

**SER-CONST-HQ-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: 4256-GRC-CE-C-II-61-2020

Closing Date/Time: 09/03/2021 12:00

CE/CON acting for and on behalf of The President of India invites E-Tenders against Tender No **4256-GRC-CE-C-II-61-2020** Closing Date/Time 09/03/2021 12:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

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

1. NIT HEADER

Name of Work	Execution of work for the construction of minor bridge, Earth work, P.way linking, Tree cutting, Horticulture, Staff Qtrs., Station building, P.F wall, FOB, and other related works from Purulia to Kotshila in connection with Purulia- Kotshila doubling works under the jurisdiction of Dy. CE/Con/Adra. Chargeable to Estimate No 1787W/2019.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	09/03/2021 12:00	Date Time Of Uploading Tender	12/02/2021 17:51
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	978655961.60	Tendering Section	CE/CON/II
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money /Bid Security (Rs.)	0.00	Validity of Offer (Days)	60
Obtain Bid Security Declaration in lieu of Bid Security	Yes		
Tender Doc. Cost (Rs.)	0.00	Period of Completion	24 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	23/02/2021	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-Execution of all work as per schedule							7583409.68	Above/ Below/Par
1	Please see Item Breakup for details.				8888197.00	(-) 14.68	7583409.68	
Description:- Earthwork under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-Execution of all work as per schedule							6712536.69	Above/ Below/Par
2	Please see Item Breakup for details.				3361142.00	99.71	6712536.69	
Description:- Bridge Work for Substructure under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-Execution of all work as per schedule							36427640.99	Above/ Below/Par
3	Please see Item Breakup for details.				20224095.60	80.12	36427640.99	
Description:- Plain Cement Concrete under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule D-Execution of all work as per schedule							1370343.76	Above/ Below/Par
4	Please see Item Breakup for details.				808081.00	69.58	1370343.76	
Description:- Misc. Bridge Work & Supply of Material under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
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Schedule E-Execution of all work as per schedule				45633000.00	Above/ Below/Par
5	Please see Item Breakup for details.		45633000.00	AT Par	45633000.00
	Description:- Supply of Portland Slag Cement under Non SERUSSOR - 2010				

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule F-Execution of all work as per schedule							30479434.62	Above/ Below/Par
6	Please see Item Breakup for details.				22897930.00	33.11	30479434.62	
	Description:- Supply of Steel Reinforcement under SERUSSOR - 2010							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule G-Execution of all work as per schedule							14965660.20	Above/ Below/Par
7	Please see Item Breakup for details.				14965660.20	AT Par	14965660.20	
	Description:- Misc. Work under Non SERUSSOR - 2010							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule H-Execution of all work as per schedule							1456519.33	Above/ Below/Par
8	Please see Item Breakup for details.				1220069.80	19.38	1456519.33	
	Description:- Earthwork & Building Work under SERUSSOR - 2010							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule I-Execution of all work as per schedule							2229583.45	Above/ Below/Par
9	Please see Item Breakup for details.				1679915.20	32.72	2229583.45	
	Description:- Plain Cement Concrete under SERUSSOR - 2010							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule J-Execution of all work as per schedule							8226935.57	Above/ Below/Par
10	Please see Item Breakup for details.				5890266.75	39.67	8226935.57	
	Description:- Reinforced Cement Concrete under SERUSSOR - 2010							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule K-Execution of all work as per schedule							3333370.38	Above/ Below/Par
11	Please see Item Breakup for details.				2310668.50	44.26	3333370.38	
	Description:- Brick Work under SERUSSOR - 2010							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule L-Execution of all work as per schedule							12433441.66	Above/ Below/Par
12	Please see Item Breakup for details.				8479466.45	46.63	12433441.66	
	Description:- Wood, Steel & Aluminium Work under SERUSSOR - 2010							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule M-Execution of all work as per schedule							34419377.82	Above/ Below/Par
13	Please see Item Breakup for details.				23899026.40	44.02	34419377.82	
	Description:- Flooring Work under SERUSSOR - 2010							

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule N-Execution of all work as per schedule							4657498.67	Above/ Below/Par
14	Please see Item Breakup for details.				3436254.00	35.54	4657498.67	
Description:- Finishing Masonary, Pointing, Polishing & Varnishing Work under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule O-Execution of all work as per schedule							2834024.83	Above/ Below/Par
15	Please see Item Breakup for details.				2094158.60	35.33	2834024.83	
Description:- Drainage & Sewerage, Sanitary Installations Work under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule P-Execution of all work as per schedule							4934526.09	Above/ Below/Par
16	Please see Item Breakup for details.				2675555.00	84.43	4934526.09	
Description:- Dismantling Work under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule Q-Execution of all work as per schedule							13264049.59	Above/ Below/Par
17	Please see Item Breakup for details.				10044717.60	32.05	13264049.59	
Description:- Road Work under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule R-Execution of all work as per schedule							7625140.35	Above/ Below/Par
18	Please see Item Breakup for details.				5066538.44	50.50	7625140.35	
Description:- Supply of Materials under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule S-Execution of all work as per schedule							179087113.00	Above/ Below/Par
19	Please see Item Breakup for details.				179087113.00	AT Par	179087113.00	
Description:- Supply of Ballast under Non SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule T-Execution of all work as per schedule							88878620.92	Above/ Below/Par
20	Please see Item Breakup for details.				88878620.92	AT Par	88878620.92	
Description:- P. Way Linking Work under Non SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule U-Execution of all work as per schedule							9877072.00	Above/ Below/Par
21	Please see Item Breakup for details.				9877072.00	AT Par	9877072.00	
Description:- A. T. Welding of Rails under Non SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
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Schedule V-Execution of all work as per schedule				46929002.20	Above/ Below/Par
22	Please see Item Breakup for details.		46929002.20	AT Par	46929002.20
Description:- Supply of P. Way Fittings under Non SERUSSOR - 2010					

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule W-Execution of all work as per schedule							107843483.28	Above/ Below/Par
23	Please see Item Breakup for details.				112583237.58	(-) 4.21	107843483.28	
Description:- Carriage of Material under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule X-Execution of all work as per schedule							3714000.00	Above/ Below/Par
24	Lump Sum				1500000.00	147.60	3714000.00	
Description :- Lump Sum Work under SERSOR - 2001								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule Y-Execution of all work as per schedule							32712500.00	Above/ Below/Par
25	Lump Sum				25000000.00	30.85	32712500.00	
Description :- Lump Sum Work except the items covered under schedules A to D, F, H to R, W & ZB under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule Z-Execution of all work as per schedule							544960.00	Above/ Below/Par
26	Please see Item Breakup for details.				544960.00	AT Par	544960.00	
Description:- Tree Cutting, Enumeration & Transportation under Non SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule ZA-Execution of all work as per schedule							76139.50	Above/ Below/Par
27	Please see Item Breakup for details.				76139.50	AT Par	76139.50	
Description:- Pandal, table etc. under Non SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule ZB-Execution of all work as per schedule							1964475.82	Above/ Below/Par
28	Please see Item Breakup for details.				1905593.00	3.09	1964475.82	
Description:- Horticulture under SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule ZC-Execution of all work as per schedule							49362101.20	Above/ Below/Par
29	Please see Item Breakup for details.				49362101.20	AT Par	49362101.20	
Description:- Foot Over Bridge under Non SERUSSOR - 2010								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule ZD-Execution of all work as per schedule							219080000.00	Above/ Below/Par
	Please see Item Breakup for details.				219080000.00	AT Par	219080000.00	

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30	Description:- Earthwork under Non SERUSSOR - 2010
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3. ITEM BREAKUP

Schedule	Schedule A-Execution of all work as per schedule					
Item- 1	Earthwork under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Earthwork in cutting (Classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine and materials and removing & leading all cut spoils either to make spoil dumps beyond 10m. from cutting edge or for filling in embankment with all leads within the section limit, lifts, ascent, descent, loading, unloading, all taxes/royalty, clearance of site and all incidental charges, bailing & pumping out water if required, etc., complete as per directions of the Engineer-in-Charge. The work is to be executed as per Latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract				
1	013112	Soft rock not requiring blasting in all Conditions	cum	3000.00	227.08	681240.00
2	013114	In rock and very hard rock with hammer / chisel / pavement breaker etc. where blasting is not permitted due to special circumstances and if specifically ordered in writing incl. drilling and all incidental work in all conditions	cum	2000.00	474.67	949340.00
3	014040	Benching slopes, cuts 30 cm in height and approximately 60 cm wide	Sqm	110000.00	6.99	768900.00
		Turfing / planting, including all lead and lift, and watering as required until properly rooted, with. Note - Initially payment of only 40% will be made. Balance 60% will be paid only after 3 months of maintenance period if the turfing is properly rooted.				
4	014051	Turfing with sods, 10cm thick and 20 cm square closely laid	100 Sqm	110000.00	5004.87	5505357.00
5	014110	Providing and removing barricading with the help of portable fencing along the running track where the work is to be done in close vicinity of the track. Fencing shall consist of self supporting steel angles of size 50 x50x6mm, 1.5m long provided with hooks etc. and embedded in CC 1:2:4 block of size 0.23x0.23x0.23M placed at c/c distance of 2.0 M along the track. 12 mm dia rods in three horizontal layers tack welded with the angle posts including providing Retro-reflective tapes in Horizontal & vertical direction. Note : Released material will be the property of the contractor after the completion of work. Cost of cement to be paid separately.	Metre	4000.00	245.84	983360.00
					Total	8888197.00
Schedule	Schedule B-Execution of all work as per schedule					
Item- 2	Bridge Work for Substructure under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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		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	2000.00	188.47	376940.00
2	192014	Hard rock (blasting prohibited)	cum	200.00	560.80	112160.00
3	192030	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40 mm nominal size, in foundation and floors, retaining walls of bridges including mechanical mixing, vibrating, pumping and bailing out water where ever required with all materials and labour complete but excluding the cost of cement and shuttering as per drawings and technical specifications as directed by Engineer	cum	200.00	1330.71	266142.00
4	192050	Providing and laying in position machine mixed, machine vibrated and machine batched Design Mix Cement Concrete M20 grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in Abutment, pier, wing walls and return walls of Mass cement concrete above RCC raft Including finishing complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra	cum	100.00	1622.40	162240.00
5	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	600.00	1622.40	973440.00
6	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	1622.40	1297920.00
7	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	2000.00	86.15	172300.00
					Total	3361142.00
Schedule	Schedule C-Execution of all work as per schedule					
Item- 3	Plain Cement Concrete under SERUSSOR - 2010					

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S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		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 :				
1	031051	All works upto Plinth level	cum	8720.00	1754.79	15301768.80
2	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	80.00	1866.36	149308.80
		Centering and shuttering including strutting, propping etc. and removal of form work for :				
3	031061	Foundations, footings, bases of columns	Sqm	25500.00	129.28	3296640.00
		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)				
4	032032	in ash pit stones, platform coping stones etc.	cum	600.00	2339.23	1403538.00
5	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	1000.00	72.84	72840.00
					Total	20224095.60
Schedule	Schedule D-Execution of all work as per schedule					
Item- 4	Misc. Bridge Work & Supply of Material under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	221060	Providing and laying Pitching with stone boulders weighing not less than 35 kg each with the voids filled with cement sand mortar 1:4 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	100.00	1398.13	139813.00
2	222160	Providing weep holes by making suitable opening or drilling in existing Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure complete	Metre	200.00	283.54	56708.00
3	222280	Supplying, spreading and filling coarse sand (No cohesive materials to be used) of approved quality including watering and ramming in foundation, plinth, behind the abutment, wing wall, retaining wall in layers not exceeding 150mm thick including its compaction as per direction of Engineer-in-charge. The rate includes all lead, lift, ascent, descent, crossing of Railway line, etc. complete with contractor's labour, materials, tools and plant	cum	500.00	631.72	315860.00
4	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	2000.00	147.85	295700.00

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					Total	808081.00
Schedule	Schedule E-Execution of all work as per schedule					
Item- 5	Supply of Portland Slag Cement under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of portland slag cement from reputed manufacturer conforming to IS 455 with latest correction slips, including all handling, loading, unloading, lead, lift, descent, ascent, transportation storage at site etc. complete.	MT	6360.00	7175.00	45633000.00
					Total	45633000.00
Schedule	Schedule F-Execution of all work as per schedule					
Item- 6	Supply of Steel Reinforcement under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
1	045016	Thermo-Mechanically Treated bars	Kg	473000.00	48.41	22897930.00
					Total	22897930.00
Schedule	Schedule G-Execution of all work as per schedule					
Item- 7	Misc. Work under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Providing literate semi skilled labour assisting survey, soil testing and other Misc. works during execution of work.	Day	900.00	328.00	295200.00
2	2	Providing and laying tactile tile (for vision imaired person as per standered) of size 300 x 300. The rate is inclusive of GST.	Sqm	800.00	2290.82	1832656.00
3	3	Supplying , providing, laying & fixing 5mm thick concrete canvas (flexible concrete impregnated fabric that hardness when hydrated to form thin, durable water proof and fire resistance concrete layer within 24 hrs). For protection of slope of embankment and construction of drain etc. complete in all respect and as per Engineer-in-charge at site.	Sqm	100.00	3369.19	336919.00
4	4	Rail piling with contractor's equipments by the side of track for track protection or elsewhere as directed with Railways rails, driving of pile is to be done as per the direction of Engineer - in - Charge at site. The rate is inclusive all labour, tools and machinery as required, lead, lift and rehandling of Rails at site, Rails will be provided by Railways and to be transported by the contractor at their cost.	Metre	3000.00	520.98	1562940.00
5	5	Pilling, carrying to site of work, supplying, fabrication and installation of bullah piles of average normal dia 5" to 7" measured 1/3 from thicker end 5.00m to 6.00m long and painting of two coats by coal tar on exposed portion of bullah (max. 4m) from ground level including quarry dust to make new slope (quarry dust to be supplied by Railway if required) as per requirement to prevent collapse of side slope and jungle cutting from berm to toe of bank as per as required including all lead, lift, tools and plants and removal and to retain all types of earth. The payment shall be made as per actual numbers of bulla used in meter decided by Engineer- in- charge depending upon site condition.	RM	1000.00	334.75	334750.00

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6	6	Construction of Precast RCC Segmental Box with RCC M-40 Design mix cement concrete with 20mm crushed stone aggregate including formwork,shuttering,admixtures, satging, mixing, placing, vibrating, materials including cement etc. complete as directed by Engineer-in-charge or his authorised representative at site (Excluding cost of reinforcementsteel but including cost of cement).	cum	250.00	13169.00	3292250.00
7	7	Placement of Precast RCC segmental box with the help of road craneat desired location carefully by pulling method,during trafic & power withall contractors , labour, tools & materials, crane machinery, preparationof surface as directed by Engineer including Rly's 32mm dia rods & 1 200mm long in holes, filling of joints by epoxy mortar & laying of required sand as per approved drawing including the cost of epoxy & sand & cutting of lifting hooks after placing of bas e slabs.	MT	500.00	4517.00	2258500.00
8	8	Air pushing RCC box making all necessary arrangement of sufficient number of jacks, pump, pipes and consumables like hydraulic oil etc arrangements for electricity, generator minimum 30KVA arrangement for smooth pushing work, if any, together with all labour and material. The rate includes the cost of operating the jack, protection of track for any variation in the track other protections geometry, stablising the earth using bentonite or other protection. Necessary arrangements like gunny bags filled with sand shall be made to deal with any unexpected requirements. The contractor's has utilise the thurst bed/ auxillary bed prepared for the purpose of pushing as per the direction of the Engineer-in- charge, No additional payment shall be made for skilled or unskilled labour used in this item. The rate includes the cost of design of thurst/ auxillary bed, the payment for construction of thurst bed, gunny cement bags fill with sand/ morrum and RCC box shall be made under relvent USSOR/NS items separately. The design of thurst bed shall be finalised only after the approval of Engineer-in-Charge. Note- This item is for air pushing of box only. Casting of LHS box will be paid under relevant Item.	Running Metre	20.00	40930.50	818610.00
9	9	Supplying and fixing Bituminous drum sheet walling to Bullah pile with nailing as directed by Engineer-in-Charge at site for guarding of slip of earth or quarry dust. The rate is includes supplying of necessary material and fittings like nails etc to hold the wall in proper position. The rate includes all labour, equipments with all lead, lift (ascent,decent), crossing of Railway lines, nails etc. complete.	Sqm	500.00	133.14	66570.00

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10	10	Pre cast RCC slab M-25 or approved design mix under box segment excl. cost of cement & steel as per design & drawing , approved by Railway with contractor's graded hard stone chips of size 20mm & below (granite , basalt, black trap,) aggregate of approved quality and contractor,s sand of approved quality including contractor's all materials, steel form work tools & plants with all lead and lift, loading , unloading, all taxes, royalty etc complete in all respect but excluding cost of cement and steel as per drawing and as per instruction of Engineer-in- charge. Cost of cement and steel will be paid separately as per consumption. Note: (1) 50% of the rate including cement and steel will be retain & released after sucessful launching of the box. Cost of launching will be paid in separately. Concrete to be produced by automatic batching plant. (4)Automatic Concrete cube compressive testing machine to be installed at site for testing compressive strength of cube.	cum	40.00	3221.05	128842.00
11	11	Conducting CBR test on the ground and on the top of layer as decided by the Engineer- in- Charge by suitable method and submission of test reports. The work to be done under the supervision of Railway Officials. The work to be executed by means of dynamic cone penetration method as per ASTM D 6591: 09 and IRC /37/0212. The rate is including all taxes GST, royalty, lead, lift, descent, ascent, road taxes etc. The reports shall be submitted in duplicate.	Each Test	280.00	2312.80	647584.00
12	12	Conducting INSITU measurements of deformation modulus (EV2) of the natural ground, compacted layer of embankment, over blanket layer etc. as per the direction of Engineer in charge. The test shall be done as per code specified. The rate is including all taxes, GST, royalty, lead, lift, descent, ascent, road taxes etc. The reports shall be submitted in duplicate.	Each Test	35.00	40474.00	1416590.00
13	13	Conducting undrained cohesion of soil (CU) test for the soil on the natural ground, compacted layer of embankment, blanket prepared formation as per the direction of Engineer in charge and submission of reports base don the soil test done. The test shall be done as per IS code . The rate is including all taxes GST, royalty, lead, lift, descent, ascent, road taxes etc. The reports shall be submitted in duplicate.	Each Test	220.00	3469.20	763224.00
14	14	Preparation for mix for the blanket materials to suit the conditions of blanket as per RDSO guidelines and specification for G: 0014 (guidelines and specification for design for heavy axle load). The mixing to be done to satisfy the criteria for minimum CBR value of 25, minimum EV2 of 100MPa, CU more than 7, CC between 1 & 3, los angeles abrasion value less than 40. The mix shall be done for the samples with 20 mm down crushed aggregate, 10mm down crushed aggregate, sand and moorum collected from the sites between Chandil to Burnpur. The rate is including all taxes GST, royalty, lead, lift, descent, ascent, road taxes etc. The reports shall be submitted in duplicate.	Each Test	220.00	5504.66	1211025.20
					Total	14965660.20
Schedule	Schedule H-Execution of all work as per schedule					
Item- 8	Earthwork & Building Work under SERUSSOR - 2010					

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S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in				
1	011011	All kinds of soils	cum	5700.00	87.81	500517.00
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	5700.00	9.40	53580.00
3	012040	Filling, watering and ramming earth in 15 cm layers in floors and foundations with surplus earth from foundations including 50m lead and 1.5m lift	cum	1000.00	20.10	20100.00
4	012050	Supplying and filling sand in plinth and under floors including watering, ramming, consolidating and dressing complete	cum	1660.00	389.08	645872.80
					Total	1220069.80
Schedule	Schedule I-Execution of all work as per schedule					
Item- 9	Plain Cement Concrete under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level :				
1	031011	1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size)	cum	1050.00	1593.12	1672776.00
		Providing and laying cement concrete 1:2:4 in damp-proof course (1 cement : 2 sand : 4 graded stone aggregate 12.5mm nominal size - excluding the cost of cement and including providing, fixing and removal of forms.				
2	032051	25mm thick	Sqm	80.00	89.24	7139.20
					Total	1679915.20
Schedule	Schedule J-Execution of all work as per schedule					
Item- 10	Reinforced Cement Concrete under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		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				
1	041011	All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc.	cum	480.00	2123.57	1019313.60
2	041012	All work in buildings above plinth level upto floor two level.	cum	1810.00	2363.49	4277916.90
		Centering and shuttering including strutting, propping etc. and removal of form for :				

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3	042011	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	800.00	128.80	103040.00
4	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	1100.00	205.20	225720.00
5	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	725.00	180.45	130826.25
6	042015	Columns, pillars, , posts and struts	Sqm	500.00	266.90	133450.00
					Total	5890266.75
Schedule	Schedule K-Execution of all work as per schedule					
Item- 11	Brick Work under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in :				
1	051015	Cement mortar 1:6 (1 cement : 6 fine sand)	cum	300.00	1939.88	581964.00
		Brickwork with clay fly ash FPS bricks of class designation 75 in superstructure above plinth level upto floor two level. In:				
2	055076	Cement mortar 1:6 (1 cement: 6 coarse sand).	cum	725.00	2384.42	1728704.50
					Total	2310668.50
Schedule	Schedule L-Execution of all work as per schedule					
Item- 12	Wood, Steel & Aluminium Work under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		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				
1	072151	35mm thick including ISI marked stainless steel butt hinges with necessary screws	Sqm	145.00	1173.31	170129.95
		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				
2	074232	Fixed to opening/ wooden frames with rawl plugs screws etc.	Kg	12450.00	69.56	866022.00
3	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	310.00	411.88	127682.80
4	078140	Providing and fixing to existing door frames 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers. M.S. frame covered with 5mm thick heat moulded PVC Foam sheet 'C channel as per drawing given in IR Standard Specifications complete in all respect	Sqm	90.00	2670.95	240385.50

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		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	47500.00	72.84	3459900.00
6	081032	In flats, plates , round or square bars	Kg	26000.00	70.86	1842360.00
7	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	40.00	2652.82	106112.80
		Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required				
8	081412	In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works	Kg	1000.00	73.68	73680.00
		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	082012	For openable/sliding portions and fixing hinges / pivots, PVC/ neoprene gasket required and making provision for fixing of fittings. (Fittings shall be paid for separately)	Kg	2770.00	436.46	1208994.20
		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	082032	With float/frosted glass panes of 5.5mm thickness (weight not less than 13.75 kg/sqm)	Sqm	420.00	914.76	384199.20
					Total	8479466.45
Schedule	Schedule M-Execution of all work as per schedule					
Item- 13	Flooring Work under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		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 :				
1	091032	Flat brick	Sqm	1500.00	152.35	228525.00

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		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				
2	092012	40mm thick with 20mm nominal size stone aggregate	Sqm	150.00	110.34	16551.00
		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 :				
3	094062	300mm x 300mm x 30mm thick	Sqm	4600.00	549.12	2525952.00
		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				
4	095012	200x300 mm	Sqm	1960.00	580.16	1137113.60
		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				
5	095026	Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm	Sqm	4910.00	917.07	4502813.70
		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				
6	096071	20mm thick	Sqm	2500.00	917.05	2292625.00
		Supplying and laying interlocking pre-cast CC block pavers of approved design factory manufactured of specified grade cement concrete on passenger platform, foot paths, circulating area etc. including setting in position over 25mm thick bedding layer of fine sand, filling the joints with fine sand, leveling including compaction as per IS:15658				
7	098022	80mm thick blocks of M35 grade for medium traffic	Sqm	15000.00	702.23	10533450.00
		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				

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8	099033	Granite Black. Area of slab over 0.2 Sqm but upto 0.5 Sqm	Sqm	10.00	2507.10	25071.00
9	099035	Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger	Sqm	52.00	3080.05	160162.60
10	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	3750.00	660.47	2476762.50
					Total	23899026.40
Schedule	Schedule N-Execution of all work as per schedule					
Item- 14	Finishing Masonary, Pointing, Polishing & Varnishing Work under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		12 mm cement plaster of mix -				
1	111012	1:6 (1cement: 6fine sand)	Sqm	10650.00	55.63	592459.50
		15 mm cement plaster on the rough side of single or half brick wall of mix -				
2	111022	1:6 (1cement: 6 fine sand)	Sqm	12400.00	63.82	791368.00
3	111180	Neat cement punning	Sqm	500.00	11.76	5880.00
4	112040	Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete	Sqm	2400.00	66.58	159792.00
		White washing with lime to give an even shade				
5	115011	New work (three or more coats)	Sqm	2500.00	9.16	22900.00
6	115050	Distempering two or more coats on new work with 1st quality acrylic washable distemper (ready mixed) of approved manufacturer and of required shade and colour complete as per manufacturer's specification	Sqm	11900.00	31.90	379610.00
7	115060	Applying one coat of cement primer of approved brand and manufacture on wall surface	Sqm	11900.00	21.89	260491.00
8	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	14600.00	36.35	530710.00
		Applying Priming Coat :				
9	121013	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanized iron/steel works	Sqm	1700.00	16.07	27319.00
10	121170	Painting two coats (excluding priming coat) with white or green ready mixed paint of approved quality, on steel or wood work	Sqm	1700.00	41.98	71366.00

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		Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work				
11	131062	PN-16 Pipe, 20mm OD (SDR-7.4)	Metre	240.00	105.00	25200.00
12	131063	PN-16 Pipe, 25mm OD (SDR-7.4)	Metre	100.00	146.41	14641.00
13	131066	PN-16 Pipe, 50mm OD (SDR-7.4)	Metre	400.00	448.52	179408.00
		Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. External Work				
14	131155	40 mm dia. nominal bore	Metre	850.00	283.71	241153.50
15	131157	65 mm dia. nominal bore	Metre	300.00	446.52	133956.00
					Total	3436254.00
Schedule	Schedule O-Execution of all work as per schedule					
Item- 15	Drainage & Sewerage, Sanitary Installations Work under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required				
1	151011	White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests	Each	41.00	2687.46	110185.86
		Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10litre low level white, P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required				
2	151021	W.C. pan with ISI marked white solid plastic seat and lid	Each	25.00	2570.15	64253.75
		Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern , with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required				
3	151041	One urinal basin with 5litre white P.V.C. automatic flushing cistern	Each	20.00	2386.80	47736.00
		Providing and fixing wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required				
4	151072	white vitreous china wash basin size 630x450mm with a single 15mm C.P. brass pillar taps	Each	21.00	1500.37	31507.77
		Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink without drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required				

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5	152031	610x510mm bowl depth 200mm	Each	11.00	3524.92	38774.12
6	154010	Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete	Metre	230.00	226.92	52191.60
7	154100	Providing and fixing 110 mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete	Each	60.00	83.35	5001.00
		Drilling of bore well for specified depth in all types of soil and rock mechanically with all contractor's tools, plants, material and labour up to 75 meters				
8	171521	For 150 mm dia	Metre	1600.00	205.70	329120.00
9	171522	For 200 mm dia	Metre	1000.00	432.37	432370.00
10	171525	Extra over 75m drilling for 200mm dia	Metre	400.00	86.47	34588.00
		Providing supplying, lowering and fixing in bore G.I.B Class perforated casing pipe 6 mm thickness up to specified depth below ground level with all contractor's tools, plants, material and labour etc. complete				
11	171533	200 mm internal pipe	Metre	200.00	1432.33	286466.00
12	171690	Providing & applying Pre-Construction Anti-Termite treatment to proposed structure, with application of Imidacloprid 30.5% SC @ 0.075% concentration mixed with water in ratio of 1:475, as per detailed specifications given in Indian Railways Standard Specifications, so as to create a chemical barrier below and around the structure by an approved agency. (Plinth Area/Basement floor area shall be considered for Payment)	Sqm	3000.00	77.28	231840.00
13	172020	Supplying, erecting and fixing precast concrete reinforced bench with back rest. Bench shall consist of 2 nos. L shaped base support in natural cement colour of thickness 100 mm, back height 1000 mm, front height 450 mm, base width 620 mm and 5 nos. reinforced concrete planks in red colour and size of 1500 x 100 x 50mm and 1 no. reinforced concrete plank of 150 x 200 x 50mm; manufactured by using M-30 grade concrete & reinforced suitably; all parts to be joined with galvanised nuts and bolts of suitable size. All bolts to be sealed after assembly. Complete job to be done as per directions of Engineer Incharge	Each	50.00	8602.49	430124.50
					Total	2094158.60
Schedule	Schedule P-Execution of all work as per schedule					
Item- 16	Dismantling Work under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Demolishing plain cement concrete including disposal of material within 50m lead				
1	181021	1:2:4 or richer mix with max. 20 mm coarse aggregate	cum	1000.00	451.85	451850.00
2	181022	Mix leaner than 1:2:4 with coarse aggregate larger than 20mm	cum	600.00	276.70	166020.00
3	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	664.95	132990.00
4	181060	Extra for scraping, cleaning, straightening reinforcement from R.C.C. or R.B. work	Kg	3000.00	1.76	5280.00

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		Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50m lead				
5	182013	In cement mortar	cum	3000.00	376.48	1129440.00
		Dismantling dressed stone work, ashlar face stone work, marble work, including stacking of serviceable and disposal of unserviceable material within 50m lead				
6	182042	In cement mortar	cum	1500.00	526.65	789975.00
					Total	2675555.00
Schedule	Schedule Q-Execution of all work as per schedule					
Item- 17	Road Work under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	231010	Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50 metres	Sqm	12000.00	38.16	457920.00
		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.				
2	231041	Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size	cum	2200.00	1488.61	3274942.00
3	231043	Base course with 53mm to 22.4mm size including stone screening 11.2mm size	cum	1210.00	1213.62	1468480.20
		Providing and laying bitumen penetration macadam with hard stone aggregate, with bitumen of suitable penetration grade including required key aggregate as specified, spreading coarse aggregate with the help of self propelled / tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete including consolidation with road roller of minimum 8 to 10 tonne capacity				
4	231061	For 50mm compacted thickness using 6cum coarse aggregate of size 50-20mm graded, 1.5cum key aggregate of size 12.5mm graded, and 500kg paving asphalt 80/ 100 per 100sqm	Sqm	4000.00	258.20	1032800.00
		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				
5	233012	On bituminous surface @ 0.25kg/ sqm	Sqm	4000.00	15.04	60160.00
		Providing and laying 2cm premix carpet surfacing with 1.8cum and 0.90cum of stone chippings of 13.2mm size and 11.2mm size respectively and 144 kg of hot bitumen per 100 sqm over a tack coat including consolidation with road roller of 6 to 8 tonne capacity etc. complete (tack coat to be paid separately)				
6	233021	With paving asphalt 80/ 100 heated and then mixed with solvent at the rate of 70grams per kg. of asphalt	Sqm	4000.00	109.94	439760.00

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7	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	4000.00	44.02	176080.00
8	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	2020.00	1551.77	3134575.40
					Total	10044717.60
Schedule	Schedule R-Execution of all work as per schedule					
Item- 18	Supply of Materials under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	252020	Moorum	cum	10000.00	373.75	3737500.00
2	252390	Stone Boulder Weighing minimum 35 Kg Each	cum	2100.00	498.33	1046493.00
3	257050	Polyethylene Vinyl Chloride water storage tank with cover and suitable locking arrangement	Litre	20000.00	7.33	146600.00
4	258100	India Mark-II pump as per IS - 9301 complete in all respect including hand pump, cylinder, 6 no. connecting rods of approved quality	Each	16.00	7787.42	124598.72
5	258140	C.I. cylinder with brass liner complete with gun metal plunger with leather/mitryl rubber lower valve and plunger rod complete as per ISS-9301-90. (20-50 m depth)	Each	16.00	709.17	11346.72
					Total	5066538.44
Schedule	Schedule S-Execution of all work as per schedule					
Item- 19	Supply of Ballast under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supplying and stacking of Machine crushed hard stone ballast of 50mm gauge of approved quality and conforming to R.D.S.O. latest specification (annexed) along the cess of the alignment of the section as directed by Engineer-in-charge of the work or his representative at site. The rate includes all cost of materials, loading, unloading, handling, transportation and royalty, octroi, sales tax, and other taxes imposed by Central/State Govt. and local bodies including all other incidental charges with all lead, lift, crossing Rly. lines, if required, and levelling of stacking ground. The stacking ground will be certified by the Engineer- in -charge of the work.	cum	91100.00	1965.83	179087113.00
					Total	179087113.00
Schedule	Schedule T-Execution of all work as per schedule					
Item- 20	P. Way Linking Work under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Supplying, fitting, fixing and erecting at site including foundation work, standered type lifting barrier gate (8 mtrs. Long) to RDSO Drg. No- SA-8836, with provision of boom locking to S.E.Railway Drg. No-SA-9964 etc. incl. intrelocking frame ground tyoe Drg. No-SA-922 and supplying and assembling different Parts related to this work such as which RDSO's Drg. No- SA- 8132 A/M Alt.I. Foundation 'A' type wheels, horizontal vertical rope wheels wire adjusting screws, stake pully, F type lock with keys, wire rope of required length, lamp signal, cranked roller guide, compensators, G.I. pipe lines of required length and all other components as per site requirment, complete with all other required accessories and other allied works as directed by Engineer - in- charge at site including all lead, lift crossing liens etc. complete with contractor's materials except cement (Cement will be separately paid).	Set	15.00	258032.96	3870494.40
2	2	Inserting of 60kg/ 52Kg Rails including Dismantling of Existing Rail of 52/60 Kg and clearing removed Rails from all infringments to moving direction for Rails more than 40m length.	Per Metre of Rail	74000.00	32.84	2430160.00
3	3	Execution of precast C.C.block with M30 concrete to paver/ edgerestraint of different size and shape as required as directed by the Engineer-in-Charge as per Railway's approved drawin. The cost includes contractor's all materials including cement (Gr.43/45), sand, stone aggregates (20mm below), labour ,tools,plants etc. complete. The rate also includes dressing of road surface before placing the slab, provision of contractor's sand,gravel, as required and levelling the surface after planning and jamming the joints with contractor's sand. The rate includes all lead in transportation blocks work site. (i) 150mm thick Paver.	Sqm	1550.00	1133.78	1757359.00
4	4	Laying of point and crossing assembly by dismantling the existing track including straight track pt. and Xing etc. at desired location of insertion in traffic block, if required with the help of contractor's labour and tools, stacking the dismantled component in countable manner at approved location within the same station yard including all lead, lift etc. complete as per the direction of Engineer- in- Charge or his authorised representaive, assisting T-28 machine in carrying the assembled point and crossing layout nearly up to the place of insertion and laying the new Turnout consisting of packing up carrying, laying and aligning the assembled new point and crossing assembly and fixing in the position and lifting and regarding the approches of Pt. and Xing (Rly. will provide T-28 machine, operator and fuel, etc without charge) For 1 in 12 Pt. & Xing.	Set	18.00	27326.92	491884.56
5	5	Laying of SEJ as per Rly's standered as directed by Engineer in - Charge with picking of slacks between the two consecutive packing. The rate includes cutting, removal & Transportation of existing track including transportation, loading, unloading of Rlys SEJ from Rly's store depot all with lead, lift, ascent, descent, materials, tools & plant, all labour etc. complete.	Set	25.00	5082.98	127074.50

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6	6	Installation of In-situ Glued Joint for 52/60 kg Rail as per RDSO drawing no. T-5361/T-5843 (6.5m. Long) conforming to the specifications as detailed in the "Manual for Glued insulated Rail Joint (Revised-1998)" with latest correction slip issued by Ministry of Railways, RDSO/Lucknow and in accordance with the process sheet of South Eastern Railway, with supply of all fittings and accessories, such as:- 1. Standard Fish Plate 950mm long as per RDSO's drawing. 2. HTS Bolts & Nuts 3. Purchased washers. 4. Insulating Brushes. 5. Insulating Channels. 6. 10mm thick End Post. 7. Araldite 8. Hardener 9. Glass cloth carrier with all materials & fixtures for cleaning and assembling excluding Rails. (Including fabrication of Glued Joint at site on running track under traffic block.)	Per Joint	40.00	16963.19	678527.60
7	7	Insertion of glued Rail joints at the required location as per direction of Engineer- in- Charge. The rate inclusive labour charge for handling the glued joint in depot, handling charge for testing of glued joint, loading, unloading of glued joints and transportation of the same from Railway store to work site replacement of glued joint if required, renewal and reinsertion of all types of fitting, cutting the Rails in the running track to make room for insertion of glued joint, transportation of released rail pieces to the nearest Rly's store, packing and aligning of the track to make it fit for traffic after insertion of glued joint. The glued will be supplied by the Rly at the nearby Railway depot free of cost. The contractor shall make the track fit for traffic after insertion of glued joint as per the Indian Railway standard. The tenderer shall follow the safety rules laid down in the GCC-2019 of S.E. Railway during working. The rate also includes all taxes men and all material except the glued joint. Payment for welding will be paid separately.	Numbers	40.00	1060.37	42414.80
8	8	Fabrication and erecting of buffer stop as per drawing No- CE's 23772 with Railway's 90R/52 kg Rails fitting and wooden sleeper to the assembly embedded in M-10 CC will concrete will constructed with contractor's chip, cement sand etc. The rate includes cutting of Rails of required length, bending of rail as per Drg. Transportation of Rail sleepers, fitting etc. from any Railway store depot in division to work site, fixing of wooden sleeper, fish plate, nuts and bolts, cleat, white wash of concrete structure and painting of wood sleeper with special paint, earth work in foundation etc. including all taxes, levies, labour charges, GST all complete.	Numbers	6.00	61549.22	369295.32
9	9	Labour charge for each round of 1st consolidation through packing of Pt.& Xing in running/non running track i.e. for attending track after laying in initial packing within suitable interval as per IRPWM or as directed by Engineer- in- charge at site (1) 1 in 12 Turn out. Note- unit set means per set per round.	Set	37.00	11585.31	428656.47
10	10	Labour charge for each round of 1st consolidation through packing of Pt.& Xing in running/non running track i.e. for attending track after laying in initial packing within suitable interval as per IRPWM or as directed by Engineer- in- charge at site (1) 1 in 8 1/2 Turn out. Note- unit set means per set per round.	Set	1.00	8073.95	8073.95

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11	11	Labour charge for each round of 1st consolidation through packing of Pt.& Xing in running/non running track i.e. for attending track after laying in initial packing within suitable interval as per IRPWM or as directed by Engineer- in- charge at site (1) Derailing Switch Note- unit set means per set per round.	Set	1.00	2846.90	2846.90
12	12	Labour charge for each round of 2nd to 4th consolidation through packing of Pt.& Xing in running/non running track i.e. for attending track after laying in initial packing within suitable interval as per IRPWM or as directed by Engineer- in-charge at site (1) 1 in12 Turn out(3 rounds). Note- unit set means per set per round.	Set	111.00	7403.52	821790.72
13	13	Labour charge for each round of 2nd to 4th consolidation through packing of Pt.& Xing in running/non running track i.e. for attending track after laying in initial packing within suitable interval as per IRPWM or as directed by Engineer- in-charge at site (II) 1 in8 1/2 Turn out(3 rounds). Note- unit set means per set per round.	Set	3.00	5598.58	16795.74
14	14	Labour charge for each round of 2nd to 4th consolidation through packing of Pt.& Xing in running/non running track i.e. for attending track after laying in initial packing within suitable interval as per IRPWM or as directed by Engineer- in-charge at site (III) Derailing Switch Turn out(3 rounds). Note- unit set means per set per round.	Set	3.00	1974.87	5924.61
15	15	Manufacturing and supplying of light weight self propelled , insulated inspection motor trolley for broad gauge complete with umbrella and accessories. The trolley is to be provided with foot rest with chequered plate flooring. The trolley is to be fitted with 04 nos brake brackets to develop insulation between wheel set and frame and to prevent the dust etc. to enter in to ballbearing. The trolley frame is to be manufactured out of 47 mm square aluminium pipe of heavy gauge with planketing system is to be fabricated out of high quality Teak/Sal wood. The trolley should be fitted with efficient breaking system. The trolley frame should be fitted with 6 nos of handles for easy handling, loading and unloading of trolley on the track. The trolley has to be got approved by Engineer- in- Charge of the work after a few trial runs. It should be able to run at 40 Km/h. The motor trolley has to be procured from RDSO approved firm like KELVIN etc.	Numbers	1.00	151637.50	151637.50
16	16	Fabrication and fixing LWR reference posts, gate-posts, curve-posts etc. made of Railway's released rails, as per the direction of Engineer-in-charge. The rate includes cutting of rail to required length, transportation, painting the rail surface and painting of letters of level crossing no., Kilometer no., as required etc. The rate also includes all taxes, tools and plants, labour and all other incidental charges. The Railway will supply unserviceable rails required for this work, free of cost, at SSE(C)/P.Way's depot.	Numbers	310.00	570.61	176889.10

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17	17	Manufacturing and supplying and fixing reinforced cement concrete posts M-30 grade concrete i.e. kilometer post, boundary post, gradient post, fouling mark etc. as per drawing .The rate includes cost of contractor's cement, reinforcement, steel, HTS wire, hard stone machine crushed aggregate of 20 mm and below, sand of approved quality, transportation at site, all labour, tools, plants, shuttering, curing, stressing, fixing, painting, lettering, all taxes, and levies, etc. complete.	Each	210.00	1485.01	311852.10
18	18	Manufacturing and supply of W/L and CEE/FAA (in Devnagri script) marked whistle board, caution board, Termination board of Size IRPWM, made out of 2mm thick alluminium alloy sheet conforming to IS-736 with black support of MS angle 25x25x3 mm. The entire face of board shall be covered with yellow high intensity encapsulated retrorefeective sheeting with HLVA process the letter shall be cut out of back high intensity encapsulated sheeting and provided on the base sheet with HLVA process. The board shall be fixed with MS angle of suitable size, payment for MS angle will be made seperately.	Numbers	40.00	15152.00	606080.00
19	19	Manufacturing and supply of Speed indicator board with size of 1000 mm equilateral tringle board etc. made out of 2mm thick alluminium alloy sheet conforming to IS-736 with back support of MS angle 25x25x3 mm. The entire face of board shall be covered with yellow high intensity encapsulated retrorefeective sheeting with HLVA process the speed figure shall be cut out of black high intensity encapsulated sheeting and provided on the base sheet with HLVA process. The speed figure will be supplied by Engineer- in- Charge. The board shall be fixed with MS angle of suitable size, payment for MS angle will be made seperately.	Numbers	10.00	11575.89	115758.90
20	20	Manufacturing and supply of Bump indicator board with size of 900 mm equilateral tringle board etc. made out of 2mm thick alluminium alloy sheet conforming to IS-736 with back support of MS angle 25x25x3 mm. The entire face of board shall be covered with red and white high intensity encapsulated retrorefeective sheeting with sign of speed breaker duly cut out of scotchall flim provided on the base sheet with HLVA process.The board shall be fixed with MS angle of suitable size, payment for MS angle will be made seperately.	Numbers	20.00	10495.04	209900.80
21	21	Manufacturing, supply & fixing of LC board made out of 02mm thick of aluminum sheet conforming to IS 736 in size 900mm equilateral trangle with with back support of MS angle 25x25x3. The entire face of sign board shall be covered with white high intensity retro reflective encapsulated retro reflective sheeting awith HLVA lamp vacume applicator with sign of LC gate cut out of scotchall film and provided on the base sheet with HLVA process. The board shall be fixed with MS angle of suitable size, payment for M.S.Angle will be made seperately.	Numbers	20.00	10495.04	209900.80
22	22	Collecting and stacking of released P.way material such as rail, all type of sleepers, P.way fittings and other materials from any place along the section / alignment to the nominated place with lead up to 500m.	MT	6000.00	111.52	669120.00

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23	23	Unloading of rail (singal to three/ ten to twenty rail pannel) from Railway BFRs on the cess along the track in block working and shifting and carrying the same to the site of work within free lead of 30m by diplorry/Rail dolly/ Manually or by any other approved means running lines/non running lines/on the cess with contractor's all labour, tools, machinary. Note- Painting & butting, rail changeing to be paid sepreatly vide revelent schedule. Note- Contractor take utmost safety measures during shifting of rail/rail pannel laterally, care is to be taken while neogiating the OHE mast.	Per Track Metre	37000.00	66.41	2457170.00
24	24	Manufacturing, supplying and fixingof small board such as curve/ LWR/SEJ/Bridge /Other board as per requirement with 14SWG MS sheet, painting and lettering with porcelain vitreous enamel paint as directed by the Engineer- in- Charge. The board should be fixed to MS angle of suitable size. The payment for which will be made seperately. The size and detail of the board shall be furnished by Engineer- in -Charge.	Sqm	76.00	1342.97	102065.72
25	25	Maintenance of newly laid BG P.way track including Pt.& crossing, derailing switch etc for 6 months from the date of opening of the section to traffic to keep the tracksafe to Railway standard and to the the satisfaction of Engineer -in- Charge including all Maintenance operation s as prescribed in the Indian Railway P.Way Manual complete as directed by Engineer-in-Charge.(Total Qty= ETKM x6 month) Note -Here unit Km. means ETKM per month.	Kilometre	240.00	12310.42	2954500.80
26	26	Providing security guard for safeguarding of railway track round the clock. Note here unit Km means Per Km per month.	Kilometre	240.00	10455.37	2509288.80
27	27	Surface dressing/levelling the undulation on the formation formed due to the movement of the vehicle or otherwise ad rolling/ramming to prepare even surface on top of formation with proper slope on both sides of centre line of track before spreding of balast as directed by the enginer - in- harge with al contractors labours tools and plant etc as required complete.	Sqm	314000.00	14.78	4640920.00
28	28	Execution of precast C. C. blocks with M30 concrete to pavers/edge restraint of different sizes and shape as required as directed by the Engineer-in-charge as per Railway's approved drawing. The cost includes contractor's all materials including cement (Gr.43/53), sand, stone aggregates (20mm below), labour, tools and plants etc. complete. The rate also includes dressing of road surface, before placing the slab,provision of contractor's sand and gravel, as required, and levelling the surface after planning the slab and jamming the joint with contractor's sand. The rate includes all lead in transportation blocks to work site-Edge restraints (340 x 860 x 75).	Numbers	1200.00	190.14	228168.00

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29	29	Manufacturing and fixing of standard check rail of 7.5 m long (2 nos) by machining for level crossing as per RDSO drawing on PSC Sleeper , drilling/making of holes in suitable rail section for fixing the fittings etc. The rate also includes dismantling of road surface to insert the check rails and resurfacing the road after fixing the check rails. The rate also includes all tools & plants, handling of rails at site ,labour & incidental charges. Resurfacing by new metal on metallic road surface/concrete to be paid sepreatly vide relevant Schedule.	Set	15.00	9119.13	136786.95
30	30	Cutting 52Kg/60 Kg/90R Rails at site of work with tenderer Rail cutting machine as per the requirement and as per the Direction of Engineer-In-Charge with all lead, lift, consumeables, tools and plants , transportation, labour etc all complete.	Each	6700.00	72.53	485951.00
31	31	Drilling of rail holes of 26.5mm /(20 mmto 32mm dia as per requirement) through 90 UTS/72 UTS /52Kg/90R/60KG Rails with tenderers Rail Drilling machines including all lead lift, consumable, tools and plants , transportation, labour etc all complete.	Each	3112.00	63.03	196149.36
32	32	Unloading of ballast during day/night from any type of Railway wagons directly on the track observing all the safety precaution as per instruction of site in charge. The rate includes leading, spreading, dressing and boxing of ballast as per direction of Engineer in charge at site. Only 60 % of the rate is payable if the ballast is supplied in BOB/BOBY/Hopper type wagons.	cum	40000.00	81.22	3248800.00
33	33	Gas cutting of 52 Kg/90R Second Hand Rails with contractor's necessary Gas cutting equipments, at any location and as directed by Engineer-in-charge at site. The rate includes; all required equipments, materials, labour, taxes, royalty, fuel etc complete. The rate also includes; handing, rehandling of rails for the purpose of cutting.	Each	522.00	48.00	25056.00
34	34	Cutting of Rail flange up to specified height from the bottom of rails as per Railway Drawings to accommodate ERC. This also includes, making of holes of oval shape in check Rails for fixing of bolts.	Metre	355.00	239.09	84876.95
35	35	Dismantling of point & crossing including intermediate portion of track on PSC layout and stacking the released materials with contractor's labour, tools, lead, lift etc. complete, as directed by the Engineer-in-Charge. (i) 1 in 12 points and crossings (52/60 Kg).	Set	6.00	14605.99	87635.94
36	36	Dismantling of point & crossing including intermediate portion of track on PSC layout and stacking the released materials with contractor's labour, tools, lead, lift etc. complete, as directed by the Engineer-in-Charge. (ii) 1 in 8.5 points and crossings (52/60 kg).	Set	4.00	10865.27	43461.08
37	37	Dismantling of point & crossing including intermediate portion of track on PSC layout and stacking the released materials with contractor's labour, tools, lead, lift etc. complete, as directed by the Engineer-in-Charge. (iii) Derailing switch (52/60 Kg).	Set	2.00	3748.13	7496.26

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38	38	Assembling curved switches turnout layout on 60 kg PSC monoblock sleepers (fan shaped layout) for thick web switches/curved switched, stock rail lead including rails, switches and crossing complete manually with contractors labour, tools, tec complete as per the approved drawing outside the Railway track at suitable location in the station yard and as directed by the Engineer or his authorised representative for 1 in 12 points and Xings..Note: i) The Items includes levelling of ground by doing sufficient earthwork & or making staging of wooden sleepers & rails supplied by the railway as to assembled PTS &Xing over levelled ground & or over staging or directed by Engg-in-charge II) The item include proper alignments gauging fixing slide chairs stretcher bar, bearing plates check rails, check blocks, heal blocks fixing crossing tie plates if required complete in all respects. iii) The items also include jointing the rails in switches portions, lead portion & crossing portion by suitable fish bolts. iv) the item also includes lead for carrying rails switches crossing PSC sleepers & other P.way materials up to 100 Mtrs. This item also includes all lift crossings railway lines in carrying from SEE (P.way) godowns in yard to the location of assembling. v) The turnout will consist of total 95 nos of sleeper especially manufactured for such turnout sleeper 01 to 83 Nos are required for main joints & crossing & balance of 13 nos approches and Exist sleeper.	Set	18.00	34110.14	613982.52
39	39	Assembling curved switches turnout layout on 60 kg PSC monoblock sleepers (fan shaped layout) , stock rail lead including rails, switches and crossing complete manually with contractors labour, tools, etc complete as per the approved drawing outside the Railway track at suitable location in the station yard and as directed by the Engineer or his authorised representative for 1 in 8.5 points and Xings.Note: i) The Items includes levelling of ground by doing sufficient earthwork & or making staging of wooden sleepers & rails supplied by the railway as to assembled PTS &Xing over levelled ground & or over staging or directed by Engg-in-charge II) The item include proper alignments gauging fixing slide chairs stretcher bar, bearing plates check rails, check blocks, heal blocks fixing crossing tie plates if required complete in all respects. iii) The items also include jointing the rails in switches portions, lead portion & crossing portion by suitable fish bolts. iv) the item also includes lead for carrying rails switches crossing PSC sleepers & other P.way materials up to 100 Mtrs. This item also includes all lift crossings railway lines in carrying from SEE (P.way) godowns in yard to the location of assembling. v) The turnout will consist of total 95 nos of sleeper especially manufactured for such turnout sleeper 01 to 54 Nos are required for main joints & crossing & balance of 13 nos approach and exist sleeper.	Set	1.00	31719.21	31719.21
40	40	Unloading of 60 kg pre-stressed concrete mono block points and crossings sleepers complete set for fan shaped layout from Railway wagons at required locations by machine indicated by the Engineer in Charge or his authorised representative with all contractor's labours, tools etc and all lead and lift and as directed by the Engineer or his authorised representative. (i) For 1 in 12 points and Xings.	Set	37.00	3779.19	139830.03

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41	41	Unloading of 60 kg pre-stressed concrete mono block points and crossings sleepers complete set for fan shaped layout from Railway wagons at required locations by machine indicated by the Engineer in Charge or his authorised representative with all contractor's labours, tools etc and all lead and lift and as directed by the Engineer or his authorised representative. (ii) For 1 in 8.5 points and Xings.	Set	1.00	2889.89	2889.89
42	42	Laying of B.G. P.Way track in straight & curve over compacted layer of ballast/ on the top of formation, ballasted deck bridges and level crossings to correct alignment, consisting of Rly's 52/60 Kg., ordinary/Special PSC sleepers and necessary Rly's fittings etc., with 1660/km or any sleeper density as directed by Engineer-in-charge, to approved alignment and gauge including handling of rails, sleepers and fittings at site, cutting of rails, drilling fish bolt holes, initial packing to Rly.'s standards etc complete. The rate includes all lead , lift, ascent, descent, Crossing of Railway lines, greasing of inserts, ERCs and liners with contractor's grease (IS-408-1981) (duly approved by Engineer in charge), all tools & plant, all labour , etc complete a s dirtected by the Engineer in charge or his representative. The rate also includes lifting of the track so as to bring it within 75 mm of the design level manually/ by machines on availability of ballast.	Per Track KM	39.30	353682.43	13899719.50
43	43	Laying of 1 in 12 points and crossings (52/60 Kg) and 1 in 8.5 points and crossings (52/60 kg), including intermediate portion of tracks (steel/PSC) layouts to Rly.'s specification in Running/non-running line. The rate includes cutting of rails to required sizes, drilling of holes in rails and chamfering of holes with standard chamfering tools, Jim crowing of rails, proper alignment, gauging, levelling, fixing slide chairs, bearing plates, check blocks, heel blocks, distance blocks etc., fixing Rly.'s gauge tie plates, fixing of one set of points and crossings, lead rails, stretcher bars, switch anchors and any other safety fittings, joints and crossing fittings, initial packing followed by four consolidation packings to Rly's standards etc complete as required and as instructed by the Engineer-in-Charge or his representative. The rate includes greasing of insert, ERCs and liners with contractor's grease (Grease graphite 408 or as approved by Engineer in charge). The rate also includes handling (including crossing of railway lines) of all P.Way materials consisting of rails, crossings, switches, sleepers, turn-out keys and all sorts of fittings etc. at linking site. Laying of 1 in 12 points and crossings (52/60 Kg).	Set	19.00	94926.42	1803601.98

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44	44	Laying of 1 in 12 points and crossings (52/60 Kg) and 1 in 8.5 points and crossings (52/60 kg), including intermediate portion of tracks (steel/PSC) layouts to Rly.'s specification in Running/non-running line. The rate includes cutting of rails to required sizes, drilling of holes in rails and chamfering of holes with standard chamfering tools, Jim crowing of rails, proper alignment, gauging, levelling, fixing slide chairs, bearing plates, check blocks, heel blocks, distance blocks etc., fixing Rly.'s gauge tie plates, fixing of one set of points and crossings, lead rails, stretcher bars, switch anchors and any other safety fittings, joints and crossing fittings, initial packing followed by four consolidation packings to Rly's standards etc complete as required and as instructed by the Engineer-in-Charge or his representative. The rate includes greasing of insert, ERCs and liners with contractor's grease (Grease graphite 408 or as approved by Engineer in charge). The rate also includes handling (including crossing of railway lines) of all P.Way materials consisting of rails, crossings, switches, sleepers, turn-out keys and all sorts of fittings etc. at linking site. Laying of 1 in 8.5 points and crossings (52/60 kg).	Set	1.00	72881.58	72881.58
45	45	Laying Derailing Switches on PSC sleeper lay out, as per Railway's standard drawings, with 52/60 kg. Rails, switches and their fittings over compacted ballast layer already spread, laying and fixing of switches at correct position,initial packing followed by four consolidation packings to Rly's standards, Jim crowing of rails, cutting rails with rail cutting machine to required length, drilling rail holes of required dia. with contractor's rail drilling machine and chamfering of holes with standard chamfering tools, connecting them with Fish plates and bolts after proper greasing the fish plates with contractor's grease of approved quality and oiling the Fish bolts with contractor's oil, fixing all Railway fittings like bearing-plates, plate screws, distance-blocks, stretcher-bars etc. as required to bring the whole assembly to correct alignment and packing to required standard, handling of P.Way materials at site, as directed by the Engineer-in-charge, including all labour, tools & plants etc.	Set	1.00	6297.07	6297.07
46	46	Painting of rails (on web, foot and bottom surface of rail) with contractor's anti- corrosive paint, tools and labour, complete (brand of paints to be approved by Engineer-in-charge). The rate includes scrapping rust etc. from rail followed by one coat of zinc chromate primer followed by two coats of bituminous emulsion with 20% mica.	Per Track Metre	37000.00	64.88	2400560.00
47	47	To carry out pre - tamping, post - tamping and during tamping works during packing of BG track in day/night with Railway's Tie-tamping machine including loop lines in yard, to bring the track to required track standard. The rate includes arranging and providing labour with all tools and equipment required to perform pre- tamping and post tamping work covered by IRPWM, boxing and dresing of ballast to bring it to required profile etc. complete with tenderers labour, tools and plants as required.	Kilometre	79.00	16576.78	1309565.62

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48	48	De-stressing of BG track with tenderer's labour, all equipment, tools and plants, all lead and lift, consumable etc., all complete. Including greasing of ERC and liner as directed by the Engineer-in-charge or his representative grease will be supplied by agency (IS-408-1981), including all labour, tools & plants etc.	Per Track KM	39.30	25337.07	995746.85
49	49	Spreading of ballast in two stages i.e. (a) on the formation before laying the track and (b) in the track and points and crossings, with contractor's labour, with lead up to 500 m and all lifts, as directed by Engineer-in-charge. No extra payment will be made for crossing of railway lines.	cum	91078.00	123.35	11234471.30
50	50	Rolling of ballast with suitable type of mechanical roller to obtain a compact and uniform level surface of ballast spread in about 4.0 m. width symmetrically along the centre line of track including removing and re-distribution of ballast already spread on the formation to obtain a uniform level surface.	RM	39033.00	39.45	1539851.85
51	51	Labour charges for track packing i.e for attending track after laying in initial packing within suitable interval as per IRPWM or as directed by Engineer-in-charge at site. Km means Track Km. (i) 1st Packing.	Kilometre	39.30	84062.90	3303671.97
52	52	Labour charges for track packing i.e for attending track after laying in initial packing within suitable interval as per IRPWM or as directed by Engineer-in-charge at site. Km means Track Km. (ii) 2nd to 4th through packing.	Kilometre	117.90	54534.83	6429656.46
53	53	Arranging and providing trained healthy trolley men for pushing BG push trolley (a team of minimum 6 trolley men per trolley) at a minimum speed of 10 kmph. Note: Here unit Day means Per day per trolley.	Day	365.00	711.44	259675.60
54	54	Providing of barricading with bamboo/casareena/wood vertical post of minimum 100 mm dia erected at every 2m interval projecting at least 1.5 m above ground level and driven firmly inside the ground for about 0.75m and with three horizontal bamboo/casareena member minimum 50mm dia spaced equally including painting the verticals and horizontal red liminus paint / strips at alternative bay of the barricade. Removing the barricades completely when no longer required with all lead, lift etc. complete as required. All labour, materials tools, plants, consumables, taxes, duties etc. barricade will be removed properly of the contractor and hence rate will be inclusive of removal also. Payment will be done for the actual barricading done at site.	Metre	32000.00	104.12	3331840.00
55	55	Manufacturing and supply of light weight, insulated Push trolley BG complete, with umbrella and accessories. The trolley is to be provided with foot rest with chequered plate between wheel set and frame and to prevent the dust etc. to enter into ball bearings. The trolley frame is to be manufactured out of 47mm square aluminium pipe of heavy gauge with planketing system. The planketing system is to be fabricated out of high quality teak/sal wood. The trolley should be fitted with efficient braking system. The trolley frame is to be fitted with 4 nos of handles for easy handling, loading and unloading of trolley on the track. The trolley has to be got approved by Engineer-in-charge of the work after a few trial runs.	Numbers	1.00	60716.46	60716.46

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56	56	Taking out existing P. Way Track and removing, loading, transporting, unloading & stacking at suitable place within a free lead of 30m as directed by the Engineer-in-Charge of the works with contractors all labours, transport, tools and plants etc.complete.	Per Track Metre	1200.00	93.53	112236.00
57	57	Manufacturing, supply and installation of rubberized level crossing pads of approved quality and specification, as Rly. track by suitable clamping arrangements to make a rubberized road. The road surface is to be prepared by using multiple "set" of rubber pads of length 1.20 M each and each set consist of 02 nos. rubber pads placed inside the running rails and 02 nos. outside the running rail on RCC edge beam at the edge to retain the assembly as per approved drawing. The cement & steel for this will be supplied by contractor and is included in the rates. No separate payment shall be made.	Per Track Metre	80.00	118602.28	9488182.40
58	58	Slewing of existing track laterally upto 3.0m to suite alignment with the proposed work. The work have to be executed under traffic block as and when obtained and no extra payment for idle of labour will be paid separately. The rate includes packing of track to make track fit for movement of traffic immediate after cancellation of block.	Per Track Metre	2000.00	556.20	1112400.00
59	59	Painting letter, figure plain up to 150 mm height with tenderes paint of approved quality as and when required and as directed by Engineer-in Charge inclusive of all taxes lavies, manpower, taxes, Royalty etc.	Each	6000.00	3.06	18360.00
					Total	88878620.92
Schedule	Schedule U-Execution of all work as per schedule					
Item- 21	A. T. Welding of Rails under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Conversion of 52 Kg 90 UTS rail from SR/SWR to longer panel on running track by welding of 52/60 Kg rail joint by Alumino Thermic SKV process with automatic thimble technology & single shot crucible including finishing, supply of portion, cost of transportation and other associated equipments complete by road from firm workshop to nearest PWI's stores including insurance and loading at workshop, unloading and stacking will be done by concerned PWI. During transit, Octoroi or any other charges will be done on contractor's account. Rate also includes supervision & supply of welder with RDSO competency certificate for the purpose. Compressed air only be used for welding. Pressure tank will not be used. Note- If this item is operated on cess, 20/- per joint will be decided from the associated rate for number of Joints done on cess.	Per Joint	40.00	5724.00	228960.00

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2	2	Conversion of 60 Kg 90 UTS rail from SR/SWR to longer panel on running track by welding of 52/60 Kg rail joint by Alumino Thermic SKV process with automatic thimble technology & single shot crucible including finishing, supply of portion, cost of transportation and other associated equipments complete by road from firm workshop to nearest PWI's stores including insurance and loading at workshop, unloading and stacking will be done by concerned PWI. During transit, Octoroi or any other charges will be done on contractor's account. Rate also includes supervision & supply of welder with RDSO competency certificate for the purpose. Compressed air only be used for welding. Pressure tank will not be used. Note- If this item is operated on cess, 20/- per joint will be decided from the associated rate for number of Joints done on cess.	Per Joint	1700.00	5675.36	9648112.00
					Total	9877072.00
Schedule	Schedule V-Execution of all work as per schedule					
Item- 22	Supply of P. Way Fittings under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	60 kg Fish bolts RDSO's Drawing no. T- 1899 with nut.	Each	61567.00	73.70	4537487.90
2	2	52 Kg Fish plate T-090(M).	Numbers	100.00	542.30	54230.00
3	3	60kg/52 Kg comb. Fish plate T-696- 699.	Set	32.00	4592.50	146960.00
4	4	60 Kg Fish plate (T-1896).	Numbers	20261.00	1657.70	33586659.70
5	5	Supplying GR sole plate for 60Kg 1 in 12 turnouts as per RDSO'S Drawings.	Set	37.00	24145.34	893377.58
6	6	Supplying GR sole plate for 60Kg 1 in 8.5 turnouts as per RDSO'S Drawings.	Set	1.00	15712.02	15712.02
7	7	Supplying G.R. Sole plate for use with DS as per RDSO drawing.	Set	1.00	8479.20	8479.20
8	8	Supplying G.R. Sole plate for use with SEJs as per RDSO drg. No T-4159.	Each	300.00	192.54	57762.00
9	9	Manufacture & Supply of one metre long Fish Plate to RDSO Drg No. T- 5916, with latest alteration for Fish Plated joints for 60 Kg Rail with Fish bolts with nuts to RDSO Drg No T-1899. Specification: (i) for fish plate: IRS-T-1 with latest corrigendum. & (ii) for Fish bolts with nuts IRS-T-231 with latest corrigendum.	Set	484.00	4925.95	2384159.80
10	10	Manufacture & Supply of Joggled Fish Plate with necessary Clamps complete to RDSO Drg No. T- 5849, with latest alteration for weld fractures B.G. 60 Kg UIC Rails including Bolts & Nuts, Fish Plated joints for 60 Kg Rail with Fish bolts with nuts, Single coil spring washer & special washer.	Set	911.00	3055.35	2783423.85
11	11	Manufacture & Supply of CI Bracket with L - Distance Bracket, with all fittings except bolts & nuts for 52 kg check rail to be used on PSC Sleeper B.B.60 kg UIC Rail to RDSO Drg. No. T- 4917, with latest alteration.	Each	590.00	510.57	301236.30
12	12	Supply of 22mm Dia bolts & nuts T-11550.	Each	605.00	64.61	39089.05
13	13	Supply of Plate Screw to RDSO Drg. No. T-3911, 3912, 3913, 4153 & 3915.	Each	10261.00	61.06	626536.66
14	14	Supply of Single coil spring washer to RDSO Drg. No. T-10773.	Each	61567.00	9.79	602740.93

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15	15	Supplying small fitting like screws, plate screws, fish bolts (size 140*25), bolts (size 160*25), packing pieces, MS plates, , point lever box with pull over rod etc.and any other small fitting from RDSO approved firms as desired by Engineer-in-charge.	Kg	4617.00	78.65	363127.05
16	16	Supplying approved quality PWI tool kit of Kelvin made or any other similar approved quality (Model no. TK-2) The PWI tool kit should have been designed and developed to conduct reliable measurement of different track parameters. The tool kit should be properly packed in brief case for easy carriage.	Each	1.00	15454.16	15454.16
17	17	Joggled fish plates(52 kg)T-5848.	Set	50.00	3792.32	189616.00
18	18	Elastic Rail Clip 'J' Clip (T-4158).	Numbers	5000.00	64.59	322950.00
					Total	46929002.20
Schedule	Schedule W-Execution of all work as per schedule					
Item- 23	Carriage of Material under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	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	20522.00	102.95	2112739.90
2	021141	Additional lead for every subsequent 50m or part thereof, over 50m and upto 500m over item no. 021140.	MT	184698.00	28.46	5256505.08
3	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	20522.00	160.31	3289881.82
4	021151	Additional lead for every subsequent km or part thereof, over 10 km and upto 100 km over item no. 021150.	MT/Km	1846980.00	7.25	13390605.00
5	021152	Additional lead for every subsequent km or part thereof, over 100 km and upto 400 km over item no. 021150 &.021151	MT/Km	6156600.00	6.62	40756692.00
6	021153	Additional lead for every subsequent km or part thereof, over 400 km and upto 1000 km over item nos. 021150, 021151 & 021152	MT/Km	1026110.00	5.58	5725693.80
7	021160	Leading miscellaneous materials such as iron work, rail, pipes, wooden logs, stones over pitching stone size, RCC/PCC beams / slabs etc and all similar articles (each individual article or bundle being more than 3.5 metres long in the longest direction) including picking up and stacking, lead upto 50m.	MT	6157.00	104.60	644022.20
8	021161	Additional lead for every subsequent 50m or part thereof, over 50m and upto 500m over item no. 021160	MT	55413.00	32.11	1779311.43

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9	021170	Leading miscellaneous materials such as iron work, rails, pipes, wooden logs, stones over pitching stone size, RCC/PCC beams / slabs etc. and all similar articles (each individual article or bundle being more than 3.5 metres long in the longest direction) by truck, trailer, etc including all loading, unloading and stacking, lead over 500m and upto 10 km. Note : Lead under this item is payable when the same exceeds 500m.	MT	6157.00	171.47	1055740.79
10	021171	Additional lead for every subsequent km or part thereof, over 10 km and upto 100 km over item no. 021170	MT/Km	554130.00	8.40	4654692.00
11	021172	Additional lead for every subsequent km or part thereof, over 100 km and upto 400 km over item nos. 021170 &.021171	MT/Km	1847100.00	6.31	11655201.00
12	021173	Additional lead for every subsequent km or part thereof, over 400 km and upto 1000 km over item nos. 021170, 021171 & 021172	MT/Km	3694200.00	5.69	21019998.00
13	021430	Hiring and operating Multi-Utility vehicle of loading capacity one MT with sitting capacity of 4/6 persons, 4 strokes, 4 cylinders engine, factory-built metal body, cargo box type or passenger cabin type or both (with 24 hours availability), including cost of fuel, lubricants, major/minor repairs, salary of driver, toll tax, all other tax complete, operation and maintenance including running upto 1200 km in a month. The vehicle shall run on pucca, kutch road and along the track. The contractor shall arrange road permit for vehicles for all the States of operation, as per instructions of engineer in-charge and vehicle shall not be more than three years old.	Each/month	48.00	25878.22	1242154.56
					Total	112583237.58

Schedule Schedule Z-Execution of all work as per schedule

Item- 26 Tree Cutting, Enumeration & Transportation under Non SERUSSOR - 2010

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Execution of all works (both field and office) related to preparation of tree enumeration for getting permission for cutting of trees within non forest Govt.land/Pvt land and Railway land from revelant DFO & other forest parameters, including due demarcation of plots with revenue and forest authorities as per the botanical names and such other features as instructed by forest officials in the entire Railway land in given section. The work involves :-1) Physical counting and marking of tree in such manner as instructed by forest official as per forest act. 2.) Numbering ofstanding tree having girth 25 Cm and above. 3) Identification of tree in Kisseem wise. 4) Tabulation of quantity in No and Kisseem wise and girth & location wise. 5.) Blazing on tree 15 cm x 15cm in two spot i.e . one at aboveGL and otherat height of 1m above GL. 6) script the tree number on blazed area with best quality black paint in yellow background. 7.) supply of vehicle for transportation of official staffs of revenue and forest from office to site and back with other logistic facility. 8) Laisoining with revenue and forest officials. 9.) Compilation and submission of data so obtained from field surevey as per proforma directed by forest & revenue official/department and getting the same authenticated by revenue and forest official.	Sqm	350000.00	1.21	423500.00

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2	2	Branching, cutting, felling, dragging of both timber and firewood trees, and logging and stacking of timber tree in Railway land coming in formatio , toe , slope of cutting or banking as per joint verification reported by revenue and forest dept. The rate includes labour charges, ascent, decent crossing one or more Railway line where arising, consumable, tools, plants and equipment all incidental charges, taxes, royalties etc. complete as required. Note- Here unit Each means per tree.	Each	100.00	501.00	50100.00
3	3	Transportation of timber as per forest act or as directed by forest officials after getting the same authenticated by forest official from site to nominated/directed Depot of forest department and stacking the same for auction by relevant forest department. The rates includes labour charges, ascent, descent, crossing one or more Railway line where arising, consumable, tools, plants and equipment all incidental charges, taxes, royalties etc. complete as required.	cum	40.00	1784.00	71360.00
					Total	544960.00
Schedule	Schedule ZA-Execution of all work as per schedule					
Item- 27	Pandal, table etc. under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Pandal 12' x 8' Size.	Each	15.00	815.00	12225.00
2	2	Table.	Each	30.00	33.00	990.00
3	3	Chair.	Each	90.00	7.00	630.00
4	4	Tube light.	Each	40.00	11.00	440.00
5	5	Flood light.	Each	20.00	109.00	2180.00
6	6	3 KVA Generator with Operator.	Each	9.00	760.00	6840.00
7	7	Diesel for running the Generator.	Litre	450.00	70.25	31612.50
8	8	Steel drum with Tap (30 liters Capacity) with one glass.	Each	9.00	38.00	342.00
9	9	Labour for feeding drinking water from suitable sources to the pandal location for three shift i.e. day & Night.	Each	80.00	261.00	20880.00
					Total	76139.50
Schedule	Schedule ZB-Execution of all work as per schedule					
Item- 28	Horticulture under SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	161020	Supplying and stacking of good earth at site including royalty (earth measured in stacks will be reduced by 20% for payment)	cum	200.00	276.11	55222.00
		Supplying and stacking at site dump manure / farm manure / animal dung manure from approved source; including all lead and lift etc. (manure measured in stacks will be reduced by 8% for payment)				
2	161041	Screened through sieve of I.S. designation 20mm	cum	100.00	103.65	10365.00
3	161090	Spreading of sludge, dump manure/ farm manure/animal dung manure and good earth in required thickness (cost of sludge, dump manure/farm manure or/ and good earth to be paid separately)	100 Sqm	350000.00	14.51	50785.00
4	161100	Mixing earth and sludge or manure in proportion specified or directed. (Net total quantity of earth, sludge or manure after deduction of voids to be cosidered for payment)	cum	300.00	9.50	2850.00

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		Half brick circular tree guard in 5.0/7.5 class designation bricks, internal diameter 1.25m and height 1.2m above ground and 0.20m below ground, bottom two courses laid dry and top three courses in lime mortar 1:2 (1 lime putty:2surkhi) and intermediate courses being in dry honey comb masonry as per design complete				
5	161161	(a) With F.P.S. bricks 5.0 class designation	Each	20.00	615.70	12314.00
		Maintenance of lawn, shrubs, hedge, trees etc. including watering, trimming, manuring, spraying insecticide and guarding as required. This includes supply of labour, tools & plants including materials				
6	161484	Tree	Each/month	36000.00	19.52	702720.00
		Avenue Plants				
7	162080	Delonix regia (Gulmohar) of height 135-150 cm in big each polybag of size 25-30cm	Each	100.00	47.47	4747.00
8	162082	Eugenia Jambolana (Jamun) of height 120-135 cm in big polybag of size 25-30cm	Each	500.00	40.88	20440.00
9	162104	Mangifera Indica (Mango of height 60-75 cm in big polybag of size 30-35cm	Each	1000.00	56.33	56330.00
		Supplying at site -				
10	241011	Precast R.C.C. standard posts (for barbed wire fencing) 1.8m long	Each	1500.00	504.98	757470.00
11	242010	Providing 1.2m high fencing with 1.8m R.C.C. Post placed every 3m apart, embedded in cement concrete blocks, every 15th post (or nearer if there is abrupt change of ground slope), last but one end post and corner post shall be strutted on both sides and end post one side only, and struts embedded in cement concrete blocks, provided with 5 horizontal lines and two diagonals of G.I. barbed wire 9.38kg per 100metres (min) between the two posts fitted and fixed with G.I. staples on turn buckles or G.I. binding wire tied to 6mm bar nibs fixed while casting the post (cost of posts, struts and concrete to be paid for separately)	Metre	5000.00	46.47	232350.00
					Total	1905593.00
Schedule	Schedule ZC-Execution of all work as per schedule					
Item- 29	Foot Over Bridge under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	<p>Supplying of structural steel and fabricating, assembling, erecting for construction of Foot Over Bridge. The work is to be executed by contractor with contractor's complete materials, tools & plants, all consumable supplied by contractor as required as per approved drawing of Foot Over Bridge and as per the direction of Engineer-in-Charge, inclusive of all modifications /alterations to Railway's approved Drawing, complete in all respect with submerged arc welding and other approved process as per approved drawing. Mode of Payment: 1) 40% of accepted rate will be paid after supply of steel materials as per drawing & pass of test report of structural steel (Voucher of Purchase the structure steel should be produced along with bill). 2) 30 % of accepted rate will be paid after fabrication of girders & trestle of Foot Over Bridge. 3) 25% of accepted rate will be paid after erection & launching of girders & trestle of Foot Over Bridge. 4) 5% of accepted rate will be paid after completion the work of Foot Over Bridge in all respect. NOTE: a) All structural Steel sections shall conform to IS-2062 as per provisions in RDSO's specification. b) The rates are deemed to include cost of all bolts & nuts, welding, Clamps, jig & fixtures, fabrication bed and covered shed etc for fabrication purpose.c) The rates are deemed to include all labour, tools & plants/equipment, machinery, assembly cranes, consumables and transportation cost. all leads, lifts, crossing of Railway lines, natural river/streams inclusive and complete. d) The rates are deemed to be inclusive of all taxes, levies, royalty etc. as leviable by Centre, State or local authorities complete. e) The girder components of girders and trestles shall be inspected & passed by Rly's authorised representative as per Technical Specifications & requirements.f)Manufacturer's Test Certificates and Tests required as per Specifications shall be furnished /carried out at contractor's own cost.g) Welded bridge code 1972 with up to date correction slip to be followed. h) Railway crane will be provided to facilitate the launching of Girder of Foot Over Bridge on Railway's cost. If Contractor provides the crane for launching of Girder of Foot Over Bridge then crane charges will be paid separately to the contractor. i) Fabrication of FOBs can be done through firms who are on the RDSO's approved list of vendors for fabrication of steel bridge girder. However, to ensure quality of fabrication, QAP has to be prepared in each case which is to be approved by officer not below rank of JAG.</p>	MT	375.00	108373.84	40640190.00
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**SER-CONST-HQ-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

Tender No: 4256-GRC-CE-C-II-61-2020

Closing Date/Time: 09/03/2021 12:00

2	2	Providing & laying Precast RCC of M-25 or higher mix design, in Steps of the Stair, Landing and walk way of FOB as per design & drawing, approved by Railway with contractor's graded hard stone chips of size 20mm & below (granite, basalt, black trap) aggregate of approved quality and contractor's sand of approved quality including contractor's all materials, steel form work, tools & plants with all lead, lift, loading , unloading, all taxes, royalty etc complete in all respect but excluding cost of cement & steel, as per Drawing and as per instruction of Engineer in charge. Cost of Cement & steel will be paid separately as per consumption. Note: (1) 50% of the rate including cement & steel consumption will be retain & released after successful laying & fixing of slab (2) Design Mix of concrete and test for compressive strength will be obtained by the agency as per instruction of Engineer in Charge.	cum	125.00	4005.03	500628.75
3	3	Providing & laying Cast in situ RCC M-25 or approved design mix concrete in Stair / walkway of FOB where is required, as per design & drawing, approved by Railway with contractor's graded hard stone chips of size 20mm & below (granite, basalt, black trap) aggregated of approved quality and contractor's sand of approved quality including contractor's all materials, steel form work, tools & plants with all lead, lift, loading , unloading, all taxes, royalty etc complete in all respect but excluding cost of cement & steel, as per Drawing and as per instruction of Engineer in charge. Cost of Cement & steel will be paid separately as per consumption. (1) Design Mix of concrete and test for compressive strength will be obtained by the agency as per instruction of Engineer in Charge.	cum	200.00	3614.74	722948.00
4	4	Sand blasting & Metalizing the bridge components with Aluminum wire as per IRS B1-2001 including applying one coat of Each Primer of IS: 5666 & followed by one coat of Zinc Chromate Primer of IS 104 & two coats of Aluminum Paint of IS: 2339 (one coat of Aluminum Paint is to be applied before erection & another coat of Aluminum Paint to be applied after erection). During sand blasting the surface should be thoroughly cleaned & roughened by compressed air with suitable abrasive material and grade of blasting shall conform to IS: 9954. Before spraying the surface shall be made free from grease, scale, rust, moisture or other foreign materials. The metal spraying shall be carried out as per IS: 6568. The chemical composition of Aluminum to be sprayed shall be 99.5% Aluminum conforming to IS: 2590. The surface of the sprayed coating shall be uniform texture and free from lumps, coarse areas and loosely adherent particles. The nominal thickness of the sprayed Aluminum coating shall be 150 micron. All paints of Aluminum wire to be tested from Govt. approved laboratory at contractor's cost. The DFT of the paint is to be checked at the site with digital Elcometer at the cost of the contractor. The rate includes cost of Primer, paint, tools and plants and machineries for metalizing work etc. to complete the work as per direction & satisfaction of Engineer-in-Charge. Note:-The sprayed metal coating shall be subjected to an adhesion test. If any part of the coating between lines breaks away from the base metal, it shall be deemed to have failed the test.	Sqm	7000.00	742.81	5199670.00

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5	5	Launching & placing of Girder of the Foot Over Bridge in required location in Traffic cum Power block using 250 MT capacity Road crane including contractor's all labours, materials, all consumable fuel etc, tools and plants lead, lift, GST and all taxes etc complete as per instruction of Engineer-in-charge. Note : (1) The work includes Fixing of slings, cost of slings, lifting of FOB. (2) The work includes all pre work such as placement of girder at an appropriate location on platform as required, fixing of slings as per requirement and placement on the column and fixing of bolts after placement of girder over the column The work includes cost of man power, operations machines, gas cutting equipments and is inclusive of execution of work under traffic com power block. (3) The work is inclusive of all lead, lifts, track crossing and all other hidden operation during placement of the FOB girder between Platform and required location. (4) The work is inclusive of all taxes, octroi, road tax for cranes, vehicle etc. (5) The work may be done during day or night hours as per the timing of traffic cum power block granted by Railway. In case of of night working, light arrangements will be provided by the agency at his own cost. (6) In case of Non availability / cancellation of traffic cum power block, No contractor's claim will be accepted. (7) Crane will be applicable only for launching of Girder only. (8) No other charges will be paid for launching of Girders of FOB.	Each Span	5.00	459732.89	2298664.45
					Total	49362101.20
Schedule	Schedule ZD-Execution of all work as per schedule					
Item- 30	Earthwork under Non SERUSSOR - 2010					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Earthwork in bank in formation including LC approaches, Trolley refuges, Road diversions, Platforms or any other locations etc. with Contractor's own earth of approved quality borrowed from outside railway land as approved by Railway, by supplying, spreading,grading leveling to in each layer using power grader and controlled wetting/drying, in layers of 300 mm. in loose state, for compacting the same with Contractor's vibratory roller to the profile and the method and sequence of operations so as to achieve a dry density of minimum 98% of Maximum Dry Density of the soil determined as per IS: 2720(Pt.VIII) -1983 as directed by the Engineer-in-charge or his representative. The Earth work shall be executed as per the guideline and specification of design of formation forHeavy Axle Load Report No.- RDSO/2007/ GE-0014 of 2009 for 25T axleload and Specification No. RDSO/2018/GE:IRS-0004 (D) part-IV), Dt. 25.07.2019.(Compaction shall be paid for separately vide Item No.4 of this schedule). Rate is inclusive of all lead, lift, clearance of vegetation/jungle if any, dismantling of pitching, benching of slopes, dressing of slopes, breaking of clods, all labour, ascent, descent, crossing railway line where required, loading, unloading, machinery, consumables, materials, royalty, taxes, all incidental charges, tools and plants etc. complete as required. Note: - a) The quantity payable will be arrived at after deducting 5% shrinkage of the total	cum	180000.00	251.00	45180000.00

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	<p>quantity. b) Payment @ 95% of the accepted rate will be made for those stretches which have not reached final levels and profile including turfing. This retained amount of 5% will be paid after final level, dressing & turfing. c) An additional width of 500 mm. to be provided on both sides and rolled on either side which shall be removed or the slopes dressed after achieving full height of the embankment so that compaction is achieved to the required values till the edge of the formation width. The quantity for this additional width of 500 mm. will not be paid for. d) While rolling each layer the Contractor shall have adequate number of men along with the Roller so that the finished surface is leveled and is self draining all the time. e) Top of finished fill material, i.e., just below the blanket shall be finished to a slope of 1 in 30 from center on both sides. f) The stretch to be executed shall be divided into three stages: In the 1st stage spreading of fill material, in the 2nd stage compaction and in the 3rd stage testing of the earth work shall be done. g) Rain cut formed during construction should be attended to or repaired immediately for which no extra payment will be made. h) Before starting of earthwork the area should be cleared of all vegetation for which no extra payment will be made. i) The contractor should keep survey equipments such as Total Station, theodolite, Auto level to initially give the alignment marking and check it regularly during construction. j) Any portion of earthwork executed outside the profile shall not qualify for payment. k) The contractor should use power grader for spreading, leveling, grading of earth before rolling. l) The Earth work shall be executed as per the guidelines & specification for design of formation for Heavy Axle Load Report No.- RDSO/2007/GE:0014 of 2009 and RDSO letter no.RS/G/108/Heavy Axle Load dated 19.10.2015. m) The rate shall include cost of all field tests as per RDSO guidelines of G:0014 & G0004(D) part-(IV).</p>		
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2	2	<p>Earthwork in cutting (Classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine and materials and removing & leading all cut spoils either to make spoil dumps beyond 10m. from cutting edge or for filling in embankment (if suitable) with all leads within the section limit, lifts, ascent, descent, loading, unloading, all taxes/royalty, clearance of site and all incidental charges, bailing & pumping out water if required, etc., complete as per directions of the Engineer-in-Charge. The work is to be executed as per Latest / updated edition of "guideline and specification of design of formation for Heavy Axle Load Report No.-RDSO/2007/ GE-0014 of 2009 for 25T axleload and Specification No. RDSO/2018/GE:IRS-0004 (D) part-IV), Dt. 25.07.2019. (a) In all conditions and classifications of soil except rock Note: 1 .Cutting of formation/desired level shall be done as per the instruction of Engineer-In-Charge after testing done for the ground soil /sub soil as per the guideline and specification of design of formation for Heavy Axle Load Report No.-RDSO/2007/ GE-0014 of 2009 for 25T axleload and Specification No. RDSO/2018/GE:IRS-0004 (D) part-IV), Dt. 25.07.2019. The following tests are to be done to achieve suitable stable formation for earth fill . The test to be done are 1) Undrained Cohesion Test 2) Plate load test & 3) SPT and No extra payment shall be made for the above test.</p>	cum	110000.00	152.00	16720000.00
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3	3	<p>Providing and laying blanketing materials conforming to the guidelines & specification for design of formation for Heavy Axle Load Report No.-RDSO/2007/ GE 0014 of 2009 for 25T axleload and Specification No. RDSO/2018/GE:IRS-0004 (D) part-IV), Dt. 25.07.2019. in Layer of 250 mm in loose state using motor graders and compaction using vibratory compactor with top and side dressing to provide final formation as per design profile. Compaction shall be done with heavy duty power driven contractor's vibratory roller of minimum 10 tonnes capacity so as to achieve a dry density of 100% of the maximum dry density of blanketing materials. The blanket material should confirm to the dry density of 100%, enveloping curve, CBR value, los angles abrasion value, etc. by blending the material of aggregate 20mm, aggregate 10mm. quarry dust, sand, moorum confirm to the guideline and specification of design of formation for Heavy Axle Load Report No.-RDSO/2007/ GE-0014 of 2009 for 25T axleload and Specification No. RDSO/2018/GE:IRS-0004 (D) part-IV), Dt. 25.07.2019. The blanketing materials are to be blended in pug mill/ mixing plant for which no separate payment will be made. Blending material should laid over well compacted sub grade confirm to GE-0014 & G: 0004(D), part(iv) specification. The proportion of blending material is to be adopted duly approved by the Engineer-in-charge after testing in approved laboratory. The rate also includes of all lead, lift, dressing of slopes, all labour, consumable materials, ascent, descent, loading/unloading, royalty, tools & plants, all taxes, all incidental charges, etc. complete as required. The thickness of the blanket layer 550 mm or will be as decided by the Engineer-in-charge depending on the site condition. Note: 1. The rate shall include testing of the blanketing materials, CBR test, Deformation modulus(Ev-2) test, los angles abrasion test, and other field tests as per latest RDSO guidelines. 2. Payment for mechanical compaction will be paid separately. 3. The quantity qualifying for payment under this item will be arrived at by cross sections. The net quantity of the blanket cross section shall be obtained by deducting 5% shrinkage from gross quantity.</p>	cum	110000.00	1378.00	151580000.00
4	4	<p>Mechanical compaction of earthwork in formation in bank in layers not exceeding 300 mm in case of fill material and 250 mm in case of subgrade & blanketing material in loose state including watering, drying and compacting with Contractor's vibratory roller of minimum 10T on capacity so as to achieve the required moisture content and dry density at least equal to 98% of the maximum dry density for item no.1 & 2 & 100% in item no.3 of of this schedule and in case of sand 70% of relative density as per IS:2720 (Pt.VIII)-1983 and dressing the same to standard profile as directed by the Engineer or his representative. The Earth work shall be done as per the guideline and specification of design of formation for Heavy Axle Load Report No.-RDSO/2007/ GE-0014 of 2009 for 25T axleload and Specification No. RDSO/2018/GE:IRS-0004 (D) part-IV), Dt. 25.07.2019. Sites which are inaccessible to normal compacting equipment shall be compacted with the help of Contractor's mechanical tampers of</p>	cum	400000.00	14.00	5600000.00

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	<p>approved type in layers not exceeding 100 mm. Notes: - (a) Quantity payable shall be same as in item no 1,& 3. (b) The minimum number of passes of the roller shall be 8 or more depending upon field trials (as per IS: 10379- 1982) main criterion being to compact upto a dry density equal to or more than 98% of the maximum dry density of the fill material & 100% of MDD in case of blanketing material referred to in the description of the item. (c) Each layer shall be continued to be rolled till the required dry density is achieved uniformly throughout the layer. (d) Rollers shall not be allowed near to any concrete surface closer than 1500 m . And the entire fill in this space shall be mechanically tamped. Final rolling of the top most layers shall be done with a smooth wheel tyre roller. (e) Filling behind minor bridges and culverts shall be done simultaneously from both sides. (f) In back filling over structures, material shall be deposited in layers of 100 mm. thickness, sloping away from the structure with each layer carefully tamped. (g) Where the moisture content of the earth in any layer is above optimum moisture content, the same shall be left for drying for suitable period to bring down the moisture content very near to optimum moisture content before rolling is commenced. If the soil is dry, water shall be sprinkled over the spread layer, as convenient in order to attain moisture content near to optimum moisture content before rolling is commenced. (h) Each layer shall be compacted to the desired density over it's entire width before commencing the compaction of next layer. (i) While compacting, it shall be ensured that there is a minimum overlap of 200 mm. (8") between successive runs of the roller. (j) The dry density of each layer of compacted soil shall be ascertained by taking soil samples collected from either side of the center line across the track with a few taken at random near the edges as per IS;2720(Pt.XXVIII and XXIX)-1974, 1975 respectively. a minimum of three samples shall be taken between any two chainages. (k) No additional payment shall be made for making well the deficiencies due to natural sinking or subsidence of original ground due to movement of heavy equipment and the Contractor shall have to make good all the deficiencies. (l) Water required for work will be arranged by the Contractor at his own cost. (m) The roller to be used shall be got approved by the Engineer-in-charge before use.</p>			
		Total		219080000.00

4. ELIGIBILITY CONDITIONS

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

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1. Similar nature of work: Any work involving Earthwork in formation and CC/ RCC/PSC work. 2. In addition the tenderer 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)

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Submission of Document Verification Certificate

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

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Submit the scanned copy (In PDF Form) of the work(s) completion certificate(s) as per the requirement of Technical 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)

Standard 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	Allowed (Mandatory)
1.2	Submit the scanned copy (In PDF Form) of the Bid Security Declaration (Please refer Clause 12.26 of tender document). This is applicable in all works contract in lieu of Earnest Monet Deposit (EMD). TENDERS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED.	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)
2	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)
3	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	Option of Payment through Letter of Credit (L.C.): Tenderer(s) may submit option for taking payment through Letter of Credit (L.C.). [Refer para 7.1 of tender document].	No	No	Not Allowed

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2	Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under: The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India for the relevant date. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date.	No	No	Not Allowed
3	Electronic Reverse Auction (eRA) is applicable in works tender valued more than Rs 50 crore in each case. [Refer para 7.2 of tender document].	No	No	Not Allowed
4	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
5	All General Instructions are available in the uploaded tender document.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	SCANNED COPY (IN PDF FORM) OF ALL THE DOCUMENTS OF THE JOINT VENTURE (JV) FIRM AS MENTIONED IN THE PARA 2.3 OF THE TENDER DOCUMENT. IF THE TENDERER IS A JOINT VENTURE FIRM, ALL THE REQUIRED DOCUMENTS SHOULD BE UPLOADED HERE. TENDERS OF JV FIRMS NOT ACCOMPANIED BY THESE DOCUMENTS WILL BE SUMMARILY REJECTED. For all other type of firms (Other than JV firms) the tenderer has to upload the scanned copy (In PDF Form) of all the documents as mentioned in clause 2.3 of the tender document.	No	No	Allowed (Mandatory)
2	Scanned copy (In PDF Form) of the Vendor Mandate Form as per specific format provided in the para 4 of tender document. The Tenderer is required to declare Bank details and A/C No. etc. in Vendor Mandate Form.	No	No	Allowed (Mandatory)
3	Scanned copy (In PDF Form) of the complete address of the firm as per para 1 of tender document, to which the all correspondences shall be made by the railway.	No	No	Allowed (Mandatory)
4	Scanned copy (In PDF Form) of valid Provident fund (PF) Code Number of the establishment/tenderer.	No	No	Allowed (Mandatory)
5	Scanned copy (In PDF Form) of Goods and Services Tax (GST) Registration Certificate containing GST Registration Number.	No	No	Allowed (Mandatory)
6	Scanned copy (In PDF Form) of certificate by tenderer for site visit & familiarization (Refer para 11 of tender document).	No	No	Allowed (Mandatory)
7	Scanned copy (In PDF Form) of declaration by tenderer as per para 6 of tender document.	No	No	Allowed (Mandatory)
8	Scanned copy (In PDF Form) of the list of the persons of the tenderer on hand & proposed to be hired for this tender.	No	No	Allowed (Mandatory)
9	Scanned copy (In PDF Form) of list of the plants & machinery of the tenderer available on hand and proposed to be inducted & hired for this tender.	No	No	Allowed (Mandatory)
10	Scanned copy (In PDF Form) of list of the arbitration/court cases of the tenderer during last three years.	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed
2	I/ We have visited the works site and I / We am / are aware of the site conditions.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
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**SER-CONST-HQ-ENGG/SOUTH EASTERN RLY
TENDER DOCUMENT**

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1	TD61-2020.pdf	Tender Document
2	CamScanner02-12-202117.47.12_1.pdf	Bar Chart
3	IRGCC16July2020.pdf	IR GCC JULY 2020

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: ASHOKE KUMAR SAHA

Designation : AXEN/C/W-A/GRC