

ESTIMATE

Name of work: TWO YEARS MAINTENANCE CONTRACT FOR RAILWAY TRACK LEADING TO TUNA FROM 0 TO 11 KM DPA LINE (TAKE OFF POINT AT 2.573KM AT GIM YARD TO 13.54KM) INCLUDING LC-1, LC-2 (From 2026-28)

T.I.No.	Description	Total Qty	Rate	Unit	Amount
1	Maintenance of unpaved/open Broad Gauge track (Two rail in track) by checking of gauge, examination of rails, sleepers & fastenings squering of sleepers, slewing of track to correct alignment, gauging of track, , packing of sleepers , repacking of joints sleepers, ballast section tightening, etc compelte as directed by Engineer in Charge.	21934.00	39.00	Track metre	855426.00
2	Working of the Contractor's Push Trolley by arranging required semi-skilled manpower as per Railway's rules and stipulations for conducting inspectionsby Railway/DPT officials and as directed by Engineer in-charge : For Half day(<u>upto 4 hours</u>).	24.00	1510.53	Each	36252.72
3	Supply and stacking hard durable crush metal of size 65mm for tracks as per latest railway specification and stacking as near as possible to the track including royalty, quarrying, breaking, loading, unloading, transport screening etc. as directed. Stack measurement.	1000.00	1250.00	M3	1250000.00
4	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 forfixing running rail OR Running rail and check rail as per requirement including removing of the old/damaged sleeper from its posion and including shifting of sleepers upto any lead. (a) BG Track (PSC to PSC sleepers). Sleeper shall be provided by DPA near LC-1 or LC-2 or along the track.	274.00	610.00	Nos	167140.00

T.I.No.	Description	Total Qty	Rate	Unit	Amount
5	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 & 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.	36520	23.21	per sleeper	847629.20
6	Scattered replacement of Grooved Rubber Pads on PSC / ST sleepers, as directed by Engineer in-charge	730.00	18.12	Each	13227.60
7	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	13185	4.72	Running Meter	62233.20
8	Patrolling during cold / hot weather on track for protecting track with all contractor's labour, tools, plants etc. Complete For a maximum duration of 8 hrs	1460	646.22	per Person	943481.20
9	Painting of rail on running track on rail, web, foot including liner contact area (excluding bottom of foot) and fishing plane as per requirement with one coat of red oxide primer to IS : 2074 of reputed make including surface preparation, i.e. cleaning with wire brush / sand paper as a complete job (removal of rust and scaling)	21934	54.86	Running Meter	1203299.24
10	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	21934	125.17	Running Meter	2745478.78
11	Painting of P.Way Reference Post, Structures etc. with enamel paint of approved make with different colours & letters, as directed by Engineer in-charge : (including 2 coat of SE paint background and 2 coat of letter writting)				

T.I.No.	Description	Total Qty	Rate	Unit	Amount
a	Kilometre & Gradient post	36	77.87	Each	2803.32
b	Hectometer Post	109	87.23	Each	9508.07
c	LWR / SEJ Board	8	132.59	Each	1060.72
d	Level Crossing Boards including Road Sign Boards	8	149.98	Each	1199.84
e	Level Crossing Post	4	151.27	Each	605.08
f	Curve Post	16	86.92	Each	1390.72
g	Curve Board	16	132.59	Each	2121.44
12	Painting of Bridge Reference / Boards, Structures etc. along track with enamel paint of approved make with different colours & letters, as directed by Engineer in-charge ((including 2 coat of SE paint background and 2 coat of letter writting)				
a	Bridge Board	16	132.59	Each	2121.44
b	HFL, FSL & DL on Bridge Pier / Abutment	16	604.30	Each	9668.80
13	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 (report)				
	(a) With Contractor's USFD machine	11.00	5351.75	rack Kilomete	58869.25
14	Annual maintenance of various assets at 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 (Contractor has to maintain the assets throughout the year and also repair the same if any accidental damage occurs)	4.00	29732.99	each	118931.96

T.I.No.	Description	Total Qty	Rate	Unit	Amount
15	Dismantling damaged 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.	300	87.00	RMT	26100.00
16	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 & colour with all leads & lifts etc. complete and as directed. {Note : (1) All labour, materials and tools & 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}	300	158.44	RMT	47532.00
17	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, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	22	200.8	Cum	4417.60
18	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering : "1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	13	5155.61	Cum	67022.93
19	Fabrication, supplying and fixing Stop Boards of 600mm dia. to lifting barriers approved drawing, made of 3mm thick plate, using MS clamps, providing 6 nos. of 50mm dia. red reflector on stop board, painting iron works with two coats of synthetic enamel paint over one coat of red lead primer of approved quality & colour and writing STOP mark over the board	6	1826.62	Each	10959.72

T.I.No.	Description	Total Qty	Rate	Unit	Amount
20	Repairs to Rough stone pitching with trap stones (22.5 cm thick) set in cement mortar 1:6 for toe walls & pevetment as per profile including curing etc. complete as directed.	750	605.00	m2	453750.00
21	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge.With cement mortar 1:4 (1 cement : 4 fine sand)	50	323.61	m2	16180.50
22	Finishing walls with water proofing cement paint of required shade : Old work (two coats) complete including preparing the surface by cleaning, scrubbing and curing etc. complete.	200.00	83.20	m2	16640.00
23	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	100.00	98.04	m2	9804.00
24	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	50.00	101.43	m2	5071.50
25	Providing competative manpower for the smooth operation of LC gates round the clock as per Railway norms				
a	Trained competative Gateman	4380	632	Each	2768160.00
b	Unskilled	2190	541	Each	1184790.00

T.I.No.	Description	Total Qty	Rate	Unit	Amount
26	Manufacturing, supply and replacement of Railway's fragmented lifting barrier up to 10 m length at interlocked LC (Electrically operated) as per RDSO specifications and fixing it on boom supports, painting with two coats of synthetic enamel paints over one coat of red lead primer of approved quality & colour and setting lifting barrier for smooth operation complete and as directed.	4	21800	Each	87200.00
27	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	1100.00	160.29	Track meter	176319.00
27A	Extra for additional lift over 75mm for every 50mm lift or part thereof upto 275mm for item no. 20 for each TM.	550.00	24.08	Each	13244.00
28	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-charge.	2922.00	88.00	Each	257136.00
29	Supplying & fixing in position metal Liners as per RDSO drawing no. T-3740	2922.00	24.00	Each	70128.00
30	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.	130.00	135.00	RMT	17550.00

T.I.No.	Description	Total Qty	Rate	Unit	Amount
31	Laying of 60 kg industrial qualify 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 (1660 sleeper / km) with initial packing and fixing all relevent 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).	130.00	1170.00	Track Meter	152100.00
32	Reclamation of area/ approach road by filling up the areas with quarry spall not exceeding 125mm including cost of material, excavation, royalty, loading, unloading, transportation and spreading in layers not more than 30 cm or as directed, dressing the side slopes & levelling the materials with necessary tools, plants, machinery,equipments etc., and compaction of each layer with loaded trucks movement and top layers with power vibratory road roller (Earth Compactor) with watering including settlement of ground etc. complete as directed by the engineer in charge.	600.00	650.00	M3	390000.00
33	Removing weeds & bushes in ballast section and cess upto 3.5m from centre line of track in section & station yard, as specified by Engineer in-charge including disposal of branches, bushes outside cess/yard.	22000.00	12.92	Track Rmt	284240.00
			TOTAL		14390793.83

T.I.No.	Description	Total Qty	Rate	Unit	Amount
	I/we am/are willing to carry out this work at _____% in word (%) 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. _____ Deduct _____% below (-) Rs. _____ Net Amount Rs. _____ In words. (Rupees _____	I/we am/are willing to carry out this work at _____% in word (%) above (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. _____ Add _____% Above (+) Rs. _____ Net Amount Rs. _____ In _____ words. (Rupees _____			
	<u>Contractor</u>		<u>XEN (C-1)</u>		