

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

Chief Engineer, Construction, Ernakulam Jn acting for and on behalf of The President of India invites E-Tenders against Tender No **16-CE-CN-ERS-2026-OT** Closing Date/Time 23/07/2026 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	NAME OF WORK:- Shoranur- Mangalore section - (1) Proposed re-construction of Br. No. 829 (pro. DN line) at km 603/700-800 as 3x12.2m clear span PSC slab between Pallippuram and Kuttippuram stations (2) Proposed re-construction of Br. No. 1177 DN at KM 822/300-500 as 6x12.2m effective span PSC slab between Kanhangad and Kotikulam stations (3) Proposed re-construction of Br. No. 1188 (DN line) at KM827/500-700 as 4x12.2m clear span PSC I girder & slab between Thalassery & Etakkot stations including earthwork & blanketing for formation on approaches, collection of ballast, linking of track and other miscellaneous works in Palakkad Division of Southern Railway under DyCE/CN-I/TVC.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	23/07/2026 15:00	Date Time Of Uploading Tender	29/06/2026 18:48
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	484941524.39	Tendering Section	TENDER
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	9698800.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	18 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	09/07/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
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-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.							132586714.49	Above/ Below/Par
1	Please see Item Breakup for details.				104398987.79	27.00	132586714.49	
	Description:- For earthwork in filling using Contractor's earth & miscellaneous works for Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.							16436320.00	Above/ Below/Par
2	Please see Item Breakup for details.				16436320.00	AT Par	16436320.00	
	Description:- For blanketing of formation for Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.							41007688.36	Above/ Below/Par
3	Please see Item Breakup for details.				33988966.73	20.65	41007688.36	

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

Description:- For soil exploration, concrete works, protection works & miscellaneous works for Br No. 829, 1177 & 1188.								
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () D-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.							40972380.36	Above/ Below/P ar
4	Please see Item Breakup for details.				34387226.49	19.15	40972380.36	
	Description:- For piling work including permanent casing, load testing etc. for Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () E-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.							20801082.90	Above/ Below/P ar
5	Please see Item Breakup for details.				20801082.90	AT Par	20801082.90	
	Description:- For works related to PSC slab, HTS slab, staging & miscellaneous works or Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () F-Items of works that are covered by CPWD DSR 2023 as corrected by up to date.							38191288.75	Above/ Below/P ar
6	Please see Item Breakup for details.				38191288.75	AT Par	38191288.75	
	Description:- For retaining wall & miscellaneous works for Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () G-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.							13255781.59	Above/ Below/P ar
7	Please see Item Breakup for details.				13255781.59	AT Par	13255781.59	
	Description:- For P-way works Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () H-Items of works that are NOT covered by the Southern Railway USSOR, 2021.							6168621.05	Above/ Below/P ar
8	Please see Item Breakup for details.				6168621.05	AT Par	6168621.05	
	Description:- For P-way works for Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () I-Items of works that are NOT covered by the Southern Railway USSOR, 2021.							17024118.00	Above/ Below/P ar
9	Please see Item Breakup for details.				17024118.00	AT Par	17024118.00	
	Description:- For conducting CHUM test including supply of MS access tube, casting & launching of precast RCC slab, coating with epoxy IP net paint, conducting RSI analysis & miscellaneous work for Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () J-Items of works that are NOT covered by the Southern Railway USSOR, 2021.							16139800.00	Above/ Below/P ar
10	Please see Item Breakup for details.				16139800.00	AT Par	16139800.00	
	Description:- For supply of ballast for Br No. 829, 1177 & 1188.							

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () K-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.							19339036.64	Above/ Below/P ar
11	Please see Item Breakup for details.				21634452.00	(-) 10.61	19339036.64	
	Description:- For supply of cement for Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () L-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.							45438692.25	Above/ Below/P ar
12	Please see Item Breakup for details.				62244783.90	(-) 27.00	45438692.25	
	Description:- For supply of steel reinforcement for Br No. 829, 1177 & 1188.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () M-Items of works that are NOT covered by the Southern Railway USSOR, 2021.							77580000.00	Above/ Below/P ar
13	Please see Item Breakup for details.				77580000.00	AT Par	77580000.00	
	Description:- For supply of stainless steel reinforcement.							

3. ITEM BREAKUP

Schedule	Schedule A-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.					
Item- 1	For earthwork in filling using Contractor's earth & miscellaneous works for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	011010	Preparation of foundation for Embankment by clearing, grubbing, stripping top soil (average 150 mm) and stacking beyond foundation area, thereafter ploughing and pulverizing 150 - 200 mm of top of soil with tractor trolley, mixing water to achieve OMC with water sprinkler or left for natural drying, as required, and compaction with vibratory roller of suitable capacity to achieve 98% MDD for laying first layer of soil for embankment construction.	100 Sqm	14975.00	598.97	89695.76

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

2	011020	Benching of existing embankment manually in steps of 30 cm height for doubling/tripling works in running line to provide proper amalgamation between the old and new embankments as per RDSO latest Specifications and guidelines RDSO/2020//GE: IRS-0004 to the entire satisfaction of Engineer in-charge. The item includes uprooting and disposing of all the vegetation, all lift, descends, ascends and additional earthwork required for filling due to removal of earth in benching in existing bank. Note: (1) The benching Work shall be done for a maximum height of 0.90 m at any time based on the progress of earthwork starting from toe of the embankment. (2) Benchng work shall be certified and recorded before starting the earth work. (3) Unit for payment shall be km per metre height of the Bank. Height here means representative average height of the bank in the specified km taken from cross sectional measurements for earthwork. (4) Since the rate includes earthwork in steps, payment under this item shall be made after completion of earthwork to that level. (5) Cut soil from bank shall not be used in embankment construction and disposed off away from bank as per the direction of Engineer-in-charge.	Kilometre	3.72	387812.38	1442662.05
		Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, platforms etc. with contractor's own earth conforming to Soil Quality Class SQ1/SQ2/SQ3, after preparation of foundations as applicable, benching in existing banks wherever required, spreading in layers with motor grader, bringing the moisture content to OMC, mechanical compaction to specified density and dressing of bank to final profile as per RDSO Specifications: RDSO/2020/GE: IRS-0004 with latest correction slips. Note: 1) Foundation preparation, Benchng including additional earthwork on account of this, wherever required, shall be paid extra under relevant schedule item for benching. 2) Payment for Earthwork under this item shall be made based on the cross section measurements calculated (i) with original ground profile of existing bank based on initial ground levels before doing benching and (ii) final profile of the bank worked out with final levels as per prevailing guidelines.				
3	011032	Using Soil Class SQ2	cum	45400.00	1169.02	53073508.00
4	011033	Using Soil Class SQ3	cum	31625.00	1293.21	40897766.25

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		Earthwork in cutting 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, materials, plant & machinery, leading all cut spoils either to make spoil dumps or for filling in embankment with leads within 2 km on either side of edge of the cutting(s) including all lifts, ascent, descent, loading, unloading, bailing & pumping out water, if required, clearance of site and all other works incidental thereto for completing the work as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest updated correction slips and to the satisfaction of the Engineer-in-Charge. Note: (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked away from toe of embankment. (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of the Railways. (iii)Cut trees shall be property of Railways and to be deposited in the railway godown unless specified otherwise in the Conditions of Contract.				
5	012011	In all conditions and classifications of soil except rock	cum	3750.00	121.60	456000.00
		Felling trees of girth (measured at a height of 1.0 m above ground level) including leading and stacking of material within 100m. Note : 1. When stumps are grubbed up in addition, the rates shall be doubled for trees cut and grubbed 2. Payment for grubbing shall only be made where specially ordered. 3. Grubbing shall be ordered only where it is essential to remove the stumps, including the roots, as per specification. 4. Grubbing shall include removal of roots of trees and saplings to a depth of 60cm below ground level or 30 cm below formation level or 15 cm below sub grade level, whichever is lower.				
6	013011	Girth over 30 cm and up to 60 cm	Each	43.00	420.28	18072.04
7	013012	Girth over 60 cm and up to 1.5m	Each	36.00	1167.42	42027.12
8	013013	Girth over 1.5m up to 3 m	Each	17.00	2328.15	39578.55
		Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note: Initially payment of only 40% will be made. Balance 60% will be paid after 3 months of maintenance period, only if the turfing is properly rooted on entire turfed area.				
9	013021	Turfing with sods, 10cm thick and 20cm square closely laid.	100 Sqm	16000.00	36434.28	5829484.80

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

10	013080	Shoring with 'Z' section MS sheet piles side by side in all kinds of soil mechanically or manually as per approved drawing with contractor's own arrangement complete in all respects and removal of sheet piles after completion of the work as directed by engineer in-charge Note: Payment will be made as per actual driven length of pile.	Sqm	355.00	1104.42	392069.10
11	013100	Supplying & laying of drainage composite for use behind abutments, wing walls, return walls and Retaining walls Geocomposite drain (Vertical) as per RDSO Specification No. RDSO/2018/GE:IRS-0006 latest version with all material, labour, equipment, tools and plants, lead, lift etc. complete in all respects as per the direction of Engineer-in-Charge.	Sqm	4355.00	394.02	1715957.10
12	052260	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours.	HP Hour	250.00	67.48	16870.00
		Slope stability calculation and design for Railways Embankment / Cutting more than 6 meters height based on soil materials & parameters as per RDSO's latest standards and specifications, duly conducting relevant lab test, e.g. cohesion and angle of internal friction etc. and submitting report for approval duly showing the cross-section dimensions for embankment / cutting for each cross section.				
13	112011	Embankment	Each	6.00	636.17	3817.02
14	186210	Providing Rail Barricading with rails supplied by Railways with verticals provided at every 1.5m interval, height of barricade being up to 1.5m above ground / termination level and one or more row of horizontal rail, duly cutting rails and drilling holes as required, assembling necessary accessories to required length, including earthwork excavation for foundation, fixing posts in cement concrete 1:3:6 base of size 0.45m x 0.45m x 0.60m and one coat of red oxide painting of steel work. Note: 1. Excavation and concrete work will be paid separately. 2. Rail shall be made available within 250 metres	MT	200.00	1907.40	381480.00
					Total	104398987.79
Schedule	Schedule B-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.					
Item- 2	For blanketing of formation for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

1	012040	Manufacturing of blanketing material by wet mixing of naturally available suitable soil including additional blending with naturally available or manufactured material as required to achieve specified gradation, in designed proportion in Pug mill or wet mix plant to have uniform gradation including all incidental transportation, laying over finished formation in uniform layer(s) with motor grader, compaction with suitable vibratory roller to specified density and finishing to correct profile, complete as per RDSO Specification No. RDSO/2020/GE: IRS-0004 with latest correction slips.	cum	8000.00	2054.54	16436320.00
					Total	16436320.00
Schedule	Schedule C-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.					
Item- 3	For soil exploration, concrete works, protection works & miscellaneous works for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Exploratory drilling of boreholes down to required depth, drilling of 150mm dia. boreholes in all type of soils except hard rock & large boulders (boulder core more than 30cm) including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion/chiselling tool for advancing through occasional seams of hard strata to be employed, where necessary in Dry area.				
1	021011	0m to 10m	Metre	220.00	3378.29	743223.80
2	021012	10m to 20m	Metre	80.00	3712.78	297022.40
3	021013	20m to 30m	Metre	10.00	3880.02	38800.20
4	021014	30m to 40m	Metre	10.00	4381.75	43817.50
		Exploratory drilling of Boreholes down to required depth, drilling of 150mm diameter boreholes in all type of soils except hard rock and large boulders (boulder core more than 30cm), including refilling, reinstating surface and disposing off surplus material including use of mechanical rigs with power operated winches as well as percussion / chiselling tool for advancing through occasional seams of hard strata to be employed where necessary in River bed area including standing/flowing water with all necessary arrangements except making of platform under water which shall be paid under relevant item of SOR.				
5	021021	0m to 10m	Metre	150.00	4053.95	608092.50
6	021022	10m to 20m	Metre	110.00	4455.33	490086.30
7	021023	20m to 30m	Metre	20.00	4656.02	93120.40
8	021024	30m to 40m	Metre	230.00	5258.09	1209360.70
9	021030	Extra for 150mm dia. bore in hard Rock/large Boulder at all levels	Metre	35.00	8730.04	305551.40

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

10	021040	Erection of temporary working platform to drill bore hole through flowing/standing water through river bed up to water depth of 1.5m, and dismantling after completing work and removing from the site to clear the water way.	cum	65.00	7531.05	489518.25
11	021130	Conducting standard penetration test as per IS:2131 at approximate 1.5m intervals in bore holes, as directed by the Engineer in charge	Each	228.00	936.56	213535.68
		Conducting laboratory Tests on collected soil samples as per relevant IS code				
12	021151	Moisture Content/Dry Density	Each	170.00	401.38	68234.60
13	021152	Atterberg Limits	Each	170.00	602.07	102351.90
14	021153	Specific Gravity	Each	170.00	518.45	88136.50
15	021154	Grain size analysis including Hydrometer analysis	Each	170.00	1719.25	292272.50
16	021155	Direct Shear Test	Each	120.00	2307.94	276952.80
17	021156	Natural Density	Each	170.00	618.80	105196.00
18	021157	Consolidation Test	Each	120.00	3277.95	393354.00
19	021158	Unconfined Compression Test	Each	80.00	2187.53	175002.40
20	021159	Tri-axial Test	Each	110.00	2608.98	286987.80
		Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means 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. including all lift, disposal of surplus soil up to a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer in charge. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.				
21	022011	All kinds of soils	cum	800.00	232.59	186072.00
		Providing and laying in position Plain cement concrete of specified Nominal Mix for miscellaneous works like side drains, foundation for OHE masts and other miscellaneous structures excluding the cost of Cement, centering and shuttering - All work up to plinth level :				
22	022031	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	cum	1820.00	4748.45	8642179.00
23	022034	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	138.00	5080.23	701071.74

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

24	022040	Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation & Pile cap including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	788.00	4994.99	3936052.12
		Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality for the following Reinforced cement concrete structural elements up to height of 9.0 m from foundation top level, including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
25	022051	Abutment & Pier	cum	826.00	5106.90	4218299.40
26	022052	Wing wall and Return wall	cum	172.00	5106.90	878386.80
27	022053	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc.	cum	155.00	5162.86	800243.30

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

28	022060	Providing and laying Plain Cement Concrete 1:3:6 with graded stone aggregate of 40mm 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	78.00	5190.51	404859.78
29	022070	Providing and fixing Weep Holes in Abutments, Wing walls and Return walls etc., of new bridges with 110mm dia UPVC pipe Type A ISI marked with all contractor's men, material, transportation, all taxes as per specifications and as directed by Engineer-in-Charge.	Metre	191.00	382.46	73049.86
30	024010	Providing and casting machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls, thrust bed or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	110.00	5494.49	604393.90
31	024020	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, of specified grade (cast in-situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in Drop and curtain wall and alike structures below bed level, complete in all respect as per drawings and technical specifications to the satisfaction of Engineer-in-Charge. Note: Payment for cement, reinforcement and shuttering shall be made extra.	cum	8.00	4994.99	39959.92
		Centering and shuttering including strutting, propping etc. and removal of form for :				

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

32	025031	All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. up to 5m above ground level	Sqm	1980.00	853.04	1689019.20
33	025033	Extra for additional height over item no. 025031 & 025032 wherever required with adequate bracing, propping etc. over initial height of 5 metres for every additional height of 1 metre or part thereof.	Sqm	1980.00	135.65	268587.00
34	041370	Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks, Height Gauge etc. for Steel Structures other than bridge girders, using RSJ, tees, angles and channels/flats, plates, gussets, round or square bars, cleats, bolts etc., with contractors own steel including cutting, bending, straightening, drilling, riveting, hoisting, fixing, erecting, welding, bolting etc., with Providing stiffeners wherever required as per approved drawing including applying a priming coat of a approved steel primer with all contractor's materials, labour, tools & plants, lead & lift including crossing of tracks if required etc., complete as per specification and as directed by Engineer-in-charge. Note: The payment shall be made on the theoretical weight of main components and gusset plates only.	MT	5.00	140659.15	703295.75
35	051030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations.	cum	855.00	1739.32	1487118.60
36	051070	Providing and laying Pitching with Stone Boulders, weighing not less than 35kg each with 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). Rate is excluding cost of cement which shall be paid extra under relevant item.	cum	382.00	4869.91	1860305.62
37	051080	Providing and laying Filter Material as per RDSO Specifications underneath pitching in slopes complete as per drawing and Technical Specification.	cum	154.00	3663.94	564246.76
38	052200	Painting the HFL mark and Danger level mark, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials, labour, tools, scaffolding, all lead and lift etc. including writing complete.	Each	25.00	324.99	8124.75

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

39	052210	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	Each	10.00	1206.22	12062.20
40	052220	Providing cast in-situ plaques for bridge foundations details of size 45cmx45cmx5cm in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm deep notch over abutment & piers, engraving the letters & figures with CM 1:3 and finished smooth including painting letters and figures with 2 coats of black enamel and plaque with white enamel with all labour, tools, cement, paint, curing etc. as a complete job.	Each	19.00	1638.10	31123.90
41	052250	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	600.00	466.53	279918.00
42	195070	Fabrication, supplying and fixing 600mm x 450mm Bridge Board made from 16 SWG MS Sheet duly welded or riveted to back support of two 600mm long horizontal angles of size 25mm x 25mm x 3mm & two numbers 2.5 metre long vertical support of MS Angle of size 50mm x 50mm x 5mm, welded / rivetted to board. Vertical supports shall have split ends for proper fixing in ground. Vertical supports of board shall be embedded in ground in M 20 Cement Concrete blocks of size 300mm x 300mm x 300mm, complete job including painting & writing of subject matter on bridge board, as directed by Engineer - In charge Note: Excavation & concrete work will be paid separately.	Each	6.00	4029.01	24174.06

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		Manufacturing, fabricating and supplying retro-reflective Engineering Indicator boards, made of 2mm thick aluminium sheet or 3mm thick aluminium composite sheet, face to be fully covered with high intensity encapsulated type heat activated retro-reflective sheeting conforming to type-IV of ASTM-D4956-01 in yellow & black or other colour combination including subject matter, message, symbols, borders etc. as approved by Engineer In-charge or as per IRPWM guidelines, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back-support frame of M.S. angle iron of size 25mm x25mm x 3mm provided all along the edges of board with theft resistant measures back side of board shall be with non-peelable weatherproof paint, consisting of one coat of zinc chromate primer and two coats of epoxy paint. Vertical post shall have black & white anti-corrosive paint or powder coating complete, as directed.				
43	202021	Caution Indicator Board of size 1400mmx400mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	12.00	7028.86	84346.32
44	202022	Speed Indicator Board of equilateral triangular shape having each side of 1000mm with back support frame fixed to vertical post of MS angle of size 50mmx50mmx6mm of 3650 mm long	Each	12.00	6099.08	73188.96
45	202024	Termination Indicator Board of Circular shape having diameter of 1000mm with back support frame welded to vertical post of MS angle of size 50mmx50mmx6mm of 3950 mm long	Each	12.00	8189.18	98270.16
					Total	33988966.73
Schedule	Schedule D-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.					
Item- 4	For piling work including permanent casing, load testing etc. for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		Boring, providing and installation of bored cast in-situ Reinforced Cement Concrete piles of specified diameter and length below pile cap of specified grade with Design Mix Cement Concrete, using 20mm graded crushed stone aggregate and coarse sand of approved quality, to carry a safe working load not less than specified, concreting by machine batching, machine mixing, scaffolding, using Admixture in approved proportion (as per IS:9103), placing with tremie pipe, chipping off of pile top to remove laitance concrete above cut off level etc., pumping and bailing out water, by percussion drilling using Direct Mud Circulation (DMC) or Bailor and Chisel technique by tripod and mechanical Winch machine, complete in all respect as per approved drawing, specification and direction of the Engineer in charge. Note: 1. Payment for only cement, reinforcement and permanent casing pipe (if any) shall be made extra. 2. Length of the pile for payment shall be measured up to the bottom of RCC pile cap. 3. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
1	022083	1000mm diameter	Metre	456.00	6669.68	3041374.08
		Boring, providing and installation of bored cast in-situ Reinforced Cement Concrete piles using Hydraulic piling Rig of specified diameter and length below pile cap of specified grade with Design Mix Cement Concrete, using 20mm graded crushed stone aggregate and coarse sand of approved quality, to carry a safe working load not less than specified, concreting by machine batching, machine mixing, scaffolding, using Admixture in approved proportion (as per IS:9103), placing with tremie pipe, chipping off of pile top to remove laitance concrete above cut off level etc., pumping and bailing out water complete in all respect as per approved drawing, specification and direction of the Engineer in charge. Note: 1. Payment for only cement, reinforcement shall be made extra. 2. Length of the pile for payment shall be measured up to the bottom of RCC pile Cap. 3. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons for not using plasticiser at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
2	022093	1000mm diameter	Metre	1240.00	11653.22	14449992.80

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

3	022100	Providing, fabricating and installing permanent casing pipe for bored piles for all diameters with specified thickness of steel plate including all labour, materials, tools & complete as per approved drawing & specifications complete in all respect as per the direction of Engineer in charge. Note: Payment shall be made as per the weight of circular plate of casing pipe only.	MT	115.00	130687.21	15029029.15
		Extra for chiselling in addition to boring of piles, if chiselling is required to be resorted to in hard rock or big stone boulders larger than 30cm, manually or by any other means.				
4	022112	1000mm diameter pile	Metre	104.00	4461.99	464046.96
		Conducting load test of a single pile up to specified capacity in accordance with IS:2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer.				
5	022123	Initial load test above 100 ton and up to 250 T capacity pile	Each	4.00	99185.25	396741.00
6	022124	Extra for every increase of 50 ton in pile capacity or part thereof over 250 ton	Each	100.00	6146.97	614697.00
7	022127	Routine Load Test above 100 ton capacity up to 250 ton capacity pile	Each	3.00	49592.62	148777.86
8	022140	Pulse Echo Test (PET) for integrity testing of piles with contractor's men, materials and machines. The rate includes cost of Inspection of site, preparation of pile head and any other unforeseen cost required for the test, submission of reports in triplicate as per satisfaction of the Engineer in Charge.	Each	98.00	2475.18	242567.64
					Total	34387226.49
Schedule	Schedule E-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.					
Item- 5	For works related to PSC slab, HTS slab, staging & miscellaneous works or Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Centering and shuttering including strutting, propping etc. and removal of form for :				
1	025032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. up to 5m above ground level.	Sqm	1150.00	1105.75	1271612.50

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		Providing and laying in position machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix (mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants) using 20mm graded crushed stone aggregate and coarse sand of approved quality for cast in-situ Prestressed (Post-tensioned) concrete girder / Box girders/Slabs for different spans including finishing, using Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability complete as per drawings, specifications and direction of the Engineer in-charge. Note: 1. Payment for Staging, Shuttering, Cement, reinforcement, HTS cables, sheathing, anchorage cones, stressing of cables and grouting of the ducts shall be made extra under relevant items. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall be made as per relevant item.				
2	031011	With Soffit level up to 9m above Bed level	cum	540.00	5162.86	2787944.40
3	031040	Providing, fabricating & fixing in position to exact design profiles, H.T.S. cables of all classification made from Low Relaxation strands conforming to IS:14268- latest version in Prestressed (Post-tensioned) Concrete girders/slabs etc. including supplying, cutting, making into cables with necessary spacers, colour coding, protecting with water soluble oil at all time, anchoring of cables, supplying and placing spiral corrugated type galvanized metal steel ducts sheathing made up of Cold Rolled Cold Annealed (CRCA) mild steel conforming to IS:513 of required diameter/ thickness, vent pipe, placing, bending, routing, fixing, stressing & grouting of cable ducts with cement grout, Anchorage sets in required number with provision for future prestressing if any including all lead and lift with contractor's own materials, labour, equipments etc. complete as per drawings & specifications. Rate also includes covering anchorage pads with epoxy mortar of approved quality to avoid corrosion. Cement for grouting to be paid separately. Payment shall be made in terms of weight of HTS cables as per drawing.	MT	42.00	248876.47	10452811.74
4	031060	Extra for using HDPE sheathing in place of CRCA sheathing	Metre	3088.00	110.38	340853.44

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

5	031070	Making suitable designed staging for cast in-situ PSC girders/slabs up to 10.5m height from bed level up to soffit of girder/slab with all contractors materials, machinery, tools and plants, transportation complete in all respects required for casting and removal of the same after completing the work and restoring the site to original. Note: The payment for staging shall be made on the cubical quantity of concrete of main Girders/slabs.	cum	540.00	3478.60	1878444.00
		Providing and fixing in position of standard preformed sealed and slab type or strip seal elastomeric type expansion joints for Railway bridge or Road Over Bridges as per approved drawings and latest MORTH/IRC specifications complete in all respect as directed by Engineer in-charge.				
6	031101	For 40mm expansion	Metre	43.00	8844.25	380302.75
		Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/Railway codes with contractor's labour, deflection measuring instruments, loading materials, recording and analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges/loading material etc. The load shall be 1.25 times the stipulated design load.				
7	031111	For Span design load up to 100 MT	Each	3.00	89344.13	268032.39
8	031112	Extra for every increase of 1 MT or part thereof over 100 MT in the span design load capacity up to 800 MT	MT	1050.00	363.18	381339.00
		Providing and fixing in position GI Drainage Spouts of required length with Grating in RCC slab and filling bitumen along kerb as shown in drawing with contractor's pipes, bitumen, tools, equipment, lead, lifts etc. complete as per specifications and as directed by Engineer in-charge.				
9	031191	50mm dia. Drainage Spouts	Metre	100.00	613.55	61355.00
10	031220	Deduction in rate of 031010, 031020 and 031030 for casting of slab in place of Girder for any height	cum	540.00	-55.96	-30218.40
		Launching in position, by any approved method, pre-fabricated Steel Girders, precast PSC girders/slabs, casted at casting bed developed at site, to correct alignment and level over the bed block / pedestal with all required arrangements, complete in all respect.				
11	041321	PSC girders / slabs	MT	1472.00	2043.89	3008606.08
					Total	20801082.90
Schedule	Schedule F-Items of works that are covered by CPWD DSR 2023 as corrected by up to date.					
Item- 6	For retaining wall & miscellaneous works for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge:				
1	2.1.1	All kinds of soil	Sqm	1950	129.85	253207.5
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
2	2.8.1	All kinds of soil.	cum	10	260.3	2603
	2.9	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.				
3	2.9.1	Ordinary rock	cum	513	632.95	324703.35
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	5	196	980
5	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	30	2123.75	63712.5
	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
6	2.35.5	Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	Metre	4.1	279.7	1146.77
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
7	4.1.2	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	12	8340.85	100090.2

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

8	4.1.3A	1:2:4 (1 cement : 2 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 4 graded stone aggregate 20 mm nominal size including Recycled Concrete Aggregate (RCA) upto 25%)	cum	38	7654.85	290884.3
9	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	150	7294.7	1094205
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
10	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4	9895.2	39580.8
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
11	4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm	41	842.5	34542.5
	4.14S	MISCELLANEOUS				
	4.20	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete.				
	4.20.1	All works upto plinth level :				
12	4.20.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	12	9439.05	113268.6
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
13	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1410	10852.95	15302659.5

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
14	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	4830	842.5	4069275
15	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	12	736.4	8836.8
	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).				
16	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	18	384.3	6917.4
	5.23S	MISCELLANEOUS				
17	5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	Sqm	18	300.45	5408.1
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate /retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.2	All works above plinth level upto floor V level				
18	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	cum	5.5	10011.35	55062.43
	7.0	STONE WORK				
	7.1S	RANDOM RUBBLE MASONRY				
	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
19	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	234	7311.25	1710832.5
	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.				
20	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	360	9275.45	3339162

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

	15.0	DISMANTLING AND DEMOLISHING				
	15.1S	General				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
21	15.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	cum	30	2434.25	73027.5
22	15.2.2	Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	cum	30	1503.6	45108
23	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	30	3551.25	106537.5
	20.0	PILE WORK				
	20.1S	General				
	20.2A	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by Crawler mounted, telescopic boom hydraulic pilling Rig all complete, including removal of excavated earth with all its lifts and leads(length of pile for payment shall be measured up to bottom of pile cap).				
24	20.2A.1	600 mm dia piles	Metre	2070	5386.25	11149537.5
					Total	38191288.75
Schedule	Schedule G-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.					
Item- 7	For P-way works Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Pulling & positioning of rails accurately on cess including supporting rails, providing required gap and squaring at ends for renewal preparation, as directed by Engineer in-charge.				
1	061012	More than 40 m long rail panel	RM	6650.00	17.10	113715.00
2	061014	Extra to Item no. 061012 for working on bridge	RM	1820.00	7.88	14341.60
3	063090	Lubrication of ERCs and its liner contact area by removal of ERCs and Metal / GFN liners in rail panel, cleaning of rust / scale of ERC, Metal / GFN liners & SGCI insert by using wire brush, scrapper / sand emery paper etc supply and application of graphite grease, as prescribed by Railway for under side of liners & corresponding area of rail foot & SGCI insert with ERCs and re-fixing the same as per procedure prescribed in latest edition of IRPWM with contractors grease and all other tools & plants complete and as directed. Note: Each ERC in this item shall constitute 1 ERC and its Liner Contact area.	ERC	31234.00	7.01	218950.34

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

4	063110	Lubrication of gauge face of rail on curves, cross overs, points & crossings, turn-in curves and at locations as required with contractor's grease graphite grade "O" IS 408 and as directed.	RM	3565.00	6.56	23386.40
		Gas cutting of rail of various sections with contractor's tools & plants, as directed by engineer in-charge :				
5	064052	Rail section of 52Kg and above	Each	600.00	145.71	87426.00
		Assembling and Laying of Improved Switch Expansion Joint (SEJ) on PSC sleepers of any rail section as per RDSO drawing including leading of SEJ rails, sleepers, fittings for a free lead of 250 metres, cutting of rails, drilling of holes as required and lubrication of SEJ, gauging, aligning rails, providing temporary connection with adequate welding gap with adjoining rails, providing reference posts at SEJ, first through packing of SEJ portion to make track geometry fit for 30 kmph speed and making ballast profile as per IRPWM. Note: (1) Rail cutting and hole drilling shall be paid separately.(2) One set comprise complete SEJ on both rails at SEJ.				
6	065032	Under Traffic Block Conditions	Set	6.00	8955.12	53730.72
7	083030	Boxing and profiling of ballast as per procedure prescribed in latest edition of IRPWM including cess dressing on both sides of track. The work will include removing excess ballast from track and putting the same in crib and shoulder by leading to a maximum of 50m including crossing of track, deweeding on ballast section etc and as directed by Engineer-In charge.	TRM	5025.00	31.04	155976.00
8	092030	25mm gap 'in-situ' welding during traffic block using Railway's welding portion & Welder and finishing of weld to meet the prescribed tolerances and pass all stipulated tests with all required labour, materials, consumables, tools, equipments etc. to complete the work in all respect as per IR's "Manual for Fusion Welding of Rails by Alumino - Thermic Process" with latest correction slips, including marking of welded joint, painting weld collar with anticorrosive paint, restoration of track near weld joint to original position and fixing of joggled fish plate at new weld, to be removed after passing of weld in USFD test as directed by Engineer in charge. Note: 1. Only welding portion and related accessories as per Annexure - I and Welder shall be supplied by Railways. 2. Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing. 3. Required nos. of Joggled fish plates shall be supplied by Railway at nearest P. Way Stores and the same shall be returned at nearest P. Way Store or at other location as per direction of Engineer-in-Charge after release from track.	Each	62.00	1997.27	123830.74

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		25mm gap Cess Welding with Railway's welding portion and finishing of weld to meet the prescribed tolerances and pass all stipulated tests with Contractor's labour, materials, consumables, tools, equipments etc. to complete the work in all respect as per IR's "Manual for Fusion Welding of Rails by Alumino - Thermic Process" with latest correction slips, including all required handling and rehandling of rails, marking of welded joint, painting weld collar with anticorrosive paint, as directed by Engineer in charge. Note: 1. Only welding portion and related accessories as per Annexure - I shall be supplied by Railways. 2. Welding shall be carried out only by trained welder having valid competency certificate. 3. Hydraulic Weld trimmer shall be used for chipping and profile Grinder for finishing.				
9	092052	For 60 Kg/60EI-R260 grade Rail, Single shot crucible fitted with Automatic Tapping Thimble, 3 pieces Mould (Zircon washed) and Compressed Air Petrol/LPG pre heating technique.	Each	50.00	1406.47	70323.50
10	121010	Dismantling of existing LWR/SWR track of any structure, removing rails, sleepers, fish plates, cutting of rails, segregation and stacking of released Rails, Sleepers and fitting at nominated location in countable manner within a free lead of 500m, levelling of ballast to correct profile for laying new track over it, all as per direction of Engineer-in-Charge.	TRM	3965.00	249.73	990179.45
		Shifting & pairing of rails / panels unloaded alongside existing running track to adjoining formation of a new line including crossing of one track, duly lifting & pushing rail / panel without damaging it and taking all necessary precautions, so as not to infringe the running track, as directed by Engineer in-charge. Note: The rail barricading, if disturbed during working, should be restored to its original condition by the agency including re-fixing & concreting as required.				
11	122015	For rails/panels of more than 40m length - Under Traffic	RM	6550.00	51.16	335098.00
		Providing Centre Line / Rail Level, reference Pegs on formation at an interval of 30 metres on one side or at centre of proposed / existing track, as directed by engineer in-charge for linking of new track / CTR / Deep Screening / Lifting / Lowering works, duly embedding in formation including marking with contractor's paint. Note: (1) Rails/tie bar of suitable size bar shall be supplied by the Railways from nearest Stores Depot. In case of hard wood peg, the hard wood will be supplied by the contractor. (2) Excavation and concrete work, if required, will be paid separately.				
12	123011	With Rail pegs	Each	150.00	161.15	24172.50
13	123013	With contractor's hard wood pegs of 50 mm dia and 60 cm long	Each	200.00	189.40	37880.00

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

14	123030	Spreading of ballast, from existing stacks available along formation on top or at cess, in required uniform thickness, compaction of ballast layer laid on new formation at all the locations with smooth wheeled power roller of 8-10 tonne capacity to sufficient number of passes to form consolidated ballast bed of approximately 250mm thickness to a width of 4m symmetrical to centre line of proposed track in correct line & level with all ascents & descents, as directed by Engineer in-charge. Note: Item is inclusive of (a) providing ramp for taking roller to formation and removing the same & making good formation after completion of work; (b) redistribution & leveling of excess ballast while rolling to obtain uniform plane cambered surface.	cum	4675.00	52.24	244222.00
		Linking of BG track (except at LC, Bridges and SEJs) with any type of rail section and sleeper of specified density, on ballast bed spread and compacted with suitable roller, over prepared formation including leading free rails/welded panels available along the alignment on to formation, leading and spreading all fittings and fastenings, spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item.				
15	123041	For sleeper density of 1660 sleepers per km	TRM	4050.00	399.07	1616233.50

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

16	123060	Linking of BG track (with guard rail) over ballasted deck bridges with any type of rail section and PSC sleeper including leading free rails/welded panels available along the alignment on to bridge, leading and spreading all fittings and fastenings, leading & spreading of sleepers at specified spacing, squaring, placing of rails over sleepers and fixing rails & guard rails to sleepers with all types of fittings and fastenings to correct gauge & alignment, lubrication of fittings and fastenings with contractor's grease as per IRPWM standards with contractors labour, tools, consumables, with all lead, lifts etc. complete and raising, levelling and initial packing of track to make it fit for 30 kmph and meet other prerequisites prescribed in Indian Railway Track Machine Manual for deployment of Tamping Machine. Note: 1.Rail cutting and Hole drilling shall be paid separately. 2.Spreading of ballast and compaction shall be paid separately under relevant item. 3. This item shall be applicable only when track is with Guard Rail. Linking without guard rail be paid under relevant item for plain track linking.	TRM	168.00	505.32	84893.76
17	123080	Carrying out cut & connection to the existing PSC sleeper track under line block of any rail section and sleeper density to connect the same to newly linked track which is laid by the side, duly carrying out cutting of rails, insertion of additional PSC sleepers, if required, providing fish plated joints including drilling of holes, slewing required length of both tracks to prescribed alignment, adjusting sleeper spacing, providing continuity to track, spreading of ballast to provide cushion, shoulder ballast to the track stretch, giving one round of initial packing to make track fit for 20 kmph speed and boxing of ballast to profile as directed by Engineer in charge.	Each	8.00	77061.39	616491.12
		Shifting / Slewing the existing or newly assembled track of any rail section with any type of sleepers and any density under line block to correct locations & alignment and attending to one round kutcha packing to run safely at 20KMPH speed with all contractors tools and consumables complete and as directed by Engineer in-charge.				
18	123091	Maximum Shifting / Slewing up to 1 metre	TRM	600.00	245.68	147408.00
19	123092	Maximum Shifting / Slewing for more than 1 metre & up to 2 metres	TRM	650.00	294.91	191691.50

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		Providing Caution Watchman at a location where caution order is imposed and ensuring to be on continuous vigil and exhibit necessary hand signals to the trains for their passage over caution spot. Note: 1) Prescribed protection equipment shall be supplied by Railways and the same shall be returned after work is over. 2) If Contractor fails to post watchman at any time during one day, penalty at double the accepted rates will be levied and 3) The watchman nominated by the contractor will be screened for suitability as per Railway norms.				
20	124031	For one shift (12 Hrs)	Each	80.00	1387.44	110995.20
		De-stressing of LWR/CWR track of any density under traffic line block with contractor's labours, tools, equipments and consumables inclusive of all lead & lift. Activities include cutting of LWR/CWR into convenient panels of specified length, removal of ERCs, liners, greasing of ERCs and liner contact area, lifting rails and keeping them on rollers provided at every 15 sleepers, working out elongation of rail ends depending on prevailing site conditions, pulling rails with the help of Hydraulic Tensor to achieve the desired elongation, cutting rails, as required, removing rollers and placing rail in position, re-fixing ERCs & liners and adjustment of gap at SEJs : Note: (1) Welding of rail joints will be paid separately. (2) Rail cutting and Hole drilling shall be paid separately. (3) Opening and closing of LC if required will be paid separately. (4) As per procedure prescribed in latest edition of IRPWM & CE's Circulars for destressing of LWR/CWR, if any.				
21	135013	Without Rail tensor	TRM	5025.00	55.53	279038.25
		Anti-corrosive painting of rail outside track on rail bottom, web, foot and fishing plane with two coats of thickness of 100 microns each by bituminous black paint confirms to IS-9862 of reputed make including surface preparation, as a complete job as per procedure prescribed in latest edition of IRPWM.				
22	137011	For 60 Kg Rails	RM	8430.00	63.12	532101.60
		Painting 2 coats to various P.Way Reference Post, Structures etc. with enamel paint of approved make with 2 coats of different colours & letters, as directed by Engineer in-charge.				
23	137086	Curve Post	Each	32.00	102.44	3278.08
24	137090	Curve details, SE, Versine, Station Nos. etc. per station.	Each	374.00	60.25	22533.50

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		Carrying out pre-tamping, during tamping and post-tamping work for tamping track with all types of rails, sleepers & sleeper density by various Track Tamping machines, like CSM,DUO/3X Machines which include : (1) Re-adjustment of ballast, heaping-up of ballast, filling-up of cavities in tamping zone by picking ballast from stacks / shoulders / crib of adjoining track up to lead of 50 m to ensure effective packing; (2) Clearing of ballast on sleepers to make them visible to operator, (3) Clearing of ballast over rail foot to facilitate holding of rail by rollers of TTRM; (4) Digging, screening and replenishment of ballast at mud pumping / rounded ballast in sleeper crib location; (5) Tightening of loose fittings immediately before & after tamping; (6) Replacement of broken / missing fittings supplied by Railway; (7) Correcting displaced sleepers to position along with squaring; (8) Re-setting of worked-out / fallen fittings. (9) Removing and re-fixing joggled fish plates & wooden blocks, wherever necessary; (10) Manual consolidation of ballast in crib / shoulders; (11) Removing and refixing of traction bonds during the block in electrified sections (12) Dressing of ballast Note: 1. Tamping blocks are not identical & it may be given at any time either during day or night. 2. Stages of payment a) 30% of the rate will be paid on completion of pre tamping attention, b) Balance 70% of the rate will be paid on completion of post tamping. 3. Recovery at the rate of twice the above applicable rate will be effected in case contractor fails to carry out pre/during/post operation. 4.Payment shall be made only once in irrespective of numbers of TTRM packing round and after restoration of normal speed and restoration of complete ballast profile.				
25	155012	For night time block working	TRM	5700.00	25.28	144096.00
		Providing lighting arrangements with halogen lamps on and around machine during machine working in night time blocks, with contractor's generator, consumables, all necessary electrical fittings, operators etc. Note: 1. Lighting arrangement is to be provided as per advance planning of Night Blocks and written communication. 2. In case lighting arrangement is made available but not used due to non-availability of block, payment @ 60% of the item rate shall be made. 3. In place of Halogen, LED lamps of equal lumen capacity may be used with the approval of Engineer - in-Charge. 4. If lighting arrangement fails during block, recovery shall be made twice the rate per day.				
26	157032	CSM / DUO / 3X with or without DGS (7.5 KVA generator and 8x500 W)	Night	20.00	6219.40	124388.00

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		Quick cutting with abrasive rail cutter of all types of rail sections including wear resistant, head hardened rails up to 110 UTS, with contractors tools & plants, equipment, consumable with all lead & lift etc. complete as directed by Engineer in-charge. Abrasive Rail Cutter will be as per RDSO Specification No. TM/SM/1 (Rev. 01 of 2012) with latest status of RDSO; Rail Cutting Wheel Abrasive Disc will be as per RDSO Specification No. TM/SM/2 (Rev. 01 of 2020)				
27	161011	60 Kg - 110/90 UTS - Outside Track	Each	80.00	206.48	16518.40
28	161014	60 Kg - 110/90 UTS - On Running Line	Each	70.00	263.21	18424.70
		Drilling holes of 16 mm to 32 mm dia. with Rail Drilling machine including chamfering with appropriate chamfering tools in all types of rail section with contractor's tools & plants, equipment, consumable with all lead & lift etc. complete, as directed by Engineer in-charge. Rail Drilling Machine will be as per RDSO Specification No. TM/SM/3, dated 24.04.1991.				
29	161041	Outside Track	Each	104.00	77.60	8070.40
30	161042	On Running Line	Each	62.00	96.45	5979.90
		Loading of rails of any section and length up to 13 metres in Wagons / Truck / trailer including lead up to 50 metres and lift up to 5 metres.				
31	171014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck/trailer.	MT	550.00	161.08	88594.00
		Unloading of rails of any section and length up to 13 metre, in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/trailer including lead up to 50 metre, lift up to 5 metre and stacking in prescribed manner.				
32	171053	From Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer.	MT	395.00	118.81	46929.95
		Loading of 52kg / 60kg PSC normal line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in a neat manner to departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track with free lead up to 250 metre and lift up to 5 metre, if required with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
33	172014	In Wagon where mechanical handling is possible and traffic block is not required or in Truck / trailer	MT	1648.00	127.10	209460.80

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

		Loading, leading and unloading of all types of P.Way fittings and all other miscellaneous material except Rails, sleepers, switches, crossings, SEJs and Glued joints by road vehicles for different leads. Note: Lead shall be the shortest motorable road length between the points of loading and unloading.				
34	172047	Lead beyond 100 Km and up to 150 Km	MT	26.00	1147.59	29837.34
35	172048	Extra for every Km per MT beyond 150 Km over item no. 172047	MT-Km	13188.00	3.82	50378.16
		Transportation of Rails, sleepers, switches, crossings, SEJs and Glued joints by road vehicles for different leads. Note: 1. Lead shall be the shortest motorable road length between the points of loading and unloading. 2. Loading and unloading shall be paid extra under relevant items.				
36	172051	Lead up to 5 Km	MT	1656.00	72.57	120175.92
37	172057	Lead beyond 100 Km and up to 150 Km	MT	1648.00	1008.61	1662189.28
38	172058	Extra for every Km per MT beyond 150 Km over item no. 172057	MT-Km	841620.00	3.82	3214988.40
		Unloading of 52kg / 60kg PSC line and special sleepers up to 2.75 metre length in Depot / Station / Mid-section between stations in neat manner for Railway usage from departmental material train (DMT) or contractor's / Railway's Truck/Trailer with crane or any other means including crossing of one track and lead up to 250 metre & lift up to 5 metre with contractor's labour, tools & plants, machinery, consumables etc. Note: In case of any damage to sleeper during loading, penalty @ 50% of the all inclusive cost of sleeper shall be levied.				
39	172063	From Truck / Trailer	MT	3300.00	115.04	379632.00
40	181020	Dismantling existing check rail of Level Crossing, blocks, bolts & nuts and stacking these in a countable manner near LC, free from any infringements as directed by Engineer in-charge.	RM	24.00	217.32	5215.68
41	181030	Dismantling exiting Rail Height Gauge carefully and stacking the released material in countable manner, free from any infringements as directed by Engineer in-Charge including removal of cement concrete foundation and making surface clean.	Each	1.00	4365.86	4365.86
42	183040	Fixing check rails to running rails on level crossings with MS brackets, MS packing plates, bolts & nuts, spring washers etc. including lubrication as per approved drawing & specifications, as directed. Rails, MS brackets, packing plates, bolts & nuts, spring washers will be supplied by Railways. Note: One set consists two check Rails.	Set	3.00	6006.84	18020.52
		Painting speed breakers with paint of approved quality & colour over the Bituminous/ Concrete surface near approaches to level crossing.				
43	184021	With enamel paint (two coats)	Sqm	15.00	115.20	1728.00

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

44	185010	Dismantling of existing rail fencing, fixed adjoining running lines of track, duly excavating and levelling the foundation by hand compaction, removing connections and carting the released material up to a lead of 250m by suitable means and stacking the same, as directed by engineer in-charge. Note: The released materials shall be handed over duly stacking the same in measurable fashion.	MT	5.20	1607.72	8360.14
45	186030	Paving of level crossing road surface with Railway's precast RCC slab / blocks as per standards / approved drawings for light and heavy vehicles on bed of sand, moorum or gravel, duly compacted and joints filled with mixture of sand & tar/bitumen in proportion of 1:2 by weight.	Sqm	30.00	316.41	9492.30
46	186040	Removal of RCC slab in existing level crossing portion and in between tracks along with stacking them in countable manner, as directed.	Sqm	30.00	61.62	1848.60
47	186060	Provision of one Asphalt Speed Breaker Rumble Strip on each side of the approaches of manned level crossings as per approved drawing including painting two coats with paint of approved quality and colour.	RM	50.00	644.04	32202.00
48	186200	Erecting Emergency Chain Posts for level crossings , including cutting rail to required length varying from 1.00M to 1.50M , drilling holes, providing hooks & links / rings with necessary locking arrangements to fix emergency chain, leading the rail pieces from nominated station / mid section from nearest depot to site of work, erecting the rail post by making the pit of size as required and filling with CC 1:3:6 mix with 40mm aggregates and painting the rail post with two coats of synthetic enamel paint of approved colour and make, with contractor's materials, labour, paint, all lead and lifts, etc., complete as per specifications and as directed by the Engineer-in-charge. Note: (1) Rails & chain will be supplied by Railways. (2) Excavation and concrete work for foundation will be paid under relevant item.	Each	2.00	934.00	1868.00
49	194010	Manufacture of flared portion of Guard Rail by cutting and bending to required shape & RDSO's approved drawings. Note: (1) Rails shall be supplied by Railways. (2) One set consists of two rails i.e. both left and right.	Set	4.00	5104.94	20419.76

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

50	194020	Providing and fixing of flared portion of guard rails of any rail section over PSC sleepers including fixing of with all fittings, including leading of rails and fittings, squaring and adjusting spacing of sleepers as required, providing nose blocks duly cutting wooden blocks supplied by railways and fixing it with bolts of 16mm dia as directed complete and finished as per RDSO's approved drawing. Note: 1.One set consists of LH & RH side rails of one end. 2.Required P.Way fittings will be supplied at SSE stores depot.	Set	4.00	4406.00	17624.00
		Erection or removal of temporary Engineering Indicator Board or any other board at specified locations without causing infringement to track etc. complete and as directed.				
51	211021	For erection	Each	28.00	299.87	8396.36
52	211022	For removal	Each	28.00	246.48	6901.44
53	211070	Providing and erecting water proof Gypsy Tent of size 3m x 3m for a specific period of time and removal of the same after completion of work or as directed by Engineer in-charge.	Day	48.00	3842.76	184452.48
		Providing furniture temporarily at site work in good condition at different locations as per direction of Engineer In-charge and removing the same after completion of work.				
54	211081	Office Table of size 1.2m x 0.9m per day	Each	32.00	127.77	4088.64
55	211082	Office Chairs with cushioned seat, back and arms per day	Each	240.00	57.14	13713.60
56	211130	Providing and fixing Trolley Refuge of size 3.0m x3.0m on cess, placing with released unserviceable PSC sleepers and keeping them at all four sides of refuge and also placing as matting inside the refuge by keeping them in upside down position with a minimum of 14 sleepers including levelling with earth, excavation, all lead and lift, crossing of tracks, leading the sleepers with in a free lead and lift, handling etc., with all contractor's men material complete and as directed by the Engineer-in-charge. Note: Earth-work will to be paid separately under relevant item.	Each	26.00	5740.03	149240.78
		Hiring of machinery for minor miscellaneous works for short duration including operator/driver, fuel, lubricants and consumable. The contractor shall arrange all statutory permits as required by rules and regulations prevailing in the area of work. Payment shall be made for actual working hours at site.				
57	211201	JCB Backhoe Loaders 3DX Plus or similar with minimum 1.10 cum bucket capacity	Hour	270.00	975.39	263355.30

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

58	211210	Arranging labour as and when required by the Engineer in charge, for various works under SSE/P.Way, with contractor's T&P, equipments, hand signal flags, etc. as per specifications, special conditions and detailed scope of work as furnished in the tender and as directed by the Engineer in charge. Note: Item shall be operated with prior approval of concerned Sr. DEN / DEN in charge.	Day	320.00	830.52	265766.40
59	211260	Manufacture and supply of Precast Kilometer Posts of size 1.15 x 0.50 x 0.075 m in RCC 1:2:4 mix, engraving letters and leading to work spot, fixing in position with CC 1:3:6 concrete duly making pits of size as required, painting the post, writing the letters on both sides of the post with 2 coats of enamel paint of approved quality to the Railways drawings/IRPWM with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	4.00	633.05	2532.20
60	211270	Manufacture and supply of Precast gradient Posts of size 1.65 x 0.60 x 0.075 m in RCC 1:2:4 mix, engraving letters and leading to work spot, fixing in position with CC 1:3:6 concrete duly making pits of size as required, painting the post, writing the letters on both sides of posts in 2 coats with enamel paint of approved quality to the Railways drawings/IRPWM with contractor's materials, cement, steel, labour, tools, plant, with all lead and lifts etc., complete as per specifications and as directed by the Engineer-in-charge. Note: Excavation, Concrete and steel work will be paid under relevant items.	Each	24.00	776.23	18629.52
					Total	13255781.59
Schedule	Schedule H-Items of works that are NOT covered by the Southern Railway USSOR, 2021.					
Item- 8	For P-way works for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Unloading 60Kg rail panels at the sites of work from Railway wagons as directed by the Engineer in charge of the work including spreading the same at the cess of the formation not to infringe the running vehicles with all lead and lifts, consumables, crossing the track where lever required etc. complete. (The contractor has to provide adequate trained men to complete unloading quickly within a short block of time and he will not have any claim for idle labour due to non-availability of power on some occasions. If required depending upon the availability of block unloading will have to be done at night also for which no extra rate is admissible. (Contractor has to arrange chains with sufficient strength and wire ropes for unloading the rails from BFRS).	MT	395.00	400.00	158000.00

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

2	2	Leading of 50mm size stone ballast from the stacks available alongside the alignment, dumping the same on the track etc. complete and as directed with all leads and lifts and crossing of tracks/roads as required. (All labour, tools and consumables by Contractor). (Payment made based on stack measurements already recorded). NOTE: 1. Dumping of ballast shall be done as directed by the Engineer in-Charge. 2. Dumping of ballast shall be done to achieve final cushion and section in various stages as directed with a maximum lead between 0-300M. 3. Rate for boxing will be paid separately after boxing the ballast to correct profile vide relevant item in the Annexure.	10 cum	9400.00	1663.00	1563220.00
3	3	Extra over item above for leading of stone ballast where the lead involved is more than 300m and up to 2 km.	10 cum	3700.00	591.00	218670.00
4	4	Transporting of 50mm railway's stone ballast by means of Contractor's own lorry including loading by mechanical means or manually which includes extra for loading the ballast in stacks available along side of formation or in yard or in nominated locations of stacks available into road lorry and loading and unloading at suitable location with an average lead of 23 km by contractor's own road lorry, loading machinery etc. and sectioning/ boxing the unloaded ballast to correct profile etc. complete and as directed. (All labour, rail & road lorry, fuel, consumables by contractor. Payment by pre-stack measurements) Lead more than 2km up to 23Km at nominated location.	10 cum	7678.00	2166.00	1663054.80
5	5	Casting, supplying and fixing RCC Hectometer posts as per drawings No.SR/CN20914 in M25 mix with 20mm graded size metal and fixing at various locations adjacent to running track in the formation with cement concrete foundation of size 0.30 x 0.30 x 0.40m with 1:2:4 mix including earthwork excavation and applying one coat of white synthetic enamel paint of approved quality on one side and writing numbers on other side of posts with black synthetic enamel paint duly plastering the surface for 12mm thickness with all leads and lifts etc complete and as directed. (All labour and materials and tools and plants by contractor except CEMENT and STEEL which will be paid separately under the relevant item of relevant Annexure).	Each	51.00	2808.00	143208.00

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

6	6	Manufacture, supply and erection of RCC curve board of size 0.75m x 0.45m x 0.060m as per DR. No. DYCE/GC/SUB/MS/45-2000/1 including two coats with contractors approved quality and colour paint writing curve particulars etc; complete and transportation from casting yard to site of work, excavation and erection at locations as directed by the Engineer in-charge. (All labour and materials by contractor, except cement and steel which will be paid under relevant Annexure).	Each	20.00	2808.00	56160.00
7	7	Removing and rooting out the bushes along the formation, side drains and in cutting side slopes and cropping vegetation at ground level mechanically or manually without disturbing the roots on embankment slopes and clearing the dead vegetation generated, away from the toe without affecting function of side drains or catch water drains, etc. complete. Note:-The area for operating this item should be recorded before carrying out and certified area for which the work has completed only will be paid under this item.	100 Sqm	16375.00	819.00	134111.25
8	8	Fixing reference pillars for LWR/CWR with released rails of length up to 1.25m including cutting, erection, concreting the base with CC 1:4:8 mix [0.30x0.30x0.45m] with earth work excavation, supply of all materials excluding cement, and painting and providing reference marks, etc. complete and as directed by Engineer-in- charge. [Rails of available length only will be supplied by Rlys. At the stores depot. All other labour, tools and plants by the contractor].	Set	6.00	574.00	3444.00
9	9	Hiring of road lorry up to 10 tonne capacity for transporting men, materials including all consumables and crew for maximum running of 100 km.	Day	20.00	6887.00	137740.00
10	10	Extra for each km. beyond 100 km for the above item in a day.	Kilometre	350.00	41.90	14665.00
11	11	Providing necessary technical people and semi skilled persons consisting of two technical persons with adequate computer literacy (should be well versed in MS Excel and MS word) and having a qualification not less than graduation/diploma and two semi skilled labour daily - in total a team of four people for taking TMS details of the newly laid track on the Performa given by Railways and enter the details in to computer whenever asked by railways up to the satisfaction of the representative of the Engineer in charge of the work, Necessary stationeries like registers, books, A4 papers etc. have to be purchased/made by the contractor as per Railways proforma at his own cost.	Day	24.00	6786.00	162864.00

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

12	12	Fixing by transferring the coordinates of various track linking locations (SRJ, HOC, tangent of curve, curve alignments and centre line of track etc.) and fixing the proposed alignment from the approved AUTOCAD plans to ground by using total station as directed by Engineer-in-charge and fixing temporary pegs using M.S cut rod of 8mm dia. and approximately 50cm long (the same can be taken back as the property of contractor after fixing permanently). (All equipment, men, material, consumables, tools and plant to be supplied and is the responsibility of the contractor).	Day	14.00	28761.00	402654.00
13	13	Supply of HSD oil for machine packing from the nearest outlet including cost of diesel and loading transporting as per the requirement of machine staff. Rate including return of empty barrel. Note: unit of this item is per barrel of 200 Litres.	Per Unit	24.00	26200.00	628800.00
14	14	Deployment of labour (Skilled labour) with sufficient experience on p.way maintenance for caring out the piecemeal works in points and crossing, LCs and any other location found required for the safe maintenance etc. complete. All tools & plants required for the work by the contractor.	Man-Days	365.00	1101.00	401865.00
15	15	Deployment of labour (Semi Skilled labour) with sufficient experience on p.way maintenance for caring out the piecemeal works in points and crossing, LCs and any other location found required for the safe maintenance etc. complete. All tools & plants required for the work by the contractor.	Man-Days	365.00	951.00	347115.00
16	16	Rail hurdle fencing 90R/52kg released Class-III rails upto 2.00m interval with including cutting the rails and drilling the holes, fixing in position of vertical in position CC 1:2:4 mix of size not less than 600x600x750mm including erection of rail posts in concrete base and painting one coat of enamel paint with black and yellow colour with all leads and lifts etc. complete and as directed. (All labour and materials by contractor except cement which will be paid separately under relevant Annexure). Rails only will be supplied by Railway at the nearest store depot or available location.	Metre	150.00	887.00	133050.00
					Total	6168621.05
Schedule	Schedule I-Items of works that are NOT covered by the Southern Railway USSOR, 2021.					
Item- 9	For conducting CHUM test including supply of MS access tube, casting & launching of precast RCC slab, coating with epoxy IP net paint, conducting RSI analysis & miscellaneous work for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

1	1	Conducting pile integrity test with cross holes(two diametrically opposite longitudinal holes along the pile shaft) ultra sonic monitoring (Chum)method in cast in situ bored piles by approved specialized agency having necessary experience and expertise. The rate shall include hiring of trained professional & equipment, on site testing of piles, transportation, analysis of data recorded during test, preparation and submission of report. The rate shall include cost of labour, consumables, transport, hiring charges, taxes etc. all complete. Note:1. Total number of vertical access tubes in pile foundation should be chosen as per Guidelines for Integrity Testing of Piles BS-41 R1November 2023 as corrected up to date . 2. The rate is inclusive of grouting the pipe cavity in piles using self compacting concrete after CHUM testing as per requirement of Engineer in charge.	Each	100.00	31324.00	3132400.00
2	2	Supply, Fixing of 40mm/50mm nominal bore medium class MS pipe including all consumables and endcaps for conducting cross hole ultra sonic monitoring (CHUM) test.	Kg	37300.00	138.00	5147400.00
3	3	Casting of precast RCC slab units of specified sizes at bridge site with hook arrangements for handling using cranes in M35 (Design mix) with 20mm graded granite aggregate including fixing and removal of contractor's form work and supports, cutting, bending and placing of steel reinforcement in position including the cost of binding wire and curing etc. complete and as directed. (All labour, materials by contractor except Cement and Steel which will be paid separately under relevant item and Annexure of this schedule.	cum	367.00	9282.00	3406494.00
4	4	Launching of the pre-cast RCC slabs of specified size with ballast retainer available at the approaches of the bridge over the newly constructed abutment/pier in correct position, level and alignment duly leading the slabs by contractor & apos;s launching method approved by Railway with contractor & apos;s own equipments with all leads and lifts etc. complete and as directed. (All labour, materials, tools and plants, machineries etc. by contractor).	cum	367.00	2914.00	1069438.00
5	5	Providing and laying in position machine mixed, machine vibrated and Design Mix Cement Concrete M20 or higher grade (Cast - in Situ) using 20 mm graded crushed stone aggregate and coarse sand of approved quality in wearing coat for RCC slab / RCC box bridges Including finishing complete as per specifications and direction of the Engineer in charge. Payment for cement shall be paid under relevant Annexure.	cum	50.00	4830.00	241500.00

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

6	6	Supplying and laying 150mm geo cell conforming to IS 17483 part 1 of 2020) in three layers with a blanket cushion of 50 mm between layers as per drawing No GE/SK/GL/912A/Rev 0/2024 of RDSO for backfilling of approaches of major bridges including hand compaction of intermediate and bottom layers of geo cell with plate vibrators etc complete and as directed by the Engineer In charge. (the infill blanket material shall be paid separately vide relevant item). All specifications shall be as per RDSO Report No. GE: R-50- Revision 2.	Sqm	2400.00	829.00	1989600.00
7	7	Supply and laying of mechanically bonded polypropylene Non woven geo textile as filter media behind gabion facia/ Retaining wall units as per MORTH 700 specifications for harsh conditions, including transportation, contractor & labours, lead and lift complete as per directions of the Engineer-in- Charge.	Sqm	1934.00	159.00	307506.00
8	8	Conducting Rail Structure Interaction (RSI) Analysis using MIDAS - CIVIL software in CLT-MAQ Section and submitting reports from agencies undertaking RSI, including submission of soft copies of report of the same with contractors consumables, gadgets, men, materials etc as approved by Engineer in Charge.	Each	3.00	29500.00	88500.00
9	9	Surface preparation and protective coating with epoxy Phenolic IP Net (Inter-Penetrating Polymer network) paints as per the specifications from CBRI, Roorkee including priming Coat ,intermediate coat & polyurethane top coat on exposed surface and with contractors labour, materials, equipment's etc. complete and as directed by the engineer in charge. The sample will be got tested at tenderer/Contractor's cost from reputed laboratories of CSIR/RDSO. Material properties, execution method, testing details and quality certification to be done as per BS- 88R.	Sqm	1530.00	696.00	1064880.00
10	10	Removing of the cables of any size and nature viz. Signal/Telecom/ Electrical (HT or LT) existing below Ground Level including casing of trough without causing any damage to the cable including excavating the earth up to the cable, refilling the earth after the removal of cable and placing the cable on the ground with all leads and lifts etc. complete and as directed. (All labour, materials, consumables, tools and plants, machinery by Contractor). Signal and Telecom Cables. Depth 1m and up to 2m.	Metre	2200.00	160.00	352000.00

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

11	11	Relaying of the cables of any size and nature viz. Signal/Telecom/ Electrical (HT or LT) existing below Ground Level including casing trough without causing any damage to the cable including excavating the earth to the required depth, upto a maximum of 1m) and filling back the same earth after laying the cable, without causing any damage to the cable with all leads and lifts etc. complete and as directed. All labour, materials, consumables, tools and plants, machinery by Contractor.	Metre	2200.00	102.00	224400.00
					Total	17024118.00
Schedule	Schedule J-Items of works that are NOT covered by the Southern Railway USSOR, 2021.					
Item- 10	For supply of ballast for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Collection and Supply of 50mm size hard Machine crushed stone ballast to Railway Specification from approved quarries outside the Railway limits and stacking the same at places over the formation in convenient stacks within Railway Limits for measurement with all leads and lifts etc. Complete and as directed. (Payment shall be made for the gross measurements of stacks) (No deduction will be made for shrinkage voids). (NOTE: The Tenderer/Contractor should indicate breakup details as described under special conditions of contract.) Note :- 1) Before stacking the ballast Ground level certificate to be obtained from the Officer concerned. 2) The Tenderer/Contractor has to quote his rate for the above item. 3) The Tender/Contractor submit the necessary test certificate from Railway laboratory. Necessary test charges to be born by the Contractor.	10 cum	9400.00	17170.00	16139800.00
					Total	16139800.00
Schedule	Schedule K-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.					
Item- 11	For supply of cement for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supply and using Cement at Worksite				
1	025072	Ordinary Portland Cement 53 grade of approved brands/makes	MT	2100.00	10302.12	21634452.00
					Total	21634452.00
Schedule	Schedule L-Items of works that are covered by the Southern Railway USSOR, 2021 as corrected by up to date applicable to TRIVANDRUM & PALAKKAD DIVISION.					
Item- 12	For supply of steel reinforcement for Br No. 829, 1177 & 1188.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
1	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	469170.00	132.67	62244783.90
					Total	62244783.90
Schedule	Schedule M-Items of works that are NOT covered by the Southern Railway USSOR, 2021.					

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

Item- 13 For supply of stainless steel reinforcement.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supplying High strength Deformed stainless steel bars for concrete reinforcement grade G ferritic - 410L (SS550) conforming to IS:16651-2017 including de-coiling, straightening, cutting, bending, placing in position, binding with 1mm dia. stainless steel binding wire etc complete. Note: (i)Reinforcement, shall be measured in length for different diameters used in the works and then paid as per standard weights as per IS16651. Wastages, Couplings, welded joints, space bars, and binding wire shall not be measured and cost of these items shall be deemed to be included in the rates.	MT	431.00	180000.00	77580000.00
					Total	77580000.00

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

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or "V" whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)
1.1	Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI	No	No	Allowed (Optional)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (a)Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (b) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (c)One similar work each costing not less than the amount equal to 60% of advertised value of the tender.(EXPERIENCE CERTIFICATE) The single similar work as defined in Tender Notice/Tender Document)	No	No	Allowed (Mandatory)

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

1.1	(i)In case of composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender. Note: Separate completed works of minimum required values for each component can also be considered for fulfilment of technical eligibility criteria. (ii)In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity. Any work or set of works shall be considered to be a separate component, only when cost of the component is more than 2 crore each.	No	No	Not Allowed
1.2	SUB SECTIONING ELIGIBILITY CRITERIA: [A]If, Sub-sectioning as indicated in the NIT has been done with a view to expedite the works and in view of the sub-sectioning, if eligible tenderer/firm becomes L-1 only in one tender, the tender will be awarded to the lowest eligible tenderer/firm. (OR) If the tenderer/firm becomes L-1 in more than one tender for the same nature of work invited for the same project in the same tender notice, then Evaluation of Tenderer/firm for his/its eligibility for award of all such tenders shall be done, duly considering the work experience of 35 percent of combined value of such tenders and Financial capability of 150 percent of combined value of such tenders, in which the tenderer/firm is L-1. [B] In case the tenderer is lowest in more than one tender under consideration, however, falls short of above sub-sectioning eligibility criteria, then the tenderer will be considered for awarding any of the work at the sole discretion of the Railways. The decision of the Railway will be final and binding on the tenderer	No	No	Not Allowed
1.3	Defination of Similar Work :- "Any Civil Engineering work involving construction of Bridges with PSC superstructure on any type of foundations with minimum individual span of 12.2m or minimum overall span of 18.3m excluding Foot over Bridge"	No	No	Not Allowed

Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)
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Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.

S.No.	Description
1	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. Please submit a certificate in the prescribed format (please download the format from the link given below). 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 Certification)

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.

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	ANNEXURE-XVI	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Annexure IX Details of Bank Particulars.	Yes	Yes	Allowed (Mandatory)
2	Annexure XII Form -JV-1 Format for Power of Attorney for Authorised Signatory (if applicable in original or attested copy).	Yes	Yes	Allowed (Optional)
3	Annexure XIII Form -JV-2 Format for Power of Attorney to lead partner (if applicable in original or attested copy).	Yes	Yes	Allowed (Optional)
4	Annexure -XIV Form - JV-3 Format for Draft M.O.U. (if applicable).	Yes	Yes	Allowed (Optional)
5	Annexure XV Form - JV -4 Draft format for Agreement (in the required proforma in original if applicable).	Yes	Yes	Allowed (Optional)
6	Annexure-III Constitution of the Firm with required document copies i.e., Joint Venture / Partnership Deed(s), Incorporation of Company etc.,	Yes	Yes	Allowed (Optional)
7	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	Payment towards the Bid Security as indicated in the NIT header should be paid only through the E-Payment facility (i.e.) Net banking or Payment Gateway provided in the IREPS web portal.	No	No	Not Allowed
2	If the date of opening of tender is declared a holiday at a later date, the tenders will be opened on the next working day.	No	No	Not Allowed
3	Failure to furnish the Bid security exclusively for each work will result in offer becoming invalid.	No	No	Not Allowed
4	Only one representative/tenderer is permitted to attend the tender opening, irrespective of number of tender documents submitted on a particular day of opening.	No	No	Not Allowed
5	Tenderers/Representatives are requested to attend the tender opening in time and also to keep their cell phones switched off while attending.	No	No	Not Allowed

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

6	Tenderer/representatives are not permitted to enter the premises after the prescribed time for opening of tenders (i.e. after 15.30 hrs). The tenderer who have participated in the tender can view the rates of all the tenderers after opening of tenders.	No	No	Not Allowed
7	Tenderers shall hold the offer open for acceptance for a minimum period of 60 days for single packet/90 days for two packet tenders from the date of opening of the tender	No	No	Not Allowed
8	All documents in support of fulfillment of eligibility criteria should be uploaded along with the tender. Tenders without documentary evidence in support of eligibility criteria will be summarily rejected. No post tender communication, in any form will be made or entertained, after opening of tenders. The tenderer shall have no claims in this regard.	No	No	Not Allowed
9	E-Tender Shall be rejected if it is not accompanied by Bid Security	No	No	Not Allowed
10	Unreleased EMD/Bid Security, if any, held with the Railway Administration, shall not be adjusted towards the Bid security to be remitted.	No	No	Not Allowed
11	If the Tenderer deliberately gives wrong information in his/their tender or creates/create circumstances for the acceptance of his/their tender, the Railway reserves the right to reject such tender at any stage. The entire Bid Security with Railway will be forfeited. In addition, may also lead to any other action provided in the contract including banning of business for a period of upto two year	No	No	Not Allowed
12	All terms and conditions in the tender documents are binding on the tenderers. Manual tenders sent by Post/FAX/Courier or in Person SHALL NOT BE ACCEPTED.	No	No	Not Allowed
13	Railway reserves the right to accept or reject any or all the tenders and to award the work in whole or in part without assigning the reason for any such action. The General Conditions of Contract governing the performance of the works covered by this tender are the Indian Railway Standard General Conditions of Contract as amended from time to time up to date. A soft of copy of the Indian Railway Standard General Conditions of Contract is uploaded in the annexed documents to the tender. Hard copy may be perused in the office of the Chief Administrative Officer/Construction/ Southern Railway/Ernakulam Jn-682016. In submitting his tender it would be deemed that the tenderer has kept himself fully informed of the provision of the IRS General Conditions of Contract including all corrections and Amendments issued up to date and claim that he is not aware of any amendment or correction slip to the IRS GCC shall not be entertained.	No	No	Not Allowed
14	The tenderers are advised to visit the site of work in their own interest and acquaint themselves with the site conditions and expected quantum of work. Tenderer should refer for Special Conditions General & Technical, which are attached to the tender document in Documents attached to the tender. These special conditions form part of the tender document and will supplement to the conditions of tender already submitted by the tenderer, IRSGCC-2014 along with updated correction slips, IRUSSR-2021. Where are provisions of these special conditions are at variance with IRSGCC and other documents mentioned above, these Special Conditions shall prevail.	No	No	Not Allowed

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

15	Railway reserves the right to accept or reject any or all the tenders and to award the work in whole or in part without assigning the reason for any such action. The General Conditions of Contract governing the performance of the works covered by this tender are the Indian Railway Standard General Conditions of Contract as amended from time to time up to date. A soft of copy of the Indian Railway Standard General Conditions of Contract is uploaded in the annexed documents to the tender. Hard copy may be perused in the office of the Chief Administrative Officer /Construction/ Southern Railway/ Ernakulam Jn-682016. In submitting his tender it would be deemed that the tenderer has kept himself fully informed of the provision of the IRS General Conditions of Contract including all corrections and Amendments issued up to date and claim that he is not aware of any amendment or correction slip to the IRS GCC shall not be entertained.	No	No	Not Allowed
16	The tenderers are advised to visit the site of work in their own interest and acquaint themselves with the site conditions and expected quantum of work. Tenderer should refer for Special Conditions General & Technical, which are attached to the tender document in Documents attached to the tender. These special conditions form part of the tender document and will supplement to the conditions of tender already submitted by the tenderer, IRSGCC-2022 along with updated correction slips, IRUSSR-2021 Where are provisions of these special conditions are at variance with IRSGCC and other documents mentioned above, these Special Conditions shall prevail.	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	IN CASE OF ADVERTISED TENDER VALUE IS MORE THAN RS. 20 CRORES: Bid capacity is applicable, the tenderers should submit proforma attached in tender document. In case, the tenderer/s failed to upload BID CAPACITY PROFORMA and details along with offer, their/his offer shall be considered as incomplete and will be rejected summarily	No	No	Not Allowed
2	IN CASE OF ADVERTISED TENDER VALUE IS MORE THAN RS.50 CRORES, Electronic Reverse Auction (e-RA) method will be applicable as per guide lines issued by Railway Board vide Lr no. 2017/Trans/01/Policy/Pt-S Dt 28/3/2018.(Copy attached)	No	No	Not Allowed
3	MOBILISATION ADVANCE IS APPLICABLE FOR TENDERS OF VALUE MORE THAN RS. 50 CRORES AND ABOVE as detailed in tender document	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Ballast Test Certificate (if applicable).	No	No	Allowed (Mandatory)
2	Annexure-II Experience Certificate duly attested as per the proforma or proforma filled up and signed by the tenderer based on the details furnished in the certificate.	No	Yes	Allowed (Optional)
3	Annexure IV Statement of works on hand.	Yes	Yes	Allowed (Mandatory)
4	Annexure V List of Engineers/Personnel	No	Yes	Allowed (Mandatory)
5	Annexure VI Details of Machinery (minimum as specified in relevant technical conditions).	Yes	Yes	Allowed (Mandatory)
6	Annexure VII Form for reporting of Employment of Railway Officers.	Yes	Yes	Allowed (Optional)
7	Annexure X Proforma for No Middlemen	Yes	Yes	Allowed (Mandatory)
8	Affidavit as per ANNEXURE-XVI to be uploaded	Yes	Yes	Allowed (Mandatory)

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

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 read the conditions of tender attached hereto and agree to abide by such conditions. I/We have perused the contract documents (i.e. General Conditions of Contract, Special Conditions and Indian Railways Unified Standard Specifications (2021), Southern Railway Specifications for Materials & Works (1969) and all other specifications and the Unified Standard Schedule of Rates of the Southern Railway, 2021, CPWD DSR specification 2019 Vol. I & 2 and various schedules (Annexures), and all other documents attached to this tender) and that I/We am/are fully aware that I/We will have to perform the contract if my/our tender is accepted subject to general conditions of contract aforesaid and also subject to the Contract Documents complete aforesaid. I/We offer to do the work at the rates shown in the Annexure annexed and hereby bind myself/ourselves to complete the work in the stipulated period as mentioned in the contract documents attached from the date of issue of letter of acceptance.	No	No	Not Allowed
3	I/We agree that until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.	No	No	Not Allowed
4	Bid security in the form of Online payment/Bank Guarantee shall stand deposited in case my/our tender is accepted and forfeited without prejudice to any other right or remedies available to the Railway if: a] I/We do not execute the Contract Documents within 7 [seven days] of receipt of information from Railway that such documents are ready; b] I/We do not furnish the necessary bank guarantee for the Performance Guarantee required for the work within 60 days of receipt of the Letter of Acceptance for the work, and c] I/We do not commence the work within 15 (fifteen) days after receipt of Letter of Acceptance for the work duly furnishing a programme for executing the work to the Railway for their approval.	No	No	Not Allowed
5	I/We also hereby agree to abide by the General and Special Conditions of Contract and to carryout the works according to the specification of materials and works laid down by Southern Railway in the Tender Documents. I/We also undertake to carry out the work in accordance with the said Specifications and Conditions of Contract, and to find and provide such of the materials (other than those to be supplied by the Railway) for, and to do all such things which in the opinion of the Engineer may be necessary for, or incidental to the construction, completion and maintenance thereof and to complete the whole of the said works in the tender documents in all respects, and hand them over to you or your representatives within the period specified; and to maintain the same for the period and in the manner provided in the Conditions of Contract.	No	No	Not Allowed
6	I/We offer to do the above work at the specific rates/percentage rates quoted by me/us in the subject schedule and bind myself/ourselves to complete the work within the completion period specified from the date of issue of letter of acceptance of this tender as per the milestone statement furnished in the scope of work/Letter of Acceptance and as per the agreed programme of work. As the Tenderer/Contractor is expected to adhere to the progress of work as per mile stone statement mentioned in the scope of work and in case I/We fail in achieving the mile stone and programme, I/We understand and agree that the contract is liable to be terminated at my/our fault and cost thereof, apart from penalties for the delays imposed at the discretion of the Engineer-in-Charge.	No	No	Not Allowed

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

7	I/We uploaded the following documents as required as per the Tender Documents:- a) Partnership Deed Joint Venture Agreement details of consortium of firm (Annexure-III) etc. b) Power of Attorney. c) List of works executed year wise during the last three years along with their values. d) Credentials issued by the Department for whom the work was executed by the tenderer/s during the last three years (in the appropriate format). e) The documentary evidence from the employer/client showing the contractual amount received OR attested copy of the audited Financial Statements such as Trading, Profit and Loss Account OR Balance Sheet along with the certificate from the Chartered Accountant for the contractual amount received etc. f) Experience Certificate issued by the Department/other as permitted in the Tender Document (as shown in Annexure II). g) List of works on hand, their values and stage of completion (Annexure IV). h) List of engineering personnel employed for the work (Annexure V). i) Details of Plant and Machinery (Annexure VI). j) Reporting of employment of retired Gazetted Officers (Annexure VII). k) Declaration for employing no middle man (Annexure X).l) Ballast Test certificate (If Applicable)	No	No	Not Allowed
8	DECLARATION: I/We have examined and have no reservations to the Tender documents, including Addenda/Corrigenda issued by the Railway;	No	No	Not Allowed
9	DECLARATION: I/We declare that offer to execute all the Works in conformity with the Tender Documents;	No	No	Not Allowed
10	DECLARATION: I/We commit to submit Security Deposit and Performance Guarantee in accordance with the tender Documents, if my/our tender is accepted;	No	No	Not Allowed
11	DECLARATION: I/We commit to deploy minimum key personnel and equipments consistent with the stipulation in the relevant special conditions of the Tender Document, if my/our tender is accepted;	No	No	Not Allowed
12	DECLARATION: I/We commit to submit a detailed programme in conformity with the milestones and completion period prescribed in the Tender Documents and mile stone statements for all major activities and get these approved from the engineer prior to commencing work on such activities, and also understand that the work shall be executed as per the approved programme and the milestone statements without any deviations if my/our tender is accepted;	No	No	Not Allowed
13	DECLARATION: I/We commit to establish Testing Laboratory at the site of work with minimum Testing equipments indicated in the relevant specifications, if my/our tender is accepted; and further declare that	No	No	Not Allowed
14	DECLARATION: I/We declare that I/We am/are not banned from doing business with Railways;	No	No	Not Allowed
15	DECLARATION: I/We declare that I/We do not have any partners who are individuals or partners of firms banned from doing business with Railways;	No	No	Not Allowed
16	DECLARATION: I/We declare that I/We are not sister concerns/allied partners who were individuals or firms or partners of firms banned from doing business with Railways	No	No	Not Allowed
17	DECLARATION: I/We declare that I/we further understand and agree that if I/We were found during consideration of the tender to be a firm/individual or sister/allied concern or any individual or firms or partner of firms banned by the Ministry of Railways from doing business with Railways and ban is still in force, Earnest money deposit remitted by me/us will be forfeited in full;	No	No	Not Allowed
18	DECLARATION: I/We declare that if I/We were found during the course of execution of work to be an individual or firm or partner or firms or sister/allied concern of any individuals or firms banned by the Ministry of Railway from doing business with Railways and the ban is still in force, my/our security deposit and Performance Guarantee will be forfeited in full;	No	No	Not Allowed

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

19	DECLARATION: I/We declare that if I/We are found to be individual or firm or partner of firm or sister/allied concern of any individuals or firms banned by the Ministry of railway from doing business with Railways during the consideration of tender or during the execution of work, I/We are liable to be banned from doing business for further periods to be specified by Railways;	No	No	Not Allowed
20	DECLARATION: I/We declare that for satisfying the eligibility conditions mentioned in the Tender Documents, I/We have uploaded copies of documents along with the tender in support of my/our claim of satisfying eligibility conditions. I/We understand that I/We have to produce the original documents if so demanded by the Railways. I/We understand that if any of the documents were found to be bogus at any stage, my/our earnest money deposit (before finalisation of tender) and/or security deposit and Performance Guarantee (after awarding work) will be forfeited in full and I/We are liable to be banned from doing business with Railways for any period to be specified by the Railways and also liable for legal proceedings against me/us.	No	No	Not Allowed
21	DECLARATION: I/We declare further that I/We have submitted full details of work on hand and progress thereon and I/We understand that if the information furnished by me/us were found to be false, my/our tender is liable to be rejected and Earnest money deposit in full is liable to be forfeited. If it is found to be false at any stage, I/We are liable to be banned from doing business with Railways for any period to be specified by Railways and also liable for legal proceedings against me/us.	No	No	Not Allowed
22	DECLARATION: Further I/We understand, agree and declare that you (Railway) are not bound to accept the lowest evaluated bid or any other bid that you may receive and I/We have no claim/demand whatsoever in this regard.	No	No	Not Allowed
23	DECLARATION: I hereby declare and commit that no agent, middleman or any intermediary has been, or will be, engaged to provide any services, or any other items of work related to the award and performance of this contract. I further declare and commit that no agency commission or any payment which may be construed as an agency commission has been, or will be, paid and that the tender price will not include any such amount.	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	It may please be noted that the supplier of goods and services for the said tender/agreement would be subject to GST Act and rules applicable from time to time and rate quoted in the tender is inclusive of GST.	Yes	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCCUPTOacs10.pdf	GENERAL CONDITIONS OF CONTRACT
2	GCCACS11.pdf	GCC ACS 11
3	PARTABCWITHCS6102025.pdf	PART ABC
4	GERDSO2020PART1A.pdf	EARTHWORK 1
5	GERDSO2020PART1B.pdf	EARTHWORK 2
6	GERDSO2020PART2A.pdf	EARTHWORK 3
7	GERDSO2020PART2B.pdf	EARTHWORK 4
8	SpecificationsforTrackBallastFeb2023.pdf	SPECIFICATION OF TRACK BALLAST
9	SpecialconditionofcontractTechnical-1-22.10.18Full.pdf	SPECIAL CONDITIONS OF CONTRACT
10	pvcclause.pdf	PVC CLAUSE
11	RlyBdletter.pdf	RAILWAY BOARD LETTER
12	IntegrityPilingTest100.pdf	INTEGRITY PILING TEST

**CAO-CN-ERS-ENGINEERING/SOUTHERN RLY
TENDER DOCUMENT**

Tender No: 16-CE-CN-ERS-2026-OT

Closing Date/Time: 23/07/2026 15:00

13	MODEL BANK GUARANTEE.pdf	MODEL BANK GUARANTEE
14	welding conditions.pdf	WELDING CONDITIONS
15	829 Tentative GAD.pdf	GAD 829
16	1177 Tentative GAD.pdf	GAD 1177
17	1188 Tentative GAD.pdf	GAD 1188
18	SCOPE OF WORK.pdf	SCOPE OF WORK
19	LIST OF PLANS.pdf	LIST OF PLANS
20	ADDL SPECIAL CONDITIONS.pdf	ADDITIONAL SPECIAL CONDITIONS

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: SOUMYA S

Designation : Dy.CE/CN/G/ERS