

MORMUGAO PORT TRUST
Engineering (Civil) Department

Name of Work: Tender No.CE/00/2018 Extension of Railway Line No.8 at Mormugao Port, Goa.

Item No.	Description of Item	Unit	Qty	Rate in Figure & Words	Amount Rs.	Remarks
	PART 1- Earth work					
1	Earthwork in filling with available excavated earth of good quality including loading, transportation, unloading as specified by the Chief Engineer or his representative in layers, watering, rolling to obtain the density specified with mechanical rollers as per IS 10379-1982 and RDSO guidelines for the Earthwork in Railway Projects GC: G-1, July 2003 with up-to-date amendments including dressing to the railway specifications. The rate shall be inclusive of lead upto 5.0Km and lift, all labour, tools and plant, materials, etc. complete.	M3	400.00		0.00	
2	Earth work excavation for formation of embankment for laying permanent way, trenches for storm water, services, retaining wall foundations, etc., in hard murrum, murrum with laterite boulders interspersed, etc. including removal of obstructions such as small trees, vegetation, etc. and also removal of excavated materials upto a lead of 100m and a lift of 1.5m including refilling the excavated trenches with suitable excavated materials as directed by the Chief Engineer or his representative. Excavation shall be using earth moving machinery and necessary logistic system. All tools, plant, machinery, labour and materials etc. complete.	M3	900.00		0.00	

3	Excavation in existing Concrete road /surface/ pedestal, boulders interspersed with concrete material, including taking away excavated material within lead of 5.0Km and all lift, etc The profile and dumping the cut spoils as specified by Chief Engineer or his representative or as directed. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	M3	100.00			0.00
4	Murrum Blanketing on the Railway formation with blanket material viz murrum, quarry/ crusher grit etc with all Government cess, loading, transportation, unloading as specified by Chief Engineer or his representative in layers, watering, rolling with heavy mechanical rollers (8 to 10 Ton capacity) to 98% MPD at OMC layer by layer and dressing to the Railway Specifications. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	M3	900.00			0.00
5	Transporting and dumping surplus excavated material/ dismantled material in the low lying areas within a lead of 5 Kms., including loading, unloading, transporting, rough levelling etc. at places as directed by the Chief Engineer or his representative. All tools, plants, labour and material etc. complete.	M3	1000.00			0.00
6	Pruning of trees as directed by Chief Engineer or his representative including deploying mechanical equipments etc. complete. All tools, plants, labour and material etc. complete.	Lump Sum	1.00			0.00
Total of PART - 1						0.00

PART 2 - Dismantling of Railway Track from Railway Line No.1 and 2 beyond level crossing near eastern boundary of SWPL.

1	Dismantling of Plain Track with any kind of sleepers with fittings and fastening. The rate inclusive of cutting/dismantling of rails, fish plates, bolts and nuts if necessary. Including accounting & stacking the released materials viz Rails, Sleepers, Fish plates and fittings etc by the side of track and further to the stores yard after proper measurements as per direction of Chief Engineer or his representative. The rate shall be inclusive of cost of all labour tools and plants loading, unloading, transportation, stacking etc. complete. NOTE: The unit of Meter consists both side rails	M	700.00		0.00
2	Dismantling of Turnouts under traffic block condition with any kind of sleepers with fittings and fastening. The rate inclusive of cutting/dismantling of rails, fish plates, bolts and nuts if necessary, for dismantling of turnouts. Including accounting & stacking the released materials viz Rails, Sleepers, Fishplates and fittings etc. by the side of track and further to the stores yard after proper measurements as per direction of Chief Engineer or his representative. The rate shall be inclusive of cost of all labour tools and plants loading, unloading, transportation, stacking etc. complete.	Set	2.00		0.00
3	Removal of Ballast, screening and stacking the ballast, including loading, unloading, transporting, rough levelling etc. at places as directed by the Chief Engineer or his representative. All tools, plants, labour and material etc. complete.	M3	500.00		0.00
Total of PART - 2					0.00
PART 3- SUPPLY OF Track related Materials & Laying of P-way					

1	Fabrication of SKV welded Joints for short welded rails (SWR) as per respective latest RDSO drawings and IR specifications including all taxes, inspection charges, testing of weld joints with non destructive testing if required or as directed by Chief Engineer or his representative. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	No.	5.00		0.00	
2	Supplying machine crushed stone ballast of 50mm size clean angular, hard and durable track ballast at side confirming to RDSO specifications of track ballast - June 2004 with latest amendments including transportation all leads, lifts, crossing of tracks and other obstructions, etc.. The rate includes all lead, lift, royalty, sales tax, Government cess and other taxes and duties, and all incidental charges complete as applicable. Stacking stone ballast, 50mm size on the formation or toe of the bank or at suitable place as directed by Chief Engineer or his representative at site. Including transportation all leads, lifts, crossing of tracks and other obstructions, etc. The rate includes Tools, plants and screens of approved mesh & dimensions required for inspection and passing at	M3	100.00		0.00	
	the time of measurement are to be arranged by the contractor. The rate also includes leveling of ground, removing vegetation, small trees and other unwanted materials, if necessary, where the ballasts are to be stacked. Contractor has to arrange for the same. Note: 75% payment shall be released on the net quantity accepted and 25% shall be released after stacking.	Cum.	100.00			

3	<p>Handling, lifting and leading of ballast 50mm size from stacks with all lead which have been duly measured and released for spreading and spreading stone ballast, 50mm size at site for running track and points, crossings and on formation to ensure uniform and compact ballast cushion under the sleepers. The rate shall includes transportation, loading and unloading from stacks to place of dumping on Railway line, spreading of ballast as per the specified line level and maintaining approved profile as provided in the technical specification. Spreading of ballast on formation will be done after supply is completed for a particular stretch as decided by Chief Engineer or his representative</p>	M3	1250.00		0.00	
	<p>and ballast stacks have been released for spreading. Quantity of ballast used and payment thereof shall be made for the net quantity of ballast as paid vide Item No. 2 above.</p>					

4	<p>Laying and linking Permanent way on straight /curve with 52/60 Kg rails on 60 kg PSC sleepers with elastic fastenings fish plated tracks to correct parameters as per specifications complete. Including transportation, loading and unloading of all required materials from place of storage/issue of material to actual position at work, maintaining proper gauge, alignment, level (both cross & longitudinal) expansion gap at rail joints, super elevation where necessary and with one initial through packing. The rate should be inclusive of cost of transportation to site, delinking of rails as required, cutting of rails as required on straight and curve track for squaring of joints, rubber pads, GFN liners, drilling holes in web of rail, square to rail surface by using proper template for fish plated joints, champhering of</p>	Km	0.70		0.00	
	<p>drilled holes, greasing and oiling of fish plate & fish bolts and nuts and at fishing zone of the rail ends including supply of grease oil, etc and packing and boxing the ballast profile complete. The excess rails, sleepers and all fittings will be returned to employer's stores free of cost. The work has to be carried out as laid down in IRPWM and as per direction of the Chief Engineer or his representative at site. The unit of Kilometer consists both side rails, sleepers and all other fittings required thereof.</p>					
5	<p>1st packing of Track while maintaining the line and level of track or as directed by Chief Engineer or his representative, complete. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.</p>	Km	0.70		0.00	

6	Final packing of Track while maintaining the line and level of track or as directed by Chief Engineer or his representative, complete. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	Km	0.70		0.00	
7	Final packing, boxing and shouldering of Track while maintaining the line and level of track or as directed by Chief Engineer or his representative, complete. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	Km	0.70		0.00	
8	Assembling and Insertion of 1 in 8 1/2 Turnouts 60 kg with curved switch (5Nos.RH & 1No.LH) and CMS crossing on Fan shaped PSC sleepers Layout as per RSDO Drg. No. T- 4865 complete. Including standard fittings ensuring correct spacing of sleepers fixing & tightening of Fish bolts & nuts and maintaining proper gauge, expansion gap at rail joints and with one initial through packing. The rate should be inclusive of sorting of sets from available stacks, transportation, loading and unloading of all required materials from place of storage/issue of material to actual position at work delinking of rails as required, bending stock rails, cutting rails to required standard size and drilling holes on web of rails square of rail surface, by using proper template (for fixing fishplates, distance block, stretcher bars),	Set	5.00		0.00	

	greasing and oiling of fish plates & fish bolts and nuts and at fishing zone of the rail ends including supply of grease, oil etc. complete in all respects. The rate should also be inclusive of carrying rails, sleepers, switches, crossings, fittings & fastenings with all lead, lift, ascent, descent crossing Road/Railway line if necessary from stores to site of work.					
9	Supplying of 1 in 8 1/2 Turnouts 60 kg with curved switch (2No.LH) and CMS crossing on Fan shaped PSC sleepers Layout as per RSDO Drg. No. T- 4865 complete.....	Set	2.00			0.00
10	1st packing of Turnouts and Trap switches while maintaining the line and level of track or as directed by Chief Engineer or his representative, complete. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	Set	5.00			0.00
11	2nd packing of Turnouts and Trap switches while maintaining the line and level of track or as directed by Chief Engineer or his representative, complete. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	Set	5.00			0.00
12	Final packing, boxing and shouldering of Turnouts & Trap switches while maintaining the line and level of track or as directed by Chief Engineer or his representative, complete. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	Set	5.00			0.00

13	<p>Fixing check rails with complete fittings on PSC sleepers at level crossings, curves, etc., as per the specification and drawings and as directed by the Chief Engineer or his representative. Rate shall be inclusive of transportation, loading and unloading of all required materials from place of storage/issue of material to actual position at work, making holes to rails using power operated tools, fixing of check blocks/check rail seat assembly or as directed by Chief Engineer or his representative.</p> <p>NOTE: The unit of Meter consists both side rails, sleepers and all other fittings required thereof.</p>	M	100.00		0.00	
14	<p>Shifting/slewing of Permanent way on straight /curve with 52/60 Kg rails on 60 kg PSC sleepers with elastic fastenings fish plated tracks to correct parameters as per alignment to be maintained at both the sides with proper line and level etc. complete. Including maintaining proper gauge, alignment, level (both cross & longitudinal) expansion gap at rail joints, super elevation where necessary and with one initial through packing. The rate should be inclusive of deployment of earth moving machinery including cost of transportation to site, delinking of rails as required, cutting of rails as required on straight and curve track for squaring of joints, rubber pads, GFN liners, drilling holes in web of rail, square to rail surface by using proper template for fish plated joints, champhering if</p>	M	100.00		0.00	

	<p>drilled holes, greasing and oiling of fish plate & fish bolts and nuts and at fishing zone of the rail ends including supply of grease oil, etc and packing and boxing the ballast profile complete.</p> <p>The unit of Meter consists both side rails, sleepers and all other fittings required thereof.</p>					
15	<p>Supplying and Erection of Cast-in-situ Fouling Points, Kilometer Posts, Gradient Posts, Curve Posts, KM/HM, SR Boards, etc. as per latest RDSO approved Drawing and specifications including all taxes, inspection charges and transporting at the designated stock yard and subsequently to the place of work as directed by Chief Engineer or his representative, loading, unloading & stacking complete. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.</p>	No.	10.00			0.00
16	<p>Providing & laying NP3 class, 350mm dia concrete pipes 2m in length below track as cross drainage work Jointing with collars, cement mortar(1:3), joining and testing the pipe joints, re-filling with sand upto 30 cm above the crest of the pipe in layers and filling the remaining depth with suitable excavated materials in layers, consolidating, connecting to the storm water drain, etc. complete as directed but excluding excavation. All tools, plant, labour and materials etc. complete.</p>	M	10.00			0.00

17	Providing & laying 100mm dia GI Class B below track to cross HT, LT electrical cables, telephone or data or OFC cable including Jointing with threaded sockets, joining and testing the pipe joints, re-filling with sand upto 30 cm above the crest of the pipe in layers and filling the remaining depth with suitable excavated materials in layers, consolidating, as directed but excluding excavation. All tools, plant, labour and materials etc. complete.	M	50.00		0.00	
18	Providing & laying 150mm dia GI Class B below track to cross HT, LT electrical cables, telephone or data or OFC cable including Jointing with threaded sockets, joining and testing the pipe joints, re-filling with sand upto 30 cm above the crest of the pipe in layers and filling the remaining depth with suitable excavated materials in layers, consolidating, as directed but excluding excavation. All tools, plant, labour and materials etc. complete.	M	50.00		0.00	
19	Providing and laying Heavy duty interlocking concrete paving blocks of approved pattern with compressive strength 250Kg/Cm ² (28days) of approved manufacturer with 100 mm thick over a layer of sand cushion of 50 mm, preparing the surface etc. including spreading sand, laying the blocks to required slope, levelling, compacting, filling the joints with scrapper dry sand, cleaning the surface, cutting the blocks using power operated tools, vibrating the surface with mechanical vibrator, etc. complete. All tools, plant, labour and materials etc. complete.	M2	400.00		0.00	

20	Plain Cement Concrete (1:4:8) for retaining wall foundations, trenches for storm water, services, etc. using 40mm graded black trap stone metal out of quarried boulders as coarse aggregate, including mixing, depositing, ramming, side shuttering if required, levelling, curing, all lifts, leads, etc. complete. All tools, plant, labour and materials, etc. complete.	M3	100.00		0.00
21	Plain Cement Concrete (1:2:4) for sides of storm water drains, service trench, etc. using 20mm graded black trap stone metal out of quarried boulders as coarse aggregate, including mixing, depositing, ramming, levelling, curing, all lifts, leads, etc. complete. All tools, plant, labour and materials, etc. complete.	M3	100.00		0.00
22	Supply and Erection of prefabricated Dead end as per latest RDSO approved Drawing and IR specifications including all taxes, inspection charges and transporting at the designated stock yard and subsequently to the place of work as directed by Chief Engineer or his representative, loading, unloading & stacking complete. Rate shall be inclusive of dismantling of existing dead end and fixing at proposed/different location as per drawing. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	No.	3.00		0.00
Total of PART - 3					0.00
Total of Part 1, 2 and 3					0.00

Total amount in Figures excluding GST

Total amount in words

It is certified that I/ we have written the unit rates in figures and words

Name and Address of the Tenderer

Signature of the Tenderer with date

Note : Tenderers are advised to go through the Schedule of Quantities and Rates and sequence of work before submission of the tender. They are also advised to inspect the site, ascertain for themselves the nature and the extent of work involved and also obtain all clarifications they may require before filling in the tender.