00	12154375.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

14	014	Supplying, fittings, fixing and erection of colour coated trapezoidal sheet/Eave Gutter/Ridge etc. on truss of platform shed of LYSAGHT TRIMDEK of TATA BlueScope or DURAKOLOR of EXODUS Ispat/LLOYDECK of Lloyd Insulations (India) Ltd. or similar nominal 28 mm deep ribs. The end ribs shall be design for anti capillary action, to avoid any seepage of water through the lateral overlap. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (BMT), Hi-Tensile steel with minimum 550 Mpa yield strength, metallic hot dip coated with aluminium zinc alloy as per AS-1397-AZ 150 (minimum 150 gram per sq m total on both sides) with High durable quality paint coat conforming to AS/NZS 2728/IS-14246 Type-3. The paint shall have total coating thickness of nominal 35 micron, comprising of nominal 20 micron exterior coat on top surface and nominal 5 micron reverse coat on back surface over nominal 5 micron primer coat on both surfaces of approved colour shade by concern authority. The steel manufacturer's test certificate for the chemical and mechanical properties of steel must be submitted for approval by the concerned authority prior to installation. The steel sheet shall be fastened with nominal 40 micron zinc coated or nominal 25 micron zinc-tin alloy coated, Hex head self-drilling screw as per AS 2566-2002 class 3 fasteners of approved make (Buildex or equivalent) with EPDM washer as per the requirement considering the profile shape and design load. The fastener size shall be calculated as per the design or manufacturers recommendations. The profile sheet, fastener size etc. shall be approved by the concern authority. All the accessories like gutter/flashing/capping shall be made from the same material which is used for main cladding application. The measurement shall be based on finished/covered surface area. The installation shall be done by specialized agency or approved by the engineer-in-charge. Manufacturer's recommended installation methodology shall be adopted for installation. The contractor is to take approval on the sheet profile, design and installation methodology before installation of the sheets from the concern authorities. The installation includes profiled sheet, capping, trims, flashing, gutter and all type of accessories considered for the installation. SHEET For Shed	Sqm	1200.00	1264.00	1516800.00
15	015	EAVE GUTTER 900mm width (approx) or any approved size width. (Specification same as item no. 014 of this schedule)	Metre	900.00	862.00	775800.00
16	016	RIDGE shall be 700 mm width (approx) or of any approved size width. (Specification same as item no. 014 of this schedule)	Metre	400.00	738.00	295200.00
17	017	Extra rate for curving the sheet (Specification same as item no. 014 of this schedule)	Sqm	250.00	115.00	28750.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

18	018	Construction of earthen cofferdam as per site conditions, approved drawing and direction of Engineer-in-charge as and where required. The work includes collection of earth from out side RLY land or sand bags at contractor's cost including royalty, taxes, if any, carrying to site with all lead & lift, laying at the bed of waterway and adjacent to bridge as per approved drawing including light tamping, rolling with contractor's plate vibrator to make the cofferdam water tight, cutting and removing the earth and all materials of the cofferdam to clear waterway after completion of work and placing the same over the toe of the adjacent bank with contractors own labour & transportation etc. The rate also includes the wooden/Bamboo piles and drum sheeting if required to make coffer dam water tight. Note: This item is to be operated exclusively for bridge works/platform/Retaining Wall if required and after approval of Engineer in charge.	10 cum	600.00	1197.00	71820.00
19	019	Supplying, laying and fixing acid proof tiles 20mm thick in JONSHON MADE for floor/walls, joints, with acid proof cement solution in required thickness and other compound [if necessary] including making of base by CC 1:2:4 25mm th in floor with stone chips 6mm to 12mm and 13mm th plaster of CM 1:3 in wall as per standard practice completed in all respect with all labours and materials, lead, lift, crossing of track etc as per direction of Engineer at site. Except supply of gray cement which will be paid separately through Sch-'C-I'.	Sqm	100.00	3351.00	335100.00
20	020	Painting with acid proof paint two coats on wall with contractors labour and material complete in all respects.	Sqm	100.00	94.00	9400.00
					<b>Total</b>	<b>73570345.00</b>
<b>Schedule</b>	Schedule 005-SCHEDULE A-V					
<b>Item- 5</b>	SCHEDULE A-V					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	001	Supplying, fitting, fixing of digital printed Flex cloth banner including Printing of any shade by marking Drawing as per matter & fixing on the wooden frame or existing massonary structure complete in all respect.	cum	25.00	862.00	21550.00
2	002	Supply, fitting, fixing of MS Square hollow bar structure for fixing of printed flex complete with screw rivet carrying load lift etc.	Sqm	35.00	341.00	11935.00
3	003	Supplying, fitting, fixing of Retro Reflective as per ASTMD 4956 standard high density Retro Reflecting sheeting on 2 mm thick aluminium alloy sheet conforming to IS-737 as backing materials for making Engineering indicator as per IRPWM & station name board etc. The rate includes cost of all items includes cost of transportation. Note: This item to be operated on specific written instruction of site engineer about location and quantity.	Sqm	35.00	10184.00	356440.00
4	004	Supplying, fitting, & fixing signages made by ACP including pasting of Vinyl Cutting/printing on the same to be fitted with necessary fixing arrangement including screw, lead lift etc complete in all respect.	Sqm	25.00	4184.00	104600.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

5	005	Supply fitting fixing glow sign board of single facing with provision of flex at front with necessary printing as required. The item will be fixed on the box of GI sheet 24 gauges and open able at front including inside electrical connection tube light etc. complete in all respect.	Sqm	25.00	4212.00	105300.00
6	006	Dismantling of Level Crossing Gate with all accessories with out damaging any parts as per site Engineer.	Each	0.50	2680.00	1340.00
7	007	Supply of lifting barrier, L.C. Gate complete including pedestal, Winch Machine, stop Post and Boom of 8.00M long as per RDSO Drg.No. SA-8843-46 & SA-8843A-46A (ADV), SA-8839-42 & SA_8839A-42A(ADV), SA-8157A (ADV). Material to be procured from approved list of firm for manufacturer & supply of Mechanical Signaling Item Inspection Consignee.	Set	1.00	166344.00	166344.00
8	008	Supply of complete operating and transmission system of L.C Gate right from winch machine to L.C Gate. This item include supply of all the material required like foundation, cranks, joints, wires, wire insulators, wheels, arc lever etc. by contractor. Inspection: consignee & materials to be procured from original manufacturer or dealer.	Set	1.00	104804.00	104804.00
9	009	Installation of lifting barrier gate complete along with casting concreting, curing of foundations (Mixture of cement, sand and stone chips size - 20 with 1:3:6) and installation of lifting barrier, ARC lever, winch machine, pedestal, cranks, compensators, "A" Type foundation, stop post, "B" Type foundation, diversion wheel including positive boom locking. This also includes rod run complete with forge vending for solid joint, flush, joint, screw joint lug joint & wire run complete, fixing of "E" Type lock, rod insulator wire insulator as per standard practice of Eastern Railway for level crossing gates and as per instruction of Site Engineer. All material fixing and concrete foundation including nuts & bolts of different sizes are to be supplied by the Contractor. This includes testing and commissioning of level crossing gates. Note: All Nuts & Bolts should be galvanized including Bolts used in foundations. Inspection: By Consignee. Payment for E/Work in excavation in foundation shall be made in separate items Note : One set means two nos. of lifting barrier for one gate.	Set	1.00	83822.80	83822.80
10	010	Supplying, fitting & fixing boom locking devices in L.C. gate to be operated by hand lever fixed in position with cement concrete foundation including supplying & fixing of holding down bolts. The boom locking device shall be made of followings:- i) M.S. bracket duly fabricated. ii) Arch lever. iii) Flexible wire ropes of 6mm dia. iv) Pulleys, vertical & horizontal wheels. v) Fire adjusting screws, themble, sleeves, nuts & bolts as required. The rate should include two coats of oil painting and oiling. All materials shall be supplied by the contractor. (Payment for earthwork in excavation and cement concrete in foundation shall be made in separately under relevant item.	Set	1.00	41740.00	41740.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

11	011	Sand blasting and metalizing the steel components of FOB with aluminium wire as per IRS-B1-2001 including applying one coat of wash primer IS : 5666 & followed by one coat of zinc chromate primer IS : 104 and two coats of aluminium paints IS : 2339 ( one coat should be applied after applying & drying of zinc chromate primer IS : 104 and 2nd coat of aluminium paint should be applied after erection including riveting/bolting complete in all respect). The rivet heads and bolt's heads & nuts is to be painted with one coat zinc chromate primer IS : 104 followed by one coat with zinc chromate red oxide IS : 2074 before applying aluminium paints. During sand blasting surfaces should be thoroughly cleaned, free from grease, rust, scale or any other foreign material and roughened by compressed air with suitable abrasive material and grade of blasting shall conform to IS : 9954. The metal spraying of Aluminium shall be carried out as per IS : 6568. The chemical composition of aluminium to be spread shall be in accordance with IS : 2590. The surface of the sprayed coating shall be uniform texture free from lumps coarse areas and loosely adherent particles . The minimum thickness of the spread aluminium coating shall be 150 micron. Cumulative thickness of metalizing and painting is to be measured with an Elcometer digital type/magnetic blankly type as per choice of Engineer-in-charge which will be supplied to Railway free of cost before starting of work. All paints and aluminium wire to be tested from NABL approved laboratory. The rate includes the cost of all labours, materials tools & plants, consumable materials etc.	Sqm	3000.00	960.00	2880000.00
12	012	De- assembling and dismantling of existing fabricated steel structures like P.F. shed etc from Railway premises with or without traffic and power block as per approved scheme. The rate includes cost of labour, tools and tackles, consumable materials, staging, stacking of dismantled materials at a specified place as per instruction of the Railway representative. The unused /scrap materials shall be transported to belur scrap yard the payment of which will paid under relevant item in Sch B.	MT	5.00	11454.00	57270.00



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

13	013	Manufacturing and supplying of sheet piles of Z / U profile with 10mm thickness having the following properties Minimum yield strength 355 Mpa, Ultimate Tensile Stress 400Mpa. Sectional Modulus 2050 M3 including all types of taxes, loading at source transportation and delivered and unloading Railway working site and also stacking the same as per direction of Engineer - In - Charge. Rate for supplying of sheet pile includes all type of taxes and labour component. Manufacturing of steel sheet piles includes corner sheet piles, splicing of joints with parent material at site and welding at site should be done by RDSO approved welders only. (a) Steel should conform to IS-2062 -2006, Gr. B fully killed & fully normalized. All the steel materials required for fabrication shall be procured from integrated steel manufacturer as given in the tender document. (b) The Contractor will observe safety as per IS-1179, IS-3016. (c) The rate shall include all the inspection cost & testing required by the inspection authority as per guideline given below: (i) Inspection prior to welding includes parent metal, edge preparation, operators qualifications, WPSS, micro etching test etc. (ii) Inspection during welding includes filler materials dimensional checks, non-destructive tests such as Radio-graphic tests (if required) dye-penetration test and other suitable non-destructive tests & any other tests as per IS Codes and IRS Welded Bridge Code. (e) The fabrication is to be done in workshop only with approved WPSS. The workshop shall be equipped with all required tools, plants, machineries etc. The engineer-in-charge before commencement of the fabrication work shall approve fabrication site. (f) The contractor may avail 50% payment of the accepted rates after bringing the steel materials at fabrication site against BG Bond of equivalent amount after producing relevant papers of procurement, challans etc. to the satisfaction of Engineer-in-Charge. Further 40% of the accepted rates may be released after passing the fabrication / Inspecting agency and bringing to site. Total amount of BG Bond will be released after passing & driving by the agency' Balance 10% payment will be made after completion of this item in all respect. (g) The rate of driving /installation of sheet pile will be paid for the actual length of sheet pile installed /drived in the ground on prorata basis s per the approved drawing. The drawing will be prepared separately and will be approved by Railways. (h) Sheet pile shall remain permanent in position and will not be taken out.	MT	600.00	82639.00	49583400.00
14	014	Installation of sheet piles including all types of taxes, all activites of mobilization of equipment, manpower, consumable, demobilizations, welding of sheet piles, all other auxiliary processes to facilitate sheet pile driving as per the direction of engineer in charge. Sheet pile driving length is 9.0M welding at site should be done by RDSO approved welders only. SPL NOTE: 1)The payment for driving of sheet pile will be made as per actual work carried out at site as per approved drawing by competent authority on pro-rata basis. 2)The rates given for this item for driving of sheet pile are to be left permanently in position.	Running Metre	300.00	66289.00	19886700.00
					<b>Total</b>	<b>73405245.80</b>
<b>Schedule</b>	Schedule 006-SCHEDULE A-VI					
<b>Item- 6</b>	SCHEDULE A-VI					

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	001	Linking of B.G. track with New/second hand single rail/3-rail /10-rail/20-rail panel with standard fittings and fastening to make standard B.G. track as per IRPWM with/without traffic block. 90R/52kg/60kg rail on PSC sleepers with sleeper density upto 1660 nos. per K.M Note :- The work includes : i) Collecting spreading of P.Way materials with a free lead of 100m with all lifts and crossing of track obstructions if any ii) Dekinking of rails with Jim crow if required. iii) Pairing and butting of rails/panel iv) Squaring of rail joints and cutting of rail if required v) Sleepers squaring, gauging, levelling, boxing and dressing of ballast as per IRPWM within tolerance. vi) Painting of sleeper spacing on rail webs on each sleepers and numbering of sleepers on every 5th sleeper vii) Cleaning and greasing of rail joints, fish plates, nuts, bolts, pandrol clips, inserts, etc. viii) The cutting and drilling holes will be paid separately against Sch B-I. ix) Cutting of roads upto the required depth for linking of level crossing. x) One round initial packing of track to make track fit for 20 Kmph speed. xi) Only 50% payment will be made for completing the linking work in GOGT-KMPKR section which is done by other agency previously. Such type work is about 6.30Km.	Track metre	30000.00	297.00	8910000.00
2	002	Linking of B.G. track with New/second hand single rail/3-rail /10-rail/20-rail panel with standard fittings and fastening to make standard B.G. track as per IRPWM 60kg/52kg/90R rail on PSC sleeper with sleeper density upto 1540 nos. per K.M . (Specification as per item no. 001)	Track metre	1000.00	237.00	237000.00
3	003	Assembling and inserting of 52kg/60kg/90R points and crossing & other elements without Block Protection. 1 in 12 assembly on concrete sleeper for BG. Note : The work includes :- i) Assembling of points and crossing as per IRPWM with all fittings and fastenings within a free lead of 100m with all leads, lift, crossing track etc. ii) One round of initial packing to make track fit for 20 Kmph speed. iii) Gauging, levelling, boxing and dressing of ballast as per standard profiled specification (IRPWM). iv) Marking of sleeper numbers and positions with white paint on black base. v) Insertion of insulated gauge tie plates, stretcher bars etc with proper opening and setting. vi) The work includes cutting of rails by rail cutting machine to the required length and drilling holes on rail web including chamfering the hole edges in existing track or new track required for assembling and insertion of track elements so as to achieve machined joints as specified in the drawing. vii) Cleaning and greasing of joints, pandrol clips, inserts, nuts, bolts etc. viii) Fixing of rubber pad with adhesive. ix) Glued joint shall be supplied by the Railway and payment shall be made under item 2e).	Set	28.00	30464.00	852992.00
4	004	Assembling and inserting of 52kg/60kg/90R points and crossing & other elements without Block Protection. 1 in 8 1/2 assembly on concrete sleepers for BG. (Specification as per item no. 003)	Set	1.00	26286.00	26286.00
5	005	Assembling and inserting of 52kg/60kg/90R points and crossing & other elements without Block Protection. Derailing/ Trap switch on wooden/ concrete sleepers for BG. (Specification as per item no. 003)	Set	6.00	5006.00	30036.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

6	006	Assembling and inserting of 52kg/60kg/90R points and crossing & other elements without Block Protection. SEJ on concrete sleepers for BG. (Specification as per item no. 003)	Set	36.00	3412.00	122832.00
7	007	Assembling and inserting of 52kg/60kg/90R points and crossing & other elements without Block Protection. Glued Joint (Specification as per item no. 003)	Set	100.00	634.00	63400.00
8	008	Assembling and inserting of 52kg/60kg/90R points and crossing & other elements with block protection Under Traffic Block. 1 in 12 assembly on concrete sleeper for BG. Note : The work includes :- i) Assembling of points and crossing as per IRPWM with all fittings and fastenings within a free lead of 100m with all leads, lift, crossing track etc. ii) One round of initial packing to make track fit for 20 Kmph speed. iii) Gauging, levelling, boxing and dressing of ballast as per standard profiled specification (IRPWM). iv) Marking of sleeper numbers and positions with white paint on black base. v) Insertion of insulated gauge tie plates, stretcher bars etc with proper opening and setting. vi) The work includes cutting of rails by rail cutting machine to the required length and drilling holes on rail web including chamfering the hole edges in existing track or new track required for assembling and insertion of track elements so as to achieve machined joints as specified in the drawing. vii) Cleaning and greasing of joints, pandrol clips, inserts, nuts, bolts etc. viii) Fixing of rubber pad with adhesive. ix) Glued joint shall be supplied by the Railway and payment of insertion shall be made separately.	Set	4.00	36165.00	144660.00
9	009	1 in 8 1/2 assembly on concrete sleepers for BG. (Specification as per item no. 008)	Set	1.00	29585.00	29585.00
10	010	Derailing/ Trap switch on wooden/ concrete sleepers for BG. (Specification as per item no. 008)	Set	1.00	8645.00	8645.00
11	011	SEJ on concrete sleepers for BG. (Specification as per item no. 008)	Set	2.00	3500.00	7000.00
12	012	Glued Joint (Specification as per item no. 008)	Set	100.00	962.00	96200.00
13	013	Dismantling of existing 60Kg/52kg/90R or any other Rail section etc. track on any type of sleepers and other track elements to be done under traffic block. Standard BG track Note :- The work includes : i) Opening /removing of all fittings and fastenings. ii) Classification segregation and stacking of release materials at safe distance within free lead of 100m with all leads, lifts and to be kept at site by the tenderer in his own custody in safe condition till proper disposal. iii) Cleaning and levelling of area below track after removal of track. iv) Release material to be safe guarded by the contractor in his own custody.	Track metre	2000.00	126.00	252000.00
14	014	1 in 12 assembly on wooden / concrete / steel layout (Specification as per item no. 013)	Set	1.00	8659.00	8659.00
15	015	1 in 8 1/2 assembly on wooden / concrete/ steel layout (Specification as per item no. 013)	Set	1.00	6795.00	6795.00
16	016	Derailing/Trap Switch on wooden / concrete / steel sleepers (Specification as per item no. 013)	Set	2.00	2485.00	4970.00
17	017	SEJ on wooden/concrete/steel layout (Specification as per item no. 013)	Set	2.00	2225.00	4450.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

18	018	Through packing of B.G. Track and other elements of track on any type of sleepers to specified tolerance as per IRPWM para 224 to complete the work in all respect. Standard BG track (Rate per round per sleeper). Note :- The work includes : i) After each round packing the track should be fit for specified speed as directed by Engineer-in-charge SEJ's are considered as ordinary track and Diamond crossing is equivalent to two 1 in 8.5 point & crossings. Provision of 02 (two) round packings are kept for maintenance period i.e. after opening of the track for traffic movement. iv) Engineer in-charge will give instruction in writing for round of packing to be done.	Per Sleeper	220000.00	32.00	7040000.00
19	019	1 in 12 points and crossing (Rate per round per set). (Specification as per item no. 018)	Set	128.00	6511.00	833408.00
20	020	1 in 8.5 points & X-ing (Rate per round per set). (Specification as per item no. 018)	Set	4.00	5486.00	21944.00
21	021	Derailing/Trap Switch (Rate per round per set). (Specification as per item no. 018)	Set	24.00	1346.00	32304.00
22	022	Unloading 52Kg/60Kg rail, sleeper and other p.way items from all type of wagons under block protection. Single rail NOTE:- i) After unloading the materials should be stacked if required within the free lead of 100M clearing all infringement of traffic. ii)During unloading no material should obstruct track and traffic movement. iii)The contractor shall engage sufficient men to do the work during block period as directed by site Engineer at day /night. iv)The contractor shall engage men to watch and ensure safty of men as well as railway traffic. v) Unloading may be done beyond the jurisdiction of this contract also if required by Railway. "vi) For unloading of 10/20 Rail panel following tools to be arranged by contractor himself for which no payment will be made. (a) Short chain 1m long 60 Nos. (b) Hook 120 Nos. (c) Bolts & nuts 120 Nos. (d) Wire rope 30m long x 40mm dia. = 4 Nos."	Metre	1000.00	8.00	8000.00
23	023	3 rail panel (Specification as per item no. 022)	Metre	100.00	8.00	800.00
24	024	10 / 20 rail panel (Specification as per item no. 022)	MT	4300.00	154.00	662200.00
25	025	Ordinary P.S.C sleeper (Specification as per item no. 022)	Numbers	3000.00	31.00	93000.00
26	026	Crossing of running track (Specification as per item no. 022)	MT	100.00	105.00	10500.00
27	027	Unloading 52Kg/60Kg rail, sleeper and other p.way items from all type of wagons without block protection. Single rail NOTE:- i) After unloading the materials should be stacked if required within the free lead of 100M clearing all infringement of traffic. ii)During unloading no material should obstruct track and traffic movement. iii)The contractor shall engage sufficient men to do the work during block period as directed by site Engineer at day /night. iv)The contractor shall engage men to watch and ensure safty of men as well as railway traffic. v) Unloading may be done beyond the jurisdiction of this contract also if required by Railway. "vi) For unloading of 10/20 Rail panel following tools to be arranged by contractor himself for which no payment will be made. (a) Short chain 1m long 60 Nos. (b) Hook 120 Nos. (c) Bolts & nuts 120 Nos. (d) Wire rope 30m long x 40mm dia. = 4 Nos."	Metre	500.00	10.00	5000.00
28	028	Ordinary P.S.C sleeper (Specification as per item no. 027)	Numbers	500.00	33.00	16500.00
29	029	P.S.C sleepers for points and crossing (Specification as per item no. 027)	Each	2000.00	52.00	104000.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

30	030	Unloading of stone ballast unloaded from any type of Railway wagons with/without traffic block at day/night. Note:- The rate includes - i) During and after unloading all heaps and infringements to traffic to be removed so that empty rake may draw out without any obstruction and detention. ii) Closing of door of unloaded wagons in proper conditions for safe running (after unloading). iii) During the unloading the contractor should employ watchman to ensure safety of men as well as traffic. iv) Sufficient lighting arrangements for night working & unloading should be done without detention of rake.	cum	94000.00	119.00	11186000.00
31	031	Spreading of ballast from the stacks already supplied by the site of existing track wagon / cess supply ballast upto a free lead of 300m complete in all respect the rate includes all lifts crossing of lines cost of labour, tools and plants and incidental charge etc.	cum	94000.00	61.00	5734000.00
32	032	Transportation of P.Way items by truck/tractor/trailor small fittings, rail, ordinary/special sleepers, switch, crossings, glued Joints and other P.Way fittings etc. Lead upto 25KM. Note:- i) Loading unloading and stacking with a free lead of 300M including lifting (ascend & descend), crossing of multiple tracks & road. ii) Rate shall include of Octry, tax etc. iii) Payment of transportation upto 25 KM will be paid against item no. (a) above, lead in excess of 25 KM upto 60 KM will be paid against item no. (b) above, lead in excess of 60 KM upto 200 KM will be paid against item no. (c) and only lead in excess of 200 KM will be paid against item (d). iv) Distance should be considered shortest distance as per Rly time table / road distance. v) All materials should be stacked (after unloading) properly. vi) Transportation may be done beyond the jurisdiction of this contract also.	MT-Km	545000.00	19.00	10355000.00
33	033	Lead more than 25 KM but less than / equal to 60 KM. (Specification as per item no. 032)	MT-Km	763000.00	16.00	12208000.00
34	034	Lead more than 60 KM but less than / equal to 200 KM. (Specification as per item no. 032)	MT-Km	3052000.00	6.00	18312000.00
35	035	Lead more than 200KM. (Specification as per item no. 032)	MT-Km	6540000.00	4.00	26160000.00
36	036	Stenciling of writing letters digits size between 50mm to 80mm on station no. and curve particulars on Web of rails approval white colour on ready mixed oil bound black primer base. Rate includes supply of labour and paints.	Each	100000.00	15.00	1500000.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

37	037	Supply of skilled and unskilled labour for welding of 52Kg / 60Kg rail panel by SKV process. The rate shall include cost of labour, petrol, kerosene oil, hydraulic oil for welding as per specification ,filling the welding jointing on top and sides as per AT Manual to obtain finish joint within prescribed tolerances. Under Traffic block Note:- i) Railway will provide weld portion, dry moulds. All equipment's, tools and plants have to be provided by contractor. ii) All skilled and unskilled labour to be provided by contractor and typical composition of skilled labour required is Welder - 1(one) ; Moulder -1(one) ; Hammerman -1(one) ; Aligner -1(one) ; Luter -1(one); Khalasi - 4(four). iii) Welding should be done as per procedure laid down in A T Manual. iv) For welding all works related to creating gap by cutting, drilling, deinking, pulling rails, levelling and aligning etc shall be done by the contractor. v) For welding railway will provide qualified welding supervisor for technical guidance. vi) Re-adjustment of sleepers including removal of joint sleepers. vii) Release P.Way materials will be deposited at JE/P.Way/Con/Store on any adjacent station as per instruction of Engineer-in-charge. viii) Welding portions and dry moulds will be supplied from JE/P.Way/ Con/BDC within Howrah/Sealdah Division. The contractor has to make his own arrangement for transporting the same to site.	Per Joint	100.00	1547.00	154700.00
38	038	Without block in track (Specification as per item no. 037)	Per Joint	2000.00	1279.00	2558000.00
39	039	Trolleying / leading P.Way items i.e. rails, sleepers upto 1KM by contractors dip lorry/dolly including lead upto 30mtrs. Crossing any nos. of tracks with or without block protection. 90R/52kg/60kg rail (upto 39 metre length)	Metre	100000.00	11.00	1100000.00
40	040	Ordinary/bridge/Level Crossing PSC sleepers	Each	25000.00	44.00	1100000.00
41	041	Special size concrete sleepers.	Each	3400.00	61.00	207400.00
42	042	Trolleying P.Way items i.e. rails, sleepers for every addl. 1/2 KM each or part thereof with or without block. 90R/52kg/60kg rail (upto 39 metre length)	Metre	500000.00	3.00	1500000.00
43	043	Trolleying P.Way items i.e. rails, sleepers for every addl. 1/2 KM each or part thereof with or without block. Ordinary concrete sleepers / L.C. sleepers / Bridge sleepers/ Spl Pts & X-ing Sleeper.	Each	40000.00	18.00	720000.00
44	044	Making track circuiting joint. The work includes, opening of joints, fixing the insulation and refixing. Without traffic block Note :- Including cutting and drilling holes in rails.	Each	10.00	386.00	3860.00
45	045	Making temporary water proof goomty of size 10' X 10' with bamboo framing and tarpaulin cover on roof and three side with dressed wooden/steel sleeper flooring for a period for a period for 10 to 15 days equipped with one table, three chair for staff working complete in all respect.	Each	30.00	6695.00	200850.00
46	046	Manufacturing, supplying and fixing of M.S. bracket for check rail and L bracket for 52Kg/60Kg. Running rail along with manufacturing, supplying and fixing of 25mm dia. Bolts and nuts as per T-11506, M.S. Bracket for 52Kg/60Kg running rail (as per sample available) with minor modification on top of bracket where a slope of the 1 in 2.75 will have to be provided so that it matches with fishing plate running rails and height of check rail will be same as running rail with proper gap. Note :- Main plate is 20mm thick and stiffener is 12mm thick M.S plate used should be conforming to I.S. 800 and 7452.	Each	200.00	1246.00	249200.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

47	047	Cutting, grinding and fixing of 52Kg/60Kg LC Check rail including all lead & transportation. The cutting and grinding has to be done alongwith the web of rails at a specified distance below the top table of the rails. The released foot of the rail should also be transported back and to be deposited to the SSE/ PW/Store as per direction of EIC at site. The work has to be completed as per approved drawing and sample available. Rail will be supplied by Railways free of cost.	Metre	132.00	410.00	54120.00
48	048	Drilling of capsule shape holes in rail web of size 40mm and 28mm.	Each	200.00	61.00	12200.00
49	049	Manufacturing, supplying and fixing M.S. Distance Block for 52Kg/60kg Check rail at L.C. gate as per RDSO drawing T-4785.	Track metre	200.00	196.00	39200.00
50	050	Pre-tamping and post tamping attention (together taken as one round of attention) to track for machine maintenance as per stipulations contained in Para-226(3) and 226(5) of IRPWM with/without block protection. "Note :- i) If only post tamping activities are done as in case of new track payment will be made 50% of the accepted rate (New track means track before opening of good/passenger or both traffic). ii) Points & crossings as per ETKM. iii) Agency shall transport the HS diesel to the machine-working site and filling shall also be done by agency. No separate payment shall be made for this."	Track metre	33000.00	14.00	462000.00
51	051	Lifting of BG track and other track element on any type of sleepers as per IRPWM para 224 to specified tolerance complete in all respect. Standard BG track upto 150mm. Note :- After lifting work track should be fit for 20 KMPH speed.	Track metre	36000.00	61.00	2196000.00
52	052	Points & crossings 1 in 12 (Specification as per item no. 051)	Set	32.00	5371.00	171872.00
53	053	Points & crossings 1 in 8.5 (Specification as per item no. 051)	Set	1.00	4662.00	4662.00
54	054	Painting of rail surface with one coat of ready mixed oil bound primer of approved quality including cleaning of surface to make it free from rust, grease, etc. The rate includes supply of paint by the contractor and complete in all respect.	Sqm	36000.00	19.00	684000.00
55	055	Painting with anti corrosive bituminous black paint conforming to IS:9862/158 in two coats over cleaned rail surface, elastic rail clips, metal liner, etc. The rate includes supply of paints, cleaning, surface preparation, all tools & plants, lead, lift by the contractor. NOTE: 1) Rate is for two coats and 50% payment for single coat painting.	Sqm	36000.00	41.00	1476000.00
56	056	Distressing of LWR track with/without traffic block within distressing temperature vide LWR manual - 1996 para 5.7 and as per instruction of Engineer-in-charge at site. The rate includes required tool & plants (roller also), cutting of rail in advance. Cutting the rail of extended position, closure within block period (if done in block). Contractor will not get any payment for idle labours, tools & plants etc. due to non-availability of distressing temp. and any other reason what-so-ever.	Track metre	31000.00	17.00	527000.00
57	057	Erection of creep post in SEJ/LWR per set including cutting and painting of rails as per direction of site Engineer.	Set	200.00	785.00	157000.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

58	058	Manufacturing, transporting and fixing of wooden distance piece in between platform wall and non-gauge side of running rails as per direction of Engineer -in-charge. The rate includes manufacturing of wooden piece of required size from the unserviceable wooden sleeper (sleeper will be supplied free of cost by Railway at Railways Depot). Painting the distance piece with white paints with all tools and plants and incidental charges etc. including supply of paints by the contractor and complete in all respect.	Each	200.00	2188.00	437600.00
59	059	Assisting of USFD teams during testing of welding joints etc. including suppliers of grease for testing.	Numbers	2100.00	19.00	39900.00
60	060	Supply of labours to work as trolleyman, gangman, flagman, helper, chowkidar etc for Railway work.	Each	10000.00	497.00	4970000.00
61	061	Trial assembly/staging of switches at convenient location outside of running track to facilitate S&T work.	Set	4.00	7264.00	29056.00
62	062	Spreading of Ordinary /Special PSC sleeper already transported/unloaded under in this schedule including further carriage and re handling as required for placing in the slope/along newly constructed bank at uniform spacing of 1660/1540/1340 nos. sleeper per KM as per direction of Engg. in charge NOTE :- Including all lead, descends, crossing of track and observance of necessary safety with contractor's labour, tools & plants and consumable etc. including loading/unloading complete job in block section.	Each	45000.00	43.00	1935000.00
63	063	Changing of GFN Liner in place of MS Liner in the running track for track circuiting including greasing of ERC, inside of MS insert stacking of release metal liner etc. Cost of changing GFN liner includes contractors own tools and plants supply of grease required for the work including all lead, lift ascend, descend and crossing of track. The work should be done by the close supervision of the Engineer-at-site.	Each	30000.00	3.00	90000.00
64	064	Shifting of materials such as rails of any section, wooden/CI/Steel/ concrete sleepers & all P.Way fittings etc. etc. to the new position including picking up & stacking as per direction of site-engineer within lead upto 60m with contractor's own labour, tools & plants, all lead, lift, ascend,descend, crossing of tracks upto the satisfaction of site-engineer.	MT	3000.00	248.00	744000.00
65	065	Fixing of railway guard rail on bridge sleeper including all labour in all, handling, cutting, drilling holes etc. complete in respects vide IRPWM para 275. On straight track as per standard drawing for guard rail on bridge	Running Metre	500.00	49.00	24500.00
66	066	On flared portion for guard on bridges including bending of rails to describe flare and bending down the rail ends as per the drawing and direction of in Charge at site including fixing of wooden gutkas. The rate includes both approaches of one bridge which means 1 set	Set	20.00	9332.00	186640.00
67	067	Making track circuit joint/block joint including cutting, drilling and fixing of insulated fibre in running lines with traffic block.	Each	10.00	391.00	3910.00
68	068	Rolling of ballast with suitable type of mechanical roller (10 tonne) to obtain a compact and level surface of ballast already spread in formation along the track alignment complete in all respect as per engineer at site.	Running Metre	1000.00	48.00	48000.00



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

69	069	Supplying, fabrication and fixing of in situ glued joint for 60/52 Kg rail as per RDSO drawing number T-5843/T-5361 during day/night and conforming to "Manual for glued insulated rail joint-1998" with latest correction slips issued by Ministry of Railways, RDSO lko and in accordance with the process sheet of Eastern Railways/PD/NGS dated 4/11/98 with supply of all fittings and accessories as follows- Note : - (i) One metre long fish plate as per RDSO standard drawing (ii) HTS bolts and Nuts (iii) Punched washers (iv) Insulated brushes (v) Insulating channels (vi) 10mm thick end post (vii) Araldite (viii) Hardener (ix) Glass cloth carrier (x) And fixture for cleaning and assembling excluding rail With 52kg/60kg rail	Each	500.00	16675.00	8337500.00
70	070	Slewing of track/realignment of curve to achieve specified alignment, guage, level etc. complete in all respect within/without traffic block. Slew upto 300 mm The work include i) One round of through packing after slewing to make the track fit for movement of traffic at a speed 30KMPH ii) Collecting and spreading of ballast as per new alignment	Track metre	8000.00	68.00	544000.00
71	071	Slew upto 600 mm (Specification as per item no. 070)	Track metre	5000.00	83.00	415000.00
72	072	Slew upto 1000 mm (Specification as per item no. 070)	Track metre	2000.00	97.00	194000.00
73	073	Casting/making of fouling mark (FM) block as per approved drawing and fixing it in yard complete in all respect.	Each	32.00	1762.00	56384.00
74	074	Levelling the undulations found due to movement of vehicles or otherwise and rolling to prepare even surface on top of formation with proper slope of both side of centre line of track before laying of track or spreading of ballast as directed by engineer in charge or his representative at site	Sqm	500.00	15.00	7500.00
75	075	Spacing/re-spacing of sleeper and putting additional sleeper/removal of additional sleeper in railway track to achieve required sleeper density including recoument of missing/worn out fittings, greasing etc. complete in all respect as per direction of engineer at site.	Each	500.00	42.00	21000.00
76	076	Dismantling of CC, RCC, B/W, stone set, BFS etc in cement of lime motor, above or below ground level, taking proper precaution to existing structure with all lead, lift, crossing of track, coaches, removal of dismantled debris outside or within railway land, as directed by engineer at site with all contractor's labour, tools and plants etc. to complete the job in all respect.	cum	200.00	1390.00	278000.00
77	077	Erection of boundary pillar from released SH/broken sleeper in CC 1:3:6 foundation having size 0.6m x 1.0m with two coat of synthetic enamel paints, ER lettering in 3 direction of size 300mm (sleeper will be supplied by railway within 30m of track side) with all materials, tools and plants leading, crossing of track observing track safety, accent and decent complete in all respect with full satisfaction of engineer at site.	Each	500.00	2212.00	1106000.00
78	078	300mm deep screening of track below bottom of sleeper. This includes opening of ballast, digging down below the sleeper screening and putting back the dame and including initial packing with screen ballast.	Track metre	500.00	313.00	156500.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

79	079	Earthwork in cutting in formation without cutting machine in yard for linking of track with proper precaution of existing cable etc. including compaction of cutting areas dressing, finishing to required slope as per approved drawing. The rate shall inclusive of all lead/lift/crossing of track etc. and dumping spoil outside railway land or in railway land upto a lead of 100m complete in all respect as per direction of E.I.C.	cum	500.00	195.00	97500.00
80	080	Supply of Hydra with labours, driver, fuel, other tools etc for shifting of any kinds of materials at constructing site quickly and easily to facilitate and expedite railway work as and when required by the railway on daily basis. Payment will be made on basis of actual working days at site.	Per Day	20.00	12837.00	256740.00
81	081	Supplying, manufacturing, fittings , fixing & setting of new insulated Stretcher bar at Points as per Railway Drg. with MS Brackets, Bolts & nuts 18 x70/90 mm size, insulated fibres, washers, cuttings, drillings , greasing, return back of released materials to Railway store etc. complete setting of switch in all respect as per Engineer at site.	Each	5.00	6328.00	31640.00
82	082	Supplying, manufacturing, fittings , fixing & setting of new MS insulated Gauge Tie Plate at Points as per Railway Drg. with MS Short plate for Motor Points, Bolts & nuts 18/25 x70/90 mm size, plate screws, insulated fibres, washers, spacing of sleepers, putting/replacement of sleepers, cuttings, drillings , greasing, return back of released materials to Railway store etc complete setting of switch in all respect as per Engineer at site.	Set	5.00	15162.00	75810.00
83	083	Loading of Rails and other P.Way items in any type of wagon including all lead and lift complete in all respect. Single Rail.	Metre	6000.00	12.00	72000.00
84	084	Fabrication of Buffer Box type with SH wooden/ST sleeper/ Rail etc including filling with earth providing bolts and nuts, MS Tie plate, painting, weilding, bending of rail etc complete in all respect.	Each	2.00	4923.00	9846.00
					<b>Total</b>	<b>138834256.00</b>
<b>Schedule</b>	Schedule 007-SCHEDULE A-VII					
<b>Item- 7</b>	SCHEDULE A-VII					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

1	001	Cess supply of approved quality Machine crushed stone ballast of nominal size 50mm from approved quarry and stacking, all lead lift, crossing of multiple lines, making road, loading & unloading, handling, deploying own tools & plants, machineries, labours, transporting the same by road transport from quarry to the site between Ch.- 26000 to Ch.- 27370 m and Ch.- 28485 to Ch.- 42620 m (from Bishnupur) including Baragopinathpur (Ch.- 30780, Jayrambati (Ch.- 37820) and Kamarpukur station (Ch.- 43070). Payment of requisite taxes, royalty and other charges for delivery complete in stack as per instruction of Engineer - In - Charge. NOTE ;; (i) The tenderer should submit test report of ballast as per provision of track ballast IRS-GE-I, June - 2004. (2) Payment shall be made for the gross measurement in stacks without any deduction for shrinkage/voides . (3) Ballast to be unloading level ground uprooting bushes etc. (4) Stacking profile of ballast to be maintained as per Railway's latest guideline and additional special condition of this contract. (5) The Railway will not supply any tools & plants and equipment's for this work. (6) For escalation purpose labour, materials and fuel components will be consider has mentioned in the tender documents.	cum	12000.00	2001.00	24012000.00
					<b>Total</b>	<b>24012000.00</b>
<b>Schedule</b>	Schedule 008-SCHEDULE B-I(A)					
<b>Item- 8</b>	SCHEDULE B-I(A)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		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	30000.00	88.16	2644800.00
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

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

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	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	15000.00	7.32	109800.00
		Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position :				
10	071012	Sal wood	cudm	250.00	52.03	13007.50
11	071013	Hollock wood or locally available comparable species of country wood (to be listed by respective railway). - Kiln seasoned & chemically treated	cudm	10.00	53.02	530.20
		Providing and fixing flush door shutters to IS: 2202 Part-I non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
12	072151	35mm thick including ISI marked stainless steel butt hinges with necessary screws	Sqm	50.00	1352.28	67614.00
13	072152	30mm thick including ISI marked stainless steel butt hinges with necessary screws	Sqm	85.00	1286.46	109349.10
		Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets				
14	074221	20mm dia (heavy type)	Metre	100.00	138.28	13828.00
		Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete				
15	074232	Fixed to opening/ wooden frames with rawl plugs screws etc.	Kg	5000.00	88.09	440450.00
		Providing and fixing float glass panes with putty and nails including removal of old broken panes wherever required				
16	074301	Float Glass panes 4mm thick (10kg /sqm)	Sqm	10.00	590.67	5906.70
17	074302	Frosted glass panes 4mm thick (10kg /sqm)	Sqm	10.00	570.64	5706.40
		Providing and fixing M.S. sliding door bolts generally conforming to IS: 281, bright satin finish or black stone enamelled with nuts and screws etc. complete of size				
18	075051	300x16 mm	Each	25.00	198.04	4951.00
19	075052	250x16 mm	Each	15.00	178.34	2675.10

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

		Providing and fixing M.S. tower bolts generally conforming to IS:204 (Part I) with necessary screws etc. complete of size.				
20	075062	200x10 mm	Each	50.00	70.30	3515.00
21	075064	100x10 mm	Each	50.00	45.19	2259.50
		Providing and fixing M.S. door handles with necessary screws etc. complete.				
22	075072	100mm	Each	50.00	22.15	1107.50
23	078130	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitered at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge	Metre	100.00	486.05	48605.00
24	078180	Providing and fixing to existing door frame 24mm thick factory made PVC door shutters made of styles and rails of a PVC hollow section of size 59mm x 24mm with a wall thickness 2mm±0.2mm. The styles and rails mitered cut and joined at corners by means of M.S. galvanized /plastic brackets of size 75mm x 220mm having wall thickness 1.0mm/solid and fix with stainless steel screws. The styles of shutter reinforced by inserting galvanized M.S. tube of size 19mm x 19mm with a wall thickness 1mm±0.1mm. The lock rail made out of 'H' section, PVC hollow section of size 100mm x 24mm with a wall thickness 2mm±0.2mm, fixed to shutter styles by means of plastic/galvanized M.S. 'U' cleats. The shutter frame filled with a PVC multi-chambered panel of size 20 x 200mm with a wall thickness 1mm±0.1mm. The panels filled vertically and tie bar at two places by inserting horizontally 0.6mm galvanized M.S. rod and fastened with nuts and washers	Sqm	50.00	2128.36	106418.00
25	091070	Moorum flooring 10 cm thick (consolidated depth) including watering and ramming. With Contractor's Moorum	Sqm	4500.00	128.52	578340.00
		Cement plaster skirting (upto 30cm height) with cement mortar 1:3 (1cement: 3coarse sand) finished with a floating coat of neat cement				
26	092021	15mm thick	Sqm	250.00	116.08	29020.00
		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 :				
27	094061	250mm x 250mm x 25mm thick	Sqm	10.00	522.36	5223.60
28	094062	300mm x 300mm x 30mm thick	Sqm	4550.00	646.93	2943531.50
29	094063	400mm x 400mm x 35mm thick	Sqm	10.00	769.12	7691.20

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

		Providing and fixing 10mm thick heavy duty acid and/or alkali resistant factory made tiles conforming to Group V-RD series of approved make and colour using acid and/or alkali resisting mortar bedding and joints filled with acid and/or alkali resisting cement as per IS: 4457 complete including cost of acid/alkali resistant cement				
30	094071	In flooring on a bed of 10mm thick mortar 1:4 (1 Appropriate cement : 4 coarse sand)	Sqm	100.00	1076.43	107643.00
31	094072	In dado/skirting on 12mm thick mortar 1:4 (1 Appropriate cement : 4 coarse sand)	Sqm	30.00	1156.54	34696.20
		Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete				
32	095012	200x300 mm	Sqm	200.00	673.17	134634.00
33	095013	300x450 mm and above	Sqm	100.00	745.00	74500.00
		Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete				
34	095021	Of Group B-II Clause 5.1 (for abrasion resistance) of IS:15622 (Ceramic Floor Tiles) of size 300x300mm	Sqm	80.00	587.06	46964.80
35	095026	Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm	Sqm	500.00	1102.32	551160.00
		Kota stone slab flooring of size up to 60x60cm over 20mm (average) thick base of 1:4 cement mortar (1cement: 4coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete				
36	096072	25mm thick	Sqm	400.00	1430.15	572060.00
37	096080	Kota stone slabs 25mm thick in risers of steps, skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1cement: 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete :	Sqm	350.00	1031.57	361049.50
38	096090	Extra for nosing in steps and treads of kota stone slab.	Sqm	175.00	144.64	25312.00
		Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels				
39	099035	Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger	Sqm	45.00	3646.55	164094.75

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

		Extra for providing edge moulding to 16mm to 20mm thick marble/granite stone counters, vanities etc including machine polishing to edge to give high gloss finish etc. complete as per design approved by the Engineer-in-Charge				
40	099062	Granite work	Metre	45.00	169.72	7637.40
		Providing and fixing on wall face unplasticised - Rigid PVC single socketed rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion.				
41	108162	110mm dia.	Metre	200.00	232.69	46538.00
		Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised- Rigid PVC rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion.				
42	108172	Coupler, 110mm	Each	50.00	204.64	10232.00
		Providing and fixing on wall face unplasticised - PVC moulded bend and shoe for unplasticised-Rigid PVC rain water pipes conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion				
43	108182	Bend 87.5o, 110mm dia bend	Each	25.00	214.46	5361.50
		12 mm cement plaster of mix -				
44	111042	1:6 (1cement: 6coarse sand)	Sqm	5000.00	64.99	324950.00
45	111090	12 mm cement plaster 1:3 (1cement: 3coarse sand) finished with a floating coat of neat cement	Sqm	2000.00	78.37	156740.00
		Cement plaster to ceiling of mix -				
46	111151	6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	800.00	55.56	44448.00
47	112040	Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete	Sqm	2000.00	76.54	153080.00
48	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
49	115170	Finishing walls with Acrylic Smooth Interior paint of required shade on new work (Two or more coats applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/10sqm	Sqm	2000.00	86.47	172940.00
50	115180	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade on new work (Two or more coats applied @ 1.43ltr/10 sqm over and including one coat of water proofing cement paint applied @ 2.20 kg/10sqm	Sqm	1500.00	83.48	125220.00
		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				
51	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				
52	117091	Two or more coat, to give an even shade	Sqm	100.00	81.58	8158.00
		Applying Priming Coat :				
53	121011	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	200.00	22.42	4484.00



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

54	121013	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanized iron/steel works	Sqm	400.00	18.55	7420.00
55	121014	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	400.00	10.52	4208.00
56	121020	Painting wood work with Deluxe Multi Surfaces Paint of required shade. Two or more coat applied @ 0.90ltr/ 10sqm over an under coat of primer, applied @ 0.75ltr/ 10sqm of approved brand or manufacture	Sqm	150.00	69.79	10468.50
57	121030	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coats applied @ 0.90ltr/ 10sqm over an under coat of primer applied @ 0.80ltr/ 10sqm of approved brand or manufacture	Sqm	300.00	72.63	21789.00
		Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				
58	121051	Two or more coats on new work	Sqm	500.00	50.45	25225.00
59	121052	One or more coats on old work	Sqm	100.00	32.44	3244.00
		Painting with aluminium paint of approved brand and manufacture to give an even shade				
60	121091	Two or more coats on new work	Sqm	3000.00	42.42	127260.00
61	121092	One or more coats on old work	Sqm	500.00	26.90	13450.00
62	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
63	121180	Painting one coat with white or green ready mixed paint of approved quality on steel or wood work	Sqm	100.00	33.92	3392.00
		Painting, Two coat , any shade as directed of approved make and brand a) Trusses upto 9m clear span and b) Staging with O.H. tank where staging is upto 2.5m in height				
64	123021	With Red Oxide metal primer as per IS:123	Sqm	250.00	28.97	7242.50
65	123022	With Zinc Chromate primer as per IS:104	Sqm	250.00	27.33	6832.50
66	123023	With Synthetic Enamel paint.	Sqm	100.00	47.38	4738.00
67	123024	With Aluminium paint as per IS:2339.	Sqm	500.00	32.14	16070.00
		Painting, Two coat, any shade as directed of approved make and brand a) Trusses exceeding 9m clear span, b) Staging with O.H. tank where staging is more than 2.5m in height, c) Flood light towers, d) Chimneys and similar structures				
68	123041	With Red Oxide metal primer as per IS:123	Sqm	250.00	35.47	8867.50
69	123042	With Zinc Chromate primer as per IS:104	Sqm	250.00	33.83	8457.50
70	123043	With Synthetic Enamel paint	Sqm	100.00	53.88	5388.00
71	123044	With Aluminium paint as per IS:2339	Sqm	500.00	38.64	19320.00
		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing in This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls etc.				
72	131091	15mm nominal outer dia. Pipes	Metre	85.00	177.18	15060.30
73	131092	20mm nominal outer dia. Pipes	Metre	50.00	198.40	9920.00
74	131093	25mm nominal outer dia. Pipes	Metre	10.00	237.04	2370.40



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in-Charge. External work				
75	131101	15mm nominal outer dia. Pipes	Metre	10.00	123.87	1238.70
76	131102	20mm nominal outer dia. Pipes	Metre	10.00	145.08	1450.80
77	131103	25mm nominal outer dia. Pipes	Metre	10.00	186.72	1867.20
78	131105	40mm nominal outer dia. Pipes	Metre	100.00	332.39	33239.00
		Hoisting, fitting and fixing in position plastic moulded water storage tank including making connection of intake, delivery, outlet and overflow .pipes etc. with all lead and lift upto all stories. Cost of tanks/fittings to be paid separately				
79	138043	1000 ltr capacity tank	Each	2.00	1234.44	2468.88
		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.				
80	142034	500mm dia. R.C.C. pipe	Metre	50.00	974.71	48735.50
		Demolishing plain cement concrete including disposal of material within 50m lead				
81	181021	1:2:4 or richer mix with max. 20 mm coarse aggregate	cum	100.00	448.29	44829.00
82	181022	Mix leaner than 1:2:4 with coarse aggregate larger than 20mm	cum	100.00	276.32	27632.00
83	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				
84	182013	In cement mortar	cum	1000.00	378.50	378500.00
		Extra for removing mortar from bricks and cleaning bricks (stacks of cleaned bricks shall be measured)				
85	182023	From brick work in cement mortar	1000 Nos.	5000.00	1301.74	6508.70
86	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				
87	222261	600 mm dia.	Metre	100.00	1939.08	193908.00
88	222264	1200 mm dia.	Metre	100.00	4486.55	448655.00
89	222300	Dewtering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours	HP Hour	40000.00	24.80	992000.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

		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.				
90	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				
91	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.				
92	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
93	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)				
94	238031	25 mm thick	Sqm	1500.00	700.51	1050765.00
95	238032	40 mm thick	Sqm	100.00	1120.82	112082.00
96	251190	Thermocol sheets of various standard sizes 20mm thick	Sqm	1000.00	28.75	28750.00
97	252020	Moorum	cum	10000.00	434.38	4343800.00
98	252140	Local sand / pit sand/yamuna sand for filling purposes	cum	15000.00	402.50	6037500.00
99	257050	Polyethylene Vinyl Chloride water storage tank with cover and suitable locking arrangement	Litre	3000.00	8.63	25890.00
					<b>Total</b>	<b>25828314.01</b>
<b>Schedule</b>	Schedule 009-SCHEDULE B-I(B)					
<b>Item- 9</b>	SCHEDULE B-I(B)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		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	300.00	2208.57	662571.00
2	051015	Cement mortar 1:6 (1 cement : 6 fine sand)	cum	50.00	2163.97	108198.50

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

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	175.00	265.31	46429.25
5	051190	Extra for half Brick masonry in superstructure above plinth level upto floor two level	Sqm	150.00	42.15	6322.50
		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	500.00	171.16	85580.00
		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
					<b>Total</b>	<b>1065349.25</b>
<b>Schedule</b>	Schedule 010-SCHEDULE B-I(C)					
<b>Item- 10</b>	SCHEDULE B-I(C)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		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	4000.00	2325.34	9301360.00
		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 :				
3	031051	All works upto Plinth level	cum	250.00	2247.57	561892.50
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	75.00	2384.98	178873.50
		Centering and shuttering including strutting, propping etc. and removal of form work for :				
5	031061	Foundations, footings, bases of columns	Sqm	4000.00	146.28	585120.00
		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	300.00	2867.84	860352.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

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	40000.00	77.03	3081200.00
		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	18000.00	2732.49	49184820.00
9	041012	All work in buildings above plinth level upto floor two level.	cum	250.00	3004.22	751055.00
10	041015	In kerbs, steps and the likes etc.	cum	15.00	2638.05	39570.75
		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	25000.00	145.90	3647500.00
12	042012	Walls (any thickness) including attached plasters, buttresses, plinth and string courses etc.	Sqm	45000.00	239.00	10755000.00
13	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	3000.00	234.36	703080.00
14	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	4000.00	208.55	834200.00
15	042015	Columns, pillars, , posts and struts	Sqm	4000.00	297.00	1188000.00
16	042016	Stairs (excluding landings) except spiral-staircases	Sqm	2000.00	289.10	578200.00
17	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	50000.00	6.43	321500.00
		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.				
18	043011	In string courses, bands, coping, bed plates, anchor blocks, plain window sills, and the like	cum	250.00	3106.52	776630.00
19	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	200.00	3021.29	604258.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

		Cement concrete flooring 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete				
20	092013	50mm thick with 20mm nominal size stone aggregate	Sqm	200.00	161.38	32276.00
21	092014	75mm thick with 20mm nominal size stone aggregate	Sqm	50.00	218.89	10944.50
22	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	85.00	2020.53	171745.05
23	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	100.00	2564.30	256430.00
					<b>Total</b>	<b>84530999.80</b>
<b>Schedule</b>	Schedule 011-SCHEDULE B-I(D)					
<b>Item- 11</b>	SCHEDULE B-I(D)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		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				
1	081011	In RSJ, tees, angles and channels	Kg	15000.00	71.43	1071450.00
2	081012	In flats, plates, round or square bars	Kg	10000.00	71.23	712300.00
		Structural steel work riveted or bolted in built up sections, trusses and framed work, girders, staging, racks etc including cutting, bending, straightening, drilling, rivetting, bolting, hoisting, fixing in position including applying a priming coat of a approved steel primer complete - upto 6m height above GL				
3	081021	In RSJ, tees, angles and channels	Kg	8000.00	74.79	598320.00
4	081022	In flats, plates, round or square bars	Kg	8000.00	75.00	600000.00
		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				
5	081031	In RSJ, tees, angles and channels	Kg	120000.00	100.34	12040800.00
6	081032	In flats, plates, round or square bars	Kg	150000.00	97.88	14682000.00
7	081140	Supplying and fixing lewis/ holding down bolts of approved design with nuts and washers complete	Kg	4000.00	69.49	277960.00
8	081180	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia, steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles and hold fasts including applying a priming coat of approved steel primer	Sqm	30.00	3457.49	103724.70

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

		Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS:1285, anodised transparent or dyed to required shade according to IS:1868 (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitered and jointed mechanically wherever required including cleat angle. Aluminium snap beading for glazing/ panelling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately)				
9	082011	For fixed portion	Kg	10.00	494.56	4945.60
		Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item)				
10	082031	With float/frosted glass panes of 4mm thickness (weight not less than 10.0 kg/sqm)	Sqm	150.00	907.36	136104.00
11	082032	With float/frosted glass panes of 5.5mm thickness (weight not less than 13.75 kg/sqm)	Sqm	150.00	1030.01	154501.50
12	083050	Fabricating, supplying & installing stainless steel railings for staircases, balconies, FOBs, Enquiry/Reservation complex etc., made of SS 304 grade stainless steel, laser cut / water jet cut (no shearing), polished with Automatic round/flat polishing machine to get a uniform hairline finish. All parts shall be connected to each other with the help of prescribed size CNC made solid connectors, countersunk screws. Welding should be finished ensuring that no welding marks are visible and assembly is mounted on floor with the help of dash fasteners. Railings shall be fabricated as per approved drawings by engineer-in-charge. Manufacturer shall submit maintenance manual and basic material test report for grade certification.	Kg	1500.00	689.78	1034670.00
13	109150	Supplying, fabricating and erecting valley gutter having 1.00 meter width, made out of 0.91mm thick aluminum sheets, the joints shall be made by aluminum welding to make water tight including supplying manufacturing and fixing brackets made out of MS flats 50mm x 6mm at the spacing of 75 cm center to center. The rate will be including supply of all materials, labours, tools, plants, equipments, scaffolding and staging etc. Complete work shall be carried out as directed by engineer in charge	Metre	3000.00	1073.36	3220080.00



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

14	109200	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 zincalume / 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	Sqm	550.00	734.20	403810.00
		Providing and fixing of plain formed 0.7 mm thick aluminum sheet flashing at ridges apex junctions of roofing and cladding, cover / corner / barge pieces etc. of required shape colour and profile as per site requirement				
15	109271	Upto 600 mm width (girth)	Running Metre	250.00	2361.36	590340.00
		Providing and fixing of plain formed 0.5 mm thick aluminum sheet flashing at ridges apex junctions of roofing and cladding, cover / corner / barge pieces etc. of required shape colour and profile as per site requirement				
16	109291	Upto 600 mm width (girth)	Running Metre	100.00	1567.53	156753.00
17	109292	601mm to 1200 mm width (girth)	Running Metre	10.00	2275.38	22753.80
		Supplying of all types of structural steel conforming to Fe 410 B of IS:2062, fabrication, assembling, erection / slewing / end launching of steel girders (Not requiring traffic block) upto 45.7 M span on sub-structure including provision of trolley refuges, if required complete as per approved drawing including one coat of Zinc chrome primer to 1S-104 & one coat of Zinc Chrome Red Oxide to IS 2074 and painting as per IRS-B-1 on all members, (Detailed fabrication and erection drawings and launching methodology will be prepared and got approved by the contractor from Railway). Rate include fabrication of all the types of battens, bracings, ties, stiffeners, packing, diaphragms, shop rivets / welding, T & F bolts, drifts, shop welds, templates, jigs, fixtures, back up supports, accessories, transporting various components from fabrication shop to site, including loading, unloading, lift and taxes complete. assembly of girders on- drifts/bolts, field riveting/welding, assembling of temporary support for side slewing, raising of girders to the bed block level, providing sliding arrangements and slewing the girder in position, lowering of girder on bearings and bed plates. grouting holes in the bed block for fixing of HD bolts/anchor pins of bed plates, all temporary arrangements. Load testing may be done under chapter 22.The bearing sets to be provided with the girders will be paid separately as per relevant item separately. Payment Schedule [i] Material at site - 40% [ii] Fabrication at site - 15% [iii] Erection/Launching - 20% [iv] Completion incl. painting and finishing - 25%				

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

18	211011	Plate Girder/Semi Through Girder	MT	50.00	84311.47	4215573.50
19	211012	Open web Girder	MT	600.00	89417.26	53650356.00
20	211030	Fabricating, supplying and fixing in position Galvanized steel channel sleepers of mild steel of tested quality conforming to IS: 2062, on fabricated girders including all fixtures fastenings as per approved Railway drawings with labour, material, tools and plants etc. as a complete job including galvanizing of all components	MT	92.00	107570.15	9896453.80
21	211040	Fabricating, supplying and fixing of 6 to 8 mm thick steel chequered plate conforming to IS: 3502 for pathway, trolley refuges, floor for the bridge including fixing the same over steel channel sleepers by drilling holes in channel sleepers and trolley refuges incl. nuts & bolts, tools and plants, labour as a complete job	MT	30.00	124765.71	3742971.30
22	211090	Providing, cutting, fabricating, treating, fixing & painting structural steel conforming to IS:2062 in access ladders, inspection platforms, Trolley refuge, railing, etc. joints welded to neat finish including one coat of primer & two coats of synthetic enamel paints	MT	55.00	69848.59	3841672.45
23	211100	Supplying, fitting and fixing in position true to line and level cast steel rocker bearing complete as per IS : 7666, IS:9565, IS:1030, IS:919, IS:3073 and as per Bridge Code including all accessories as per drawing and Technical Specifications	MT Bearing Capacity	2500.00	459.42	1148550.00
24	211110	Supplying, fitting and fixing in position true to line and level forged steel roller bearing conforming complete as per IS : 7666, IS:9565, IS:1030, IS:919, IS:3073 and as per bridge code including all accessories as per drawing and Technical Specifications	MT Bearing Capacity	2500.00	489.68	1224200.00
					<b>Total</b>	<b>113530289.65</b>
<b>Schedule</b>	Schedule 012-SCHEDULE B-I(E)					
<b>Item- 12</b>	SCHEDULE B-I(E)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Providing, driving and installing driven cast-in-situ reinforced cement concrete piles M 35 grade to carry safe working load not less than specified, including the cost of shoe and pile to be embedded in the pile cap as a complete job. Payment for steel reinforcement & cement will be made extra. Length of pile for payment shall be measured from top of shoe to the bottom of pile cap				
1	171603	500mm dia piles	Metre	500.00	2740.93	1370465.00
		Vertical load testing of piles in accordance with IS: 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and the direction of Engineer-in-Charge				
2	171652	Single pile upto 50 tonne capacity - routine test	Each Test	5.00	23694.60	118473.00



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

		Providing, Driving and installing Bored cast in situ Reinforced Cement Concrete piles of specified diameter and length below pile cap in M- 35 grade Design Mix Cement Concrete , using 20 mm graded crushed stone aggregate and coarse sand of approved quality, to carry a safe working load not less than specified, excluding the cost of casing pipe but including the cost of shoe and length of pile to be embedded in pile cap etc complete, concreting by machine batching, machine mixing, scaffolding, using Admixture in recommended proportion( as per IS 9103), if approved in design Mix, placing with tremie pipe, chipping off of pile top to remove laitance concrete above cut off level etc, pumping and bailing out water, with all labour material complete including crossing of tracks if required, as per approved drawing, specification and direction of the Engineer in charge. Length of the pile for payment shall be measured Up to the bottom of pile cap excluding the mud mat. Payment for cement, casing pipe & reinforcement shall be paid extra				
3	192072	1200mm diameter	Metre	1500.00	12300.40	18450600.00
		Conducting load testing of a single pile Up to following capacity in accordance with IS 2911(Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification, as directed by the Engineer				
4	192103	Initial load test above 100 ton capacity Up to 250 ton capacity pile	Each	1.00	85370.25	85370.25
5	192104	Extra for every increase of 50 T in pile capacity or part thereof over 250 T	Each	1.00	8972.59	8972.59
6	192107	Routine Load Test above 100 ton capacity Up to 250 ton capacity pile	Each	1.00	66455.22	66455.22
					<b>Total</b>	<b>20100336.06</b>
<b>Schedule</b>	Schedule 013-SCHEDULE B-I(F)					
<b>Item- 13</b>	SCHEDULE B-I(F)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
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	3000.00	279.15	837450.00
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	7000.00	319.99	2239930.00
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	6000.00	1080.90	6485400.00
4	221070	Providing and laying Filter material As Per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical specification	cum	1000.00	2033.94	2033940.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

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	18000.00	144.75	2605500.00
6	252390	Stone Boulder Weighing minimum 35 Kg Each	cum	15000.00	596.94	8954100.00
					<b>Total</b>	<b>23156320.00</b>
<b>Schedule</b>	Schedule 014-SCHEDULE B-I(G)					
<b>Item- 14</b>	SCHEDULE B-I(G)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Exploratory drilling of Boreholes down to required depth, drilling of 150mm diameter boreholes in all type of soils except hard rock and large boulders (boulder core more than 30 cm), including refilling and reinstating surface, and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion / chiselling tool for advancing through occasional seams of hard strata to be employed, where necessary in Dry area				
1	191011	0m to 10m	Metre	100.00	813.05	81305.00
2	191012	10m to 20m	Metre	100.00	927.26	92726.00
3	191013	20m to 30m	Metre	100.00	880.80	88080.00
4	191014	30m to 40m	Metre	50.00	905.97	45298.50
5	191015	40m to 50m	Metre	50.00	967.91	48395.50
		Conducting in situ full size Plate load test (PLT) at selected location as per IS: 1888 including making loading arrangements & casting of RCC/cast in situ concrete footing as per codal provisions including excavation and refilling of trial pit				
6	191052	b. Plate size 45 cm x 45 cm	Each	6.00	43362.66	260175.96
7	191100	Taking out 100mm dia & 450mm long undisturbed samples of soil from bore holes, including provision of air tight containers for packing and, labelling incl. transporting the samples to laboratory. Piston sampler shall be used for extracting undisturbed samples where necessary. Samples shall be collected as per IS 2720	Each	75.00	108.40	8130.00
8	191120	Conducting standard penetration test as per IS 2131 at approximate 1.5 m intervals in bore holes, as directed by the Engineer in charge	Each	125.00	104.54	13067.50
9	191130	Collection of water samples at required intervals	Each	10.00	228.43	2284.30
		Conducting laboratory Tests on collected soil samples as per relevant IS code				
10	191141	Moisture contents/ Dry density	Each	40.00	65.82	2632.80
11	191142	Atterberg Limit	Each	40.00	69.69	2787.60
12	191143	Specific Gravity	Each	40.00	65.82	2632.80
13	191144	Grain size analysis including Hydrometer analysis	Each	40.00	85.17	3406.80
14	191145	Direct Shear Test	Each	40.00	174.23	6969.20
15	191146	Natural density	Each	40.00	170.36	6814.40
16	191147	Consolidation test	Each	40.00	282.63	11305.20
17	191148	Unconfined compression test	Each	40.00	205.20	8208.00
18	191149	Tri-axial test	Each	40.00	274.89	10995.60
		Conducting Laboratory tests on collected ROCK SAMPLES as per relevant IS code				
19	191151	Density test	Each	40.00	387.16	15486.40

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

20	191170	Conducting chemical analysis of soil samples to determine aggressiveness in relation to attack on concrete / reinforcement including determination of pH value	Each	10.00	960.18	9601.80
21	191180	Preparation and submission of Final report giving complete and comprehensive record of investigations, laboratory test reports and calculations in approved format	Each	1.00	51493.16	51493.16
					<b>Total</b>	<b>771796.52</b>
<b>Schedule</b>	Schedule 015-SCHEDULE B-I(H)					
<b>Item- 15</b>	SCHEDULE B-I(H)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		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	15000.00	316.31	4744650.00
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	4125.00	2178.24	8985240.00
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	56250.00	96.41	5423062.50
		Centring and shuttering including strutting, propping etc. and removal of form for :				
5	195031	RCC raft foundation & Pile cap	Sqm	2000.00	145.90	291800.00
6	195032	Abutment, pier, wing walls and return walls	Sqm	4000.00	239.00	956000.00
7	195033	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall, etc.	Sqm	2000.00	234.36	468720.00

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

8	195034	Approach slab at formation level, Dirt wall/ ballast wall at formation level	Sqm	1000.00	145.90	145900.00
9	195038	In Bottom/top slab, side walls, toe wall and sumps haunch filling head walls or any other component	Sqm	6000.00	239.00	1434000.00
					<b>Total</b>	<b>24191964.50</b>
<b>Schedule</b>	Schedule 018-SCHEDULE C-I					
<b>Item- 18</b>	SCHEDULE C-I					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	001	Supply of cement to the site of work to the extent required by Railway for use in the work. The rate quoted shall include all costs of handling, loading, transportation, unloading, lead, lift, descent, ascent, storing etc and all other incidental charges. Note:- (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 from 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) Manufacturers 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. Ordinary Portland Cement (OPC) conforming to IS : 8112/IS 12269 (43/53 Grade) with latest correction slips.	MT	9500.00	8790.00	83505000.00
2	002	Portland Slag Cement (PSC) conforming to IS : 455 (Specification / Note same as item no. 001 of this schedule)	MT	7000.00	8038.00	56266000.00
					<b>Total</b>	<b>139771000.00</b>
<b>Schedule</b>	Schedule 019-SCHEDULE C-II					
<b>Item- 19</b>	SCHEDULE C-II					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 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 & all other incidental charges. Reinforcement steel / Rebar (TMT) conforming to IS : 1786-2008 of any diameter. Conditions for supply of Reinforcing Steel : (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 14.5.1 of Ch-II of this tender document, (4) Manufacturers 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, (6) Payment towards reinforcing steel will be made through running and final bills on the basis of actual consumption based on theoretical requirements in the work as per design/drawing, bar bending schedule, lap length and no payment will be payable towards whatever wastage taken place i.e. cut pieces etc. which will be the contractor's property and the same shall be removed from the site at his own cost. The contractor shall make his own arrangements for storing reinforcing steel in a safe and satisfactory manner. (7) In case of any doubts regarding quality of steel, the Railway reserves the right to take samples of steel supplied by the contractor at any time and to get the same tested in reputed laboratories and acceptance of the supplied steel shall be subject to such test results which shall be binding on the contractor. Cost incurred towards conducting such tests will be borne by the contractor. (8) Testing of reinforcing steel will be done periodically or as instructed by Engineer-in - Charge from Govt laboratory or reputed Institution. Testing charges will be borne by the contractor. (9) The rate shall be inclusive of all wastage, octroi, and all kind of taxes, levied by local municipal authorities / State Govt./Central Govt. (10) Railway reserves the right to supply the material partly or fully from its own stores. (11) Particular attention is invited to the fact materials are not meant for supply only and no payment shall be made for supply alone. The payment shall be made only after use of these materials in the actual work for which supply is intended. The payment shall be restricted to the extent of materials used in the work. (remaining foot note given as in Special Condition of item no. 1.2 of NIT)	MT	4000.00	78617.00	314468000.00
					<b>Total</b>	<b>314468000.00</b>

**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

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Submit the scanned copy (In PDF Form) of the documents as per the requirement of financial eligibility criteria of the tender [Refer para 2.3 of tender document {Para 2.3 for tenderer(s) participating as JV firm}]. TENDERS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED.	No	No	Allowed (Mandatory)
1.1	Submit the scanned copy (In PDF Form) of the documents for evaluating the Bid Capacity (Please refer Clause 12.25 of tender document). This is applicable in all works contract having tender value of Rs. 20.00 Crore and above. TENDERS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED.	No	No	Not Allowed

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	(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, or Two 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 tender Note: 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.Note: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered atleast 5 years prior to the date of opening of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.(C) SIMILAR NATURE OF WORK FOR THIS TENDER IS: "Execution of any civil engineering work involving earthwork in formation of minimum quantity of 02(two) lacs cum and supply, fabrication, erection and launching of bridge girders of minimum single span of 12.20m or above with pile/well foundation".	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	For Similar nature of work: 1. Execution of any civil engineering work involving earthwork in formation of minimum quantity of 02 (two) lacs cum and supply. fabrication, erection and launching of steel girder/composite girder of minimum single span of 12.20m or above over pile/well foundation. 2. In addition the tenderer (In case of JV, either JV itself or any constituent of JV) should have executed P. Way Track Linking work in same contract or any other contract in past irrespective of 7 years stipulations as mentioned in para 2.3.1 (A) of NIT. (Documentary evidence to be uploaded along with the offer. Such document shall be signed/issued by the Authority as mentioned in the NIT).	No	No	Allowed (Mandatory)

**Submission of Document Verification Certificate**

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

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. <a href="#">( Click here</a> to download the Format of Self Certificatio)	No	No	Allowed (Mandatory)

**Standard Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1.Tenderer has to submit (scanned copy in PDF format) the details of the total contract amount received by the tenderer during last 3 financial years and in the current financial year and this should be a minimum of 150 percentage of advertised tender value. Tenderer has to produce attested certificate from the employer/client, audited Balance sheet duly certified by the Chartered Accountant etc along with the tender offer. 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 20 CHAPTER - I OF THE TENDER DOCUMENT).	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
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	Electronic Reverse Auction (eRA) is applicable in works tender valued more than Rs. 50 crore in each case. [Refer para 14d of tender document].	No	No	Not Allowed



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

5	There are several changes in the tender document after the new GCC July 2020 is issued. Tenderer(s) are requested to go through the tender document & GCC carefully before the submission of the offer.	No	No	Not Allowed
6	All General Instructions are available in the uploaded tender document.	No	No	Not Allowed
7	Contract under EBR (IF): It is agreed by and between the parties that Railway shall continue to be held responsible for all obligations, risk and liabilities, whatsoever, arising out of or in connection with the Principal agreement and this novation agreement, whether during the progress of the work or after its completion. It is further agreed and understood by and between the parties that IRFC shall be the owner of assets, if any, arising out of execution of works as defined in the Principal Agreement, except the land whose ownership shall continue with Railway. Accordingly, the invoices shall be issued by capturing GSTIN of contractor (as the supplier) and GSTIN of IRFC (as bill to party). Also, the contractor shall submit the invoice, issued in the name of IRFC, to railway for processing payment by Railway to contractor subject to applicable TDS under the Income Tax, GST or any other applicable laws. It is further agreed by and between the Parties that IRFC shall be responsible to comply with Income Tax and GST laws in relation to filing of returns.	No	No	Not Allowed

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	"Special condition for P.Way Works (Schedule-A-VI) :- i) Necessary lighting arrangements should be done by the contractor in case of night working at his own cost. ii) No claim or compensation will be paid for loss due to non-availability of traffic block. iii) All release materials fittings and fastenings and other small P.Way items should be stacked at safe place and will remain under contractor's custody till final disposal as per direction of Engineer-in-charge. iv) To ensure safety of men and materials and traffic, contractor will provide sufficient watchman, flagman, whistle man, as required based on site condition & payment of labours will be made separately. v) Jim crow shall be arranged by the contractor, if required, at his own cost. The same shall be the property of the contractor after completion of work."	No	No	Not Allowed
1.1	(xvi) 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 ) to Jairambati(Ch.- 44751 from VSU / Ch.- 37820 m from TAK) upto Ch.- Goghat (Ch.- 48570/39550) over district Bankura & Hooghly , W.B. as per instruction of Engineer-in-charge.	No	No	Not Allowed



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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

1.2	<p>Note: 1) Please quote overall %age above/below rates in reference to above basic cost of this schedule on Rate-index page only. Please note that item wise quoting of rates on individual schedules will not be acceptable and the tender will be summarily rejected. 2) Basic cost of this schedule is indicated only based on average prevalent rates shown against each item. 3) It will be the contractor's responsibility to hand over the vacant unoccupied possession of the completed works to the Railway's Authorized Representative. 4) All water to be used in the work shall be of appropriate quality and shall be arranged by the Contractor at the site of requirement at his own cost. Railway shall not supply it. 5) The Railway shall not supply any equipments, tools and plants unless specifically mentioned in the item of Schedule C-II. 6) The items to be operated under this Schedule are those, which have been listed in Schedule -II. Notes for Sch. CI &amp; CII: Materials as per requirements shall be brought to site and kept under Contractor's custody at their own cost and risk, without any damage like setting of cement / 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, empty cement bags, etc. will be the contractor's 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 / authorised dealers/authorised stock yards and shall conform to latest IS (BIS) , specification. 4) Cement bags preferably in papers bags should bear following information in legible marking : i) Manufacturer's name : 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 manufacture: generally marked as well as of the monthly 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 &amp; tensile strength. ii) Initial and final setting time. iii) Consistency iv) Soundness v) Fineness modules etc. 7) The railway reserves the right to take samples of materials supplied by the Contractor and to get the same tested in reputed and approved laboratories and the results there of shall be binding on the Contractor. General Note:- (i) Please quote overall %age above/below rates in reference to above basic cost of this schedule on rate-index page only. Please note that itemwise quoting of rates on individual schedules will not be acceptable and the tender will be summarily rejected. (ii) Basic cost of this schedule are indicated only based on average prevalent rates shown against each item. (iii) It will be the contractor's responsibility to hand over the vacant unoccupied possession of the completed works to the railway's authorised representative. (iv) All water to be used in the work shall be of appropriate quality and shall be arranged by the contractor at the site of requirement at his own cost.</p>	No	No	Not Allowed
2	The contractor shall establish a well equipped field laboratory for testing of soil, cement, fine & coarse aggregates, concrete etc. as per GEGI.	No	No	Not Allowed
3	" 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 :- (1) THREE Nos pota Cabin with following for each pota Cabin - 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)"	No	No	Not Allowed
4	The contractor shall provide three latest configuration computers with Hp Laser tank printers, scanner and router/modem with operator at site office as well as Dy.CE/CON/II/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.	No	No	Not Allowed
5	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.	No	No	Not Allowed

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

6	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.	No	No	Not Allowed
7	The contractor must be ensure to obey/follow the Covid protocols for their workers and also have to make available all sanitizing items to keep protection from COVID-19 & all it's all variants at site.	No	No	Not Allowed
8	Fully Automatic Concrete Batching & Mixing plant with cement silo is to be installed for producing of all types of concrete with suitable printer to print of batch report and time.	No	No	Not Allowed
9	Electrically operated CSTM should be provided by the Agency.	No	No	Not Allowed
10	The agency has to keep two nos. error free and calibrated Auto level m/c with two nos. of 6 to 10 m staff and Two Nos updated Total Station for levelling and survey work along with a team of trained & experienced Engineers, surveyors & supervisors.	No	No	Not Allowed
11	"Special condition for P.Way Works (Schedule-A-VI) :- i) Necessary lighting arrangements should be done by the contractor in case of night working at his own cost. ii) No claim or compensation will be paid for loss due to non-availability of traffic block. iii) All release materials fittings and fastenings and other small P.Way items should be stacked at safe place and will remain under contractor's custody till final disposal as per direction of Engineer-in-charge. iv) To ensure safety of men and materials and traffic, contractor will provide sufficient watchman, flagman, whistleman, as required based on site condition & payment of labours will be made separately. v) Jim crow shall be arranged by the contractor, if required, at his own cost. The same shall be the property of the contractor after completion of work."	No	No	Not Allowed

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

12	<p>Continued from Note of item no. 1 of Schedule A-I &amp; item no. 2 &amp; 3 of Schedule A-II. (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) Before starting of earthwork, contractor will have to make proper benching as per site condition on existing embankment slopes as per RDSO's latest guideline and also remove all grasses, bushes etc from proposed area of work. No extra payment will be made for such works. (viii) 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 asses 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. (ix) 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. (x) 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. (xi) Before quoting the rate, the contractor should inspect the site to assess the lead, site condition etc. (xii) 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. (xiii) 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. (xiv) Before beginning of work at site, contractor shall engage 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 presense of Railway officials for which no extra payment will be made. Approved/certified land plan to be supplied by E.Railway. (xv) 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.</p>	No	No	Not Allowed
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**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)

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

Tender No: 02WTCAOCER2021-22

Closing Date/Time: 11/03/2022 15:00

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
1	1/ 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	ANNEXTENDERDOCUMENT02WRCAOCER2021-22.pdf	STANDARD TENDER DOCUMENTS

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**