

**SCHEDULE - B**

**Name of work: Two Years Contract for supply and maintenance of railway tracks inside and outside cargo jetty area  
(For Years 2023-25).**

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>
<b>1</b>	Supply of Old / Used rails 60/52 kg 13.00 m long confirming to T-18 Industrial quality IRS specification suitable for check rail	7.80	46250.00	M.T.	360750.00
<b>2</b>	Working of the Railway Push Trolley by arranging required semi-skilled manpower as per Railway's rules and stipulations for conducting inspections by Railway officials and as directed by Engineer in-charge Note: 1) Labourers supplied should be capable of pushing trolley in all gradients, and levels duly observing all safety precautions as per the manual 2) The labour engaged should be strong and literate 3) Minimum of one head Trolley man along with 3 assistant men shall be engaged at each time of Trolley run.] For Half day (upto 4 hours)	48.00	1510.53	Each	72505.44
<b>3</b>	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 wirebrush, scrapper / sand emery paper etc., supply & provision of anti-corrosive treatment by application of graphite grease, as prescribed by Railway under side of liners & corresponding area of rail foot & SGCI insert with ERCs and re-fixing the same as per Para-1411(5) of Indian Railways Permanent Way Manual.	75092.00	23.21	Each sleeper	1742885.32

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>	
<b>4</b>	Renewal of existing SEJ (in running line & yard) on PSC / Wooden sleepers with cutting of rails, as required and lubrication, gauging & aligning rails, providing temporary connection with adequate welding gap with adjoining rail and ensuring proper track geometry for 30kmph speed, as directed by Engineer in-charge.	12.00	5548.43	Each	66581.16	
<b>5</b>	25mm gap 'in-situ' welding and finishing of rail joints as per IR's AT Welding Manual with latest correction slips, RDSO approved welding portion and competent welder, labour, tools, equipments complete during traffic block. {Item includes use of weld trimming machine and grinding of weld finished to meet the weld tolerances and also anti corrosive painting to weld & marking of welded joint, as directed by Engineer in charge} - For 60 Kg Rail, Single shot crucible fitted with Automatic Tapping Thimble heating technique Technology, 3 pieces Mould (Zircon washed) and Compressed Air Petrol	10.00	6371.29	Each	63712.90	
<b>6</b>	Supply and replacement of Special PSC sleeper for 60kg rail section as per RDSO drawing and as per IRS specification and Laying of special PSC sleeper for 60 Kg. rail section for fixing running rail OR Running rail and check rail as per requirement including removing of the old/damaged sleeper from its position and including shifting of sleepers upto any lead. (a) BG Track (PSC to PSC sleepers).	353.00	3300.00	Each	1164900.00	

T.I. No.	Description	Total Qty	Rate	Unit	Amount
7	Carrying out Through USFD testing of running rails & welds (excluding flange testing) including the full head width portion of SEJ, lead portion of points & crossings of all types of rails using 0° (4 MHz) and 70° (2 MHz) central forward & backward, 70° (2 MHz) gauge face corner forward & backward and 70° (2 MHz) field forward & backward probes by NBC (Need Based Concept) method under traffic conditions as per provisions of IR's "Manual & Specifications for Ultrasonic Testing of Rails and Welds" & related instructions, duly marking defects, submission of daily reports and storing back-up data, as specified & directed. The rates are inclusive of contractor's men, materials & machines complete unless otherwise specified and as directed :	33.40	5351.75	Track Kilometer	178748.45
8a	Supplying and Fixing of fish plate and fish bolt (of 4 fish bolts) as per RDSO T-2434 on a joint created in rail of 60Kg of all UTS, duly lubricating fish plate/bolts with contractor grease graphite.	20.00	2600.00	set	52000.00
8b	Supplying and Fixing of fish plate 60Kg (1000mm long) and fish bolt (of 6 fish bolts) as per RDSO T-5916 on a joint created in rail of 60Kg of all UTS, duly lubricating fish plate/bolts with contractor grease graphite.	10.00	4400.00	set	44000.00
9	supplying and fixing Fish Bolts with Nuts of different sizes as per specifications etc. with all contractor's material, labour, tools & plants and machinery,drilling holes, all lead & lift etc. and as directed by the Engineer in-charge :				

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>	
	(a) Size 25mm x 130mm with nut & one plain washer to RDSO Drg. No. T-11501, conforming to latest IRS specification & alteration	200.00	76.00	Each	15200.00	
<b>10</b>	Scattered replacement of Grooved Rubber Pads on PSC / ST sleepers, as directed by Engineer in-charge	350.00	55.00	Each	19250.00	
<b>11</b>	Providing and fixing of New ERC clips while maintenance of open track or as and when required as per site condition as directed by Engineer-in-chare.	2973.00	92.50	Each	275002.50	
<b>12</b>	Supplying & fixing in position metal Liners as per RDSO drawing no. T-3740	2973.00	25.00	Each	74325.00	
<b>13</b>	Lubrication of gauge face of rail on sharp curves, cross overs, points & crossings and turn-in curves with contractor's grease graphite of approved quality	25628.00	4.72	RMT	120964.16	

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>	
<b>14</b>	Dismantling of broad gauge railway lines and point and crossing with all fittings like sleepers, fishplates, fish nut bolts, dogspikes, canted bearingplates etc. loading, unloading sleepers, fishplates, fish nut bolts, dogspikes, canted bearingplates etc. loading, unloading transportation and stacking and sorting out unserviceable materials within lead of 1.2kms. Beyond 1.00 Km., including all labours required tools plants etc. complete as directed by Engineer-in-charge.	100.00	150.00	RMT	15000.00	
<b>15</b>	Demolishing cement concrete manually/ by mechanical means including disposal of material within 2.0KM lead as per direction of Engineer - in - charge.	329.00	1098.00	cu m	361242.00	
<b>16</b>	Removal of old ballast from railway track including removal of foreign materials like rock phosphate, sulphur, soya, coal and other spilled cargo etc. including excavation, loading, unloading, transportation and disposal of same upto 2.00 Km. lead beyond 1.50Km. Dressing etc. complete as directed by Engineer-in-charge.	1379.00	210.00	cu m	289590.00	

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>	
<b>17</b>	Supply and stacking hard durable crush metal of size 65mm for tracks as per latest railway specification, stacking as near to Railway track as possible and Putting of railway's stone ballast from existing stacks available along alignment either on top of cutting or on formation or at toe of bank by head leads or by any other means and spreading to the required profile with contractor's labour, tools & plants, including all lead and lift as directed by Engineer in-charge. {Payment shall be made based on ballast stack measurement}	2071.00	890.00	cu m	1843190.00	
<b>18</b>	Laying of 60 kg industrial quality as per IRS specification in Broad Gauge with two rails in track including cutting of rails, drilling of holes in rails and check rail joining connecting and fixing in line and level, placing and linking on prepared sub grade (formation) for BG track with 60 kg rail and PSC sleepers (1540 sleeper / km) with initial packing and fixing all relevant track filling I.e. Fish plates fish nuts & bolts, pendroll clips, GFN/Metal liners, resilient rubber pads etc. to the correct sleepers spacing, gauge alignment with all required tools & plants, all materials labours loading unloading transportation etc. complete as directed by Engineer in Charge. (Excluding supply of rails and sleepers).	100.00	1210.00	Track Meter	121000.00	

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>	
<b>19</b>	Replacement of damaged rail on wooden or PSC sleeper as per requirements (single rail of track) which includes removing of damaged rail from its position by removing necessary fish nut-bolts, fish plates, dog spikes/ rail screw/ pendrolclip, check rail brackets/ check blocks etc. and depositing the same in railway store and replacing by other rail, fixing of all relevant fittings like fish plates, fish nut-bolt, dog spikes/ plates screws, rubber pad, GFN/metal liner, pendrol clip etc. including with all loading, unloading and transportation etc. complete as directed by Engineer-in-charge. (Excluding the cost of rails and fittings)	65.00	610.00	RMT	39650.00	
<b>20</b>	Lifting and packing for regrading the existing BG track to required height / level in stages not exceeding 75mm or part thereof at a time, providing permissible ramp for the track, insertion of moorum / sand / stone ballast uniformly under the existing track and placing the same to safe approved gradient, gauge, cushion including levelling and one round of through packing to allow train movement at restricted speed of 30 kmph for a specified length with all leads & lifts and fixing, marking, painting rail level posts, tiebars at every 30m interval. {Note : Lifting of track shall be done in stages as per procedure laid down in Para 233 of IRPWM to get the proposed final level as per approved working profile, as directed by engineer in-charge} In PSC sleeper track	2413.00	160.29	Track meter	386779.77	
<b>20a</b>	Extra for additional lift over 75mm for every 50mm lift or part thereof upto 275mm for item no. 20 for each TM.	1207.00	24.08	Track meter	29064.56	

T.I. No.	Description	Total Qty	Rate	Unit	Amount	
21	Collecting and removing of the fly dust, <b>spilled cargo</b> deposited at various Level Crossings in cargo jetty area by collecting the same at required interval and lifting & filling in tractor trolley for disposing off at a lead of 2.00km and dressing etc. complete as directed by engineer-in-charge.	2371.00	180.00	m3	426780.00	
22	cleaning of the concrete paved railway tracks of broad gauge lines (Two rails in track) mechanically operated tractor mounted brooming machine and to remove all dust, dirt, spilled cargo and other foreign materials which are removed from the track collecting the same at required interval for disposal. Cost is inclusive of all labour, tools & plant, cost of tractor mounted brooming machine, necessary fuel and lubricant for tractor, and other accessories etc. complete required for the work as directed by engineer-in-charge.	1253200.00	1.30	Track metre	1629160.00	
23	Cleaning of railway track (gap between main and check rail or concrete groove) for broad gauge line (Two rails in track) and making groove up to depth of 50 to 75mm deep and removing of dirt, dust, spilled cargo and other foreign material by brush 30 to 50cms. Away from the track line with all labour, tools and plant and each railway track shall be cleaned round the clock as directed by engineer-in-charge.	2388000.00	0.85	Track metre	2029800.00	



T.I. No.	Description	Total Qty	Rate	Unit	Amount
24	Maintenance of the point & crossing by examination of rails, sleepers, fastening of the crossing like lever box, stretcher bars, pulling rod, chair plates, tie plates etc and made fit for working smoothly including cleaning of dirt, dust and spillage cargo from tie plate, chair plate and surrounding rails, oiling/lubricating all the movable parts of the crossing including any repairing works if required including cost of oil/ grease as directed by engineer in charge. ( labour work only)	2736.00	740.00	each	2024640.00
25	Maintenance of unpaved/open Broad Gauge track (Two rail in track) by checking of gauge, examination of rails, sleepers & fastenings squaring of sleepers, slewing of track to correct alignment, gauging of track, , packing of sleepers , repacking of joints sleepers, ballast section tightening, etc complete as directed by Engineer in Charge.	48286.00	40.00	Track metre	1931440.00
26 a	Monthly maintenance of manual LCs inside Cargo Jetty area which includes day to day cleaning of counterweight pit, cleaning surrounding of LCs, repairing boom barrier in case of damage if any, oiling to movable parts for smooth functioning & replacing of downpulling rop if required. The work includes all type of maintenance activity required to be done due to wear & tear or accidental movement if any. Contractor has to ensure free and smooth movement of boom barrier throughout the contract period by means of regular maintenance as well as repair/replace any damaged part of the boom barriers complete as directed.	696.00	780.00	ach LC per Mon	542880.00

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>	
<b>26 b</b>	Annual maintenance of various assets at Mechanically operated level crossing, e.g. lifting barrier assembly, boom locking arrangement with ground lever frame, winch etc., as directed by engineer in-charge. Scope of work includes – (1) Adjustment of adjusters; (2) Cleaning & oiling greasing of dust/rust of pulleys and levers; (3) Claening of check rail clearance and rope channels; (4) Repairing of pot holes of road surface (5)Repairing to wire rope etc.	6.00	29732.99	each LC	178397.94	
<b>27</b>	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 25 to 40 mm sizegraded hand/machine broken crushed trap stone metal ascoarse aggregate.					
<b>a</b>	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	37.50	3212.33	m3	120462.38	
<b>b</b>	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).	272.25	4839.46	m3	1317542.99	
<b>28</b>	Centering and shuttering including strutting, propping etc. and removal of form work					
<b>a</b>	for : Foundations, footings, bases for columns	107.05	206.33	sq m	22087.63	

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>	
<b>b</b>	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets,kerbs and steps etc.	640.00	392.83	sq m	251411.20	
<b>29</b>	Painting of P.Way Reference Post, Structures etc. with enamel paint of approved make with different colours & letters, as directed by Engineer incharge:	140.00	77.87	each	10901.80	
<b>a</b>	Kilometre & Gradient post					
<b>b</b>	LWR / SEJ Board	10.00	132.59	each	1325.90	
<b>c</b>	Curve Board	20.00	132.59	each	2651.80	
<b>30</b>	Manufacturing, supplying and fixing Curve Indicator / Point Indicator / SEJ Boards to be provided at various locations on formation, made out of MS sheet 2mm thick of size 450mm x 300mm duly fixed with MS frame of 25mm x 25mm x 3mm angle welded to 50mm x 50mm x 3mm MS angle, 1000mm long post split and bent 100mm at bottom end with all lead & lift as per specification and including painting of details with enamel paint, as directed by Engineer in-charge.	10.00	870.00	Each	8700.00	
<b>31</b>	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	1500.00	78.58	Kg	117870.00	

<b>T.I. No.</b>	<b>Description</b>	<b>Total Qty</b>	<b>Rate</b>	<b>Unit</b>	<b>Amount</b>	
<b>32</b>	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. Complete	400.00	7.81	sqm	3124.00	
<b>33</b>	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	200.00	77.07	sqm	15414.00	
<b>34</b>	Finishing walls with water proofing cement paint of required shade : (Two or more coats applied @ 3.84 kg/10 sqm)	200.00	75.19	sqm	15038.00	
<b>35</b>	Lubrication of fish plated rail joints under traffic as per Para-241 of Indian Railways Permanent Way Manual with approved lubricant and tools & plants supplied by contractor for all types of rail sections	3248.00	116.96	Each Joint	379886.08	
<b>36</b>	Dismantling existing rail hurdle fencing including removal of base concrete and stacking released materials in a neat and countable manner clear of infringements from the track, removing debris clear of site alongwith disposing debris, as directed by engineer in-charge within free lead of 250 metre & lift upto 5 metre complete with all labour, tools & plants by contractor	200.00	87.00	RMT	17400.00	

T.I. No.	Description	Total Qty	Rate	Unit	Amount	
37	<p>Providing rail hurdle fencing on all four sides of level crossing approaches / platforms for a length of 15 m (approx.) on each side with vertical rails fixed duly embedded in Cement Concrete foundation at 3 metre interval and two horizontal rails {overall height of fencing being at 1.0 metre (approx.) above ground level}. Item includes cutting rails and drilling holes as required, assembling necessary accessories to required length, painting fencing with two coats over one coat of primer with paint of approved quality &amp; all leads &amp; lifts etc. complete and as directed.colour with</p> <p>{Note : (1) All labour, materials and tools &amp; plants to be arranged by contractor; (2) Rails of required section and overall length will be supplied by Railway within free lead of 250 metre. (3) Excavation and concrete work for foundation will be paid separately}</p>	200.00	158.44	Each Joint	31688.00	
38	<p>Removing weeds &amp; bushes in ballast section and cess upto 3.5m from centre line of track in section &amp; station yard, as specified by Engineer in-charge including disposal of branches, bushes outside cess/yard</p>	24143.00	12.92	Track Rmt	311927.56	

T.I. No.	Description	Total Qty	Rate	Unit	Amount	
39	Repairing of embankment by engaging Rail wheel mounted tractor upto any lead with contractor's Quorry Spall including , excavation / loading into contractor's vehicle in cess / formation / level crossing, rain cuts etc. in running line to make surface to the desired level and slope to entire satisfaction of Engineer in-charge. Rate shall include sectioning to profile, all lift, descends, ascends, crossing of track / road / nallah etc. including breaking of clods etc. and compaction by rollers / rammers / tamping rods etc.	360.00	364.59	m3	131252.40	
40	Patrol man for patrolling during cold / hot weather on track for protecting track with all contractor's labour, tools, plants etc. complete as directed by Engineer In charge	730.00	646.22	per Person	471740.60	
41	Fabrication, supply and fixing of hand operated lever boxes with pull rod of 33mm dia to Drg.No. MA3040 including lead, lift, loading, unloading, tools and Engineer-in-charge at site.					
	NOTE: 1. Rate including Fabrication, Supply and Fixing of hand operated boxes.					
	2. Spring point lever (Self reversing type) as per drawing no. TMC-12 (Sheet 1,2,3).	20.00	16507.47	Set	330149.40	

T.I. No.	Description	Total Qty	Rate	Unit	Amount	
42	Anti-corrosive painting of rail on running track on web, foot etc. including liner contact area (excluding bottom of foot) and fishing plane as per requirement with two coats of bituminous emulsion without mica (IP No. 56192 and RDSO Specification No. IRS-P-30-1996) of reputed make including surface preparation, i.e. cleaning with wire brush / sand paper as a complete job as per Para 250 of Indian Railways Permanent Way Manual	48264.00	54.86	RMT	2647763.04	
43	Painting one coat (excluding priming coat) on previously painted steel and other metal surfaces with ENAMEL PAINT. Brushing interior to give an even shade including cleaning the surfaces of all dirt, dust, and other foreign mater on surfaces over 10 cm in width / girth.	500.00	50.98	m2	25490.00	
<b>Total Rs.</b>					<b>22333265.97</b>	

I/we am/are willing to carry out this work at \_\_\_\_\_% in word ( \_\_\_\_\_%)  
above/ below (percentage should be written in figure & words). The tendered rates mentioned above amount of my/our  
tender are put as under.

Estimated amount put to tender Rs. _____	Estimated amount put to tender Rs. _____
ADD _____% above (-) Rs. _____	Deduct _____% below (-) Rs. _____
Net Amount Rs. _____	Net Amount Rs. _____
In words. (Rupees _____)	In words. (Rupees _____)

Contractor

Superintending Engineer ( Harbour  
Deendayal Port Authority