

MORMUGAO PORT TRUST ENGINEERING (CIVIL) DEPARTMENT FACE SHEET TO ACCOMPANY THE TENDER DOCUMENTS

A. 1.	Name and full address of the Contractor to whom the Tender Documents are issued		IN DOCUMENTO
2.	Whether registered with Engineering (Civ Department, if so, class of registration.	il) :	
3.	If not registered, reference to the letter of t Engineer authorising issue of the tender I		
4.	Date of issue of Tender Documents.	:	
B. 1	Name of work: PROVIDING FULL RA PAVING 30M WIDE A	KE HANDL	
2	Cost of each set of Tender Docume	ents :	Rs. 10,000/-
3	. Date of Sale of Tender Documents	:	From: 04/08/2016 To 20/09/2016 upto 15.00hrs.
4	. Date of receipt of tender and time	: 2	21/09/2016 Upto 15.00hrs.
5 6		:	Rs.12,40,000/- On 21/09/2016 at 15.30 hours.
7	a) Whether EM.D. receivedb) if so, in which shape	: :	Yes/No. Demand Draft
	Form of contractWhether tender received in duplicate	:	Item rate Yes/No
10	. Whether rates have been quoted in the tenders both in words and figures	: s.	Yes/No.
11	. Total No. of Tenders received for the	work :	
Д		EXECUTIV	E ENGINEER (P&C)



TENDER No. CE/56/2016

Name of Work: PROVIDING FULL RAKE HANDLING RAILWAY LINE WITH PAVING 30M WIDE AT MORMUGAO PORT, GOA.

REVISED SECOND COVER

(TO BE SUBMITTED IN SEPARATE SEALED ENVELOPE / COVER)



MORMUGAO PORT TRUST SERVING THE NATION SINCE 1885

ENGINEERING (CIVIL) DEPARTMENT

www.mptgoa.com

NOTICE INVITING TENDER

TENDER NOTICE NO.CE/N-56/2016

TENDER No. CE/56/2016

Name of Work: PROVIDING FULL RAKE HANDLING RAILWAY LINE WITH PAVING 30M WIDE AT MORMUGAO PORT, GOA.

Tenders in the prescribed form in sealed covers superscribing the Tender No. and due date and time are invited by the Chief Engineer for the above work as per the details given in the table below:

Cost of tender	Estimated	Tender	Submission	Opening
document	Cost	Sale	on	on
		From/To		
EMD	Completion Time	Pre-Bid		
		Meeting		
Rs.10,000/-	Rs. 12,40,00,000/-	04.08.2016	21.09.2016	21.09.2016
(Rupees Ten thousand	(Rupees Twelve	То	Upto	At
only)	crores forty lakhs	20.09.2016	15.00 hrs.	15.30 hrs.
	only)	Upto		Technical
	3,	15.00 hrs.		Bid (Cover
Rs. 12,40,000/-	Nine (9) Months	16.08.2016		No.I)
(Rupees Twelve lakhs		at		
forty thousand only)		15.30 hrs.		

Detailed tender notice along with complete tender documents can be downloaded from our website **www.mptgoa.com** on or before the last date of sale of tender document. Tenders are also available for sale at the Civil Engineering Department of Mormugao Port Trust.

For further details and general enquiries, prospective bidders may contact the Executive Engineer (Planning), telephone no. 0832 2594611, mobile 09764006075 during working hours before the last date and time of sale of tender document.

[sd/-] Chief Engineer



TENDER No. CE/56/2016

Name of Work: PROVIDING FULL RAKE HANDLING RAILWAY LINE WITH PAVING 30M WIDE AT MORMUGAO PORT, GOA.

PART IV

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TENDER No. CE/56/2016

Name of Work: PROVIDING FULL RAKE HANDLING RAILWAY LINE WITH PAVING 30M WIDE AT MORMUGAO PORT, GOA.

REVISED PRICE BID

PART IV (ii) - PREAMBLE TO SCHEDULE OF QUANTITES AND RATES

1. General

- 1.1 The Schedule of Quantities and Rates must be read with, Conditions of Contract and the Specifications and all relevant standards. The Contractor shall be deemed to have examined, Conditions of Contract and the Specifications and have acquainted himself with all the details of the work to be done and the way the works are to be carried out.
- 1.2 Notwithstanding that the work has been sectionalised every part of it shall be deemed to be supplementary to and complementary of every other part and shall be read with it or into it so far as it may be practicable to do so.
- **1.3** The detailed descriptions of work and materials given in the specification are not necessarily repeated in the bill of quantities.
- 1.4 The quantities given in the bill of quantities are approximate only and are given to provide a common basis for tendering. Payment will be made according to the actual quantities of work ordered and carried out, as measured by the Engineer and valued at the rates and prices quoted in the bill of quantities.

2. Rates and Prices to be Inclusive

2.1 The rates entered in the Schedule of Quantities by the tenderer shall include the provision of all supporting special equipment, use of power operated cutting tools for plumbing/electrical works, labour of required skill, supervision, all leads and lifts, materials, overheads and profits, watch and ward, insurance charges, during execution and every incidental and contingent costs and charges, whatsoever, including sales tax on works contract, VAT, Sales tax, entry tax, etc. if any, for compliance with conditions of contract and specification. Service tax as applicable shall be paid extra.

- 2.2 The Specification is intended to cover the supply of material and the execution of all work necessary to complete the works. Should there be any details of construction or materials which have not been referred to in the bill of quantities and drawings, but the necessary for which may reasonably be implied or inferred there from, or which are usual or essential to the completion of all works in all trades, the same shall be deemed to be included in the rates and prices named by the contractor in the Bill of quantities. The rates or prices are to cover the item as described in the bill of quantities, specification or drawings, the description in the bill of quantities shall prevail.
- 2.3 Each individual item in the bill of quantities is to be priced or if any items are not priced it is to be indicated under which item or items the value of the work has been included. Items, the prices of which are the same shall not be bracketed. If the contractor omits to price an item the cost of the work of such item will be held to be spread over and included in prices given for other items. He is not to mark items 'included' when the rate is asked for.



TENDER No. CE/56/2016

REVISED PRICE BID

Name of Work: PROVIDING FULL RAKE HANDLING RAILWAY LINE WITH PAVING 30M WIDE AT MORMUGAO PORT, GOA.

PART IV (iii) SCHEDULE OF QUANTITIES AND RATES

PART 1- SUPPLY OF TRACK RELATED MATERIALS & LAYING OF P-WAY

Ite m No.	Description	Quantity	Unit	Rate in Figures and Words	Amount Rs.
	PART 1- SUPPLY OF TRACK R	ELATED M	ATERIALS	& LAYING OF	
1	Supplying of Fish Plates for 60kg rail 610mm long as per RDSO Drg No T-1898 as per latest RDSO 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. NOTE: Unit of measurement is Number. Fish plates fixed at	120	Number		
	RI,RO,LI, LO are 4 nos. as a single set.				
2	Supplying of Fish bolts and nuts for 60kg rail as per RDSO Drawing No T-1899 and latest IRS-Specifications T-23 and 28 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.	250	Number		

Item No.	Description	Quantity	Unit	Rate in Figures and Words	Amount Rs.
3	Supplying of Junction Fish Plates to match 52kg/60 kg rail section as per latest approved RDSO Drawings. T-696 to T-699 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.	8	Number		
4	Supplying of 60kg PSC Mono Block Sleepers to suit 60kg or 52Kg rail as per IRS specification T-39 as amended up to date and RDSO drawing No.T-2496 with upto date revisions for Plain tracks. The rate shall be inclusive of 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.	1000	Number		

Item No.	Description	Quantity	Unit	Rate in Figures	Amount
				and Words	Rs.
5	Supplying of 60kg PSC Mono Block Sleepers to suit 60kg or 52Kg rail as per IRS specification as amended up to date and RDSO drawing with upto date revisions for curves. The rate shall be inclusive of 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.	1500	Number		
6	Supplying of Cut Liners as per respective latest RDSO drawings 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. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	100	Number		
7	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 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.	300	Number		

Item	Description	Quantity	Unit	Rate in	Amount
No.				Figures and	Do.
8	Supplying of Check Blocks, Bolts, Nuts as per latest RDSO approved design and drawings 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. Supplying machine crushed stone ballast of 50mm size	150	Number	Words	Rs.
	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 the time of measurement are to be arranged by the contractor. The rate also includes leveling of ground, removing vegetation, small	10			

	trees and other unwanted materials, if necessary, where the ballasts are to be stacked. Contractor has to arrange for the same.	3500	Cubic Meter	
	Note: 75% payment shall be released on the net quantity accepted and 25% shall be released after stacking.			
10	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 and ballast stacks have been released for		Cubic	
	spreading. Quantity of ballast used and payment thereof shall be made for the net quantity of ballast as paid vide Item No. 20 above.	3500	Meter	

Item No.	Description	Quantity	Unit	Rate in Figures and	Amount
				Words	Rs.
	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 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			Figures and	
	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.	2.05	Kilometer		

Item No.	Description	Quantity	Unit	Rate in Figures	Amount
140.				and	
				Words	Rs.
12	Ist 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.	2.05	Kilometer		
13	IInd packing of Track while	2.03	Kilometei		
13	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.	2.05	Kilometer		
14	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,	2.05	IZ'l (
15	materials, etc. complete. Assembling and Insertion of 1	2.05	Kilometer		
15	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,	9	Sets		

	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), 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.			
16	Ist 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.	9	Set	
17	IInd packing of Turnouts	3	361	
''	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,			
1.5	materials, etc. complete.	9	Set	
18	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.	9	Set	

Item No.	Description	Quantity	Unit	Rate in Figures and	Amount
				Words	Rs.
19	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.	4	Sets		
20	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	200	Meter		

Item No.	Description	Quantity	Unit	Rate in Figures and	Amount
				Words	Rs.
21	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. NOTE: The unit of Meter consists both side rails,			Words	Rs.
	sleepers and all other fittings required thereof.	300	Metre		
22	Supply and Erection of existing dismantled 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.	1	Number		

Item No.	Description	Quantity	Unit	Rate in Figures	Amount
				Words	Rs.
23	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 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			and	Rs.
	profile complete.				
	The unit of Meter consists both side rails, sleepers and				
	all other fittings required thereof.	1500	Meter		

NI -	Description	Quantity	Unit	Rate in	Amount
No.				Figures & Words	Rs.
24	Supply and laying of unmanned Level Crossing Material 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.	1	Number		
25	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.	20	Number		
26	Providing & laying NP3 class, 450mm 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.	100	Metre		

Item No.	Description	Quantity	Unit	Rate in Figures &	Amount
				Words	Rs.
27	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.	100	Metre		
28	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.	100	Metre		
29	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.	100	Metre		

Item No.	Description	Quantity	Unit	Rate in Figures and Words	Amount Rs.
30	Providing and laying Heavy duty interlocking concrete paving blocks of approved pattern with compressive strength 250Kg/Cm2 (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. Total of PART - 1	600	Square Metre		
	I OLAI OI FAILI - I				



TENDER No. CE/56/2016

REVISED PRICE BID

Name of Work: PROVIDING FULL RAKE HANDLING RAILWAY LINE WITH PAVING 30M WIDE AT MORMUGAO PORT, GOA.

PART IV (iii) SCHEDULE OF QUANTITIES AND RATES

PART 2- EARTH WORK

Item No.	Description	Quantity	Unit	Rate in Figures and Words	Amount Rs.
	PART 2- EARTH WORK			1	
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,	5200	CUBIC		
	materials, etc. complete.		METRE		

Description	Quantity	Unit	Rate in Figures and	Amount
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			Words	Rs.
necessary logistic system. All tools, plant, machinery, labour	7500	CUBIC METRE		
Earth work excavation for formation of embankment for laying permanent way, trenches for storm water, services, retaining wall foundations, etc., in hard rock, laterite boulders interspersed with murrum, 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		CUBIC		
	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. Earth work excavation for formation of embankment for laying permanent way, trenches for storm water, services, retaining wall foundations, etc., in hard rock, laterite boulders interspersed with murrum, 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	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. Earth work excavation for for formation of embankment for laying permanent way, trenches for storm water, services, retaining wall foundations, etc., in hard rock, laterite boulders interspersed with murrum, 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	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. Earth work excavation for formation of embankment for laying permanent way, trenches for storm water, services, retaining wall foundations, etc., in hard rock, laterite boulders interspersed with murrum, 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 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	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, labour and materials etc. complete. Earth work excavation for formation of embankment for laying permanent way, trenches for storm water, services, retaining wall foundations, etc., in hard rock, laterite boulders interspersed with murrum, 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 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

Item No.	Description	Quantity	Unit	Rate in Figures and	Amount
4	Excavation in existing Asphalt surface road, boulders interspersed with asphalt 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. Excavation shall be using earth moving machinery and necessary logistic system. The rate shall be inclusive of all labour, tools and plant, materials, etc.		SQUARE	Words	Rs.
5	complete. 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.	3200 80	METRE CUBIC METRE		
6	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. Total of PART - 2	9300	CUBIC METRE		



TENDER No. CE/56/2016

REVISED PRICE BID

Name of Work: PROVIDING FULL RAKE HANDLING RAILWAY LINE WITH PAVING 30M WIDE AT MORMUGAO PORT, GOA.

PART IV (iii) SCHEDULE OF QUANTITIES AND RATES

PART 3 – LOADING PLATFORM

Item No.	Description	Quantity	Unit	Rate in Figures and	Amount
				Words	Rs.
	PART 3 – LOADING PLATF	<u>ORM</u>			
1	Earth work excavation for formation of embankment for platform, trenches for storm water, services, cross drainage works, 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.	2600	CUBIC METRE		

Item No.	Description	Quantity	Unit	Rate in Figures	Amount
				and Words	Rs.
2	Earth work excavation for formation of embankment for platform, trenches for storm water, services, retaining wall foundations, etc., in hard rock, laterite boulders interspersed with murrum, 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.	1150	CUBIC METRE		
3a	Providing soling using excavated rubbles/stones to a consolidated thickness of 20cms. in retaining wall foundation, trenches for storm water, services, etc. using 10 to 20cm (avg.) size hard laterite rubble stone including breaking to required size, laying to necessary levels, hand packing, filling interstices with small stone chips/spalls, watering copiously, ramming, consolidating, all lifts, leads, etc. as directed. All tools, plant, labour and materials, etc. complete.	400	Cubic Metre		

Item No.	Description	Quantity	Unit	Rate in Figures	Amount
				and Words	Rs.
3b	Providing soling using laterite rubbles/stones brought from outside to a consolidated thickness of 20cms. in platform foundation, trenches for storm water, services, etc. using 10 to 20cm (avg.) size hard laterite rubble stone including breaking to required size, laying to necessary levels, hand packing, filling interstices with small stone chips/spalls, watering copiously, ramming, consolidating, all lifts, leads, etc. as directed. All tools, plant, labour and materials,	400	Cubic Metre		
4	etc. complete. 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.	130	Cubic Metre		
5	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.	2000	Cubic Metre		

Item No.	Description	Quantity	Unit	Rate in Figures & Words	Amount Rs.
6	R.C.C. M25 design mix in accordance with latest I.S code specifications for mix design or any other approved methods for mix design using suitable recommended admixtures, if required, for obtaining technical specifications such as workability, slump, strength, etc. with minimum cement content 400 kg/cu.m. using 20mm graded black trap stone metal out of quarried boulders as coarse aggregates in retaining wall foundations, retaining wall upto adjacent ground level, etc. of any size and shape as per detailed drawing including mixing, placing, transporting, consolidation, vibrating with mechanical vibrators, levelling, curing, sand screening, any lifts and leads, etc. complete but excluding cost of steel reinforcement and cost of shuttering/formwork. All tools, plant, materials and labour, etc. complete.	40	Cubic Metre	Troi us	
7	Providing reinforcement with high strength deformed cold twisted bars such as 'Torsteel' Tor 40 I.S. 1786 (latest edition) or TMT/ Fe 500 or any approved equivalent quality confirming to latest relevant IS code, etc. including cost of steel, wastage, cutting, bending, tying and placing of grills in position, all lifts and leads, scaffolding, providing necessary dowels bars, wherever required, as per detailed drawing or as directed, etc. complete including the cost of annealed steel wire 1.6 mm dia for tying grills, etc. All tools, plant, labour and materials, etc. complete.	40	Quintal		

Item No.	Description	Quantity	Unit	Rate in Figures and	Amount
8	Providing, fixing and removing necessary shuttering/formwork as approved for retaining wall foundations, retaining wall upto adjacent ground level, etc. including necessary strutting, props, staging, wedges, sealing joints to prevent leakage of slurry, oiling, scaffolding, jointing, all lifts and leads, etc. All labour, materials, tools and plant etc. complete.	11350	SQUARE METRE	Words	Rs.
9a	Providing and placing in position RCC Factory made Precast drain cover slabs of grade M30 of size 60x45x20 cm thick. Including providing shuttering, as per approved drawings and as directed by the Chief Engineer or his representative, etc Including all manufacturing costs, reinforcement, transportation, loading, unloading, placement, tools, plant, all leads and lifts, labour, etc. complete.				
9b	Note: Reinforcement will be paid under respective Item. Providing and placing in position RCC Factory made Precast drain cover slabs of grade M30 of size 75x45x20 cm thick. Including providing shuttering, as per approved drawings and as directed by the Chief Engineer or his representative, etc Including all manufacturing costs, reinforcement, transportation, loading, unloading, placement, tools, plant, all leads and lifts, labour, etc. complete. Note: Reinforcement will be	7600	NUMBER		

Item No.	Description	Quantity	Unit	Rate in Figures	Amount
				and Words	Rs.
10	Providing and placing in position PCC Factory made Precast kerb stones of grade M30 of size 60x30x10cm thick. Including providing shuttering, as per approved drawings and as directed by the Chief Engineer or his representative, etc Including all manufacturing costs, reinforcement, transportation, loading, unloading, placement, tools, plant, all leads and lifts, labour, etc. complete.	600	METRE		
11	Providing sub grade for road work by excavating/filling in hard Murrum or dense hard soil for an average depth of 15cms including loading, transportation, unloading as specified by Chief Engineer or his representative and 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 in layers, or filling in depression with good excavated earth, watering, rolling with heavy mechanical rollers (8 to 10 Ton capacity) to 98% MPD at OMC layer by layer and dressing to the Road Specifications. The rate shall be inclusive of all labour, tools and plant, materials, etc. complete.	18000	SQUARE		

Item No.	Description	Quantity	Unit	Rate in Figures and Words	Amount Rs.
12	Providing soling using laterite rubbles/stones brought from outside to a consolidated thickness of 50cms. in platform foundation in layers of 25cms, using 10 to 20cm (avg.) size hard laterite rubble stone including breaking to required size, laying to necessary levels, hand packing, filling interstices with small stone chips/spalls, watering copiously, ramming, consolidating/compaction with vibratory roller of 15T capacity, all lifts, leads, etc. as directed. All tools, plant, labour and materials, etc. complete.	9000	Cubic Metre		
13	Providing water bound macadam road having a consolidated thickness of 7.5cm using 20 to 50mm size trap metal aggregate and 9mm graded screenings for base course & murrum as binding material including spreading, packing, consoildating, rolling to required chamber and gradient, watering etc. Including, all lifts, leads, etc. as directed. All labour & materials etc. complete	18000	SQUARE METRE		

Item No.	Description	Quantity	Unit	Rate in Figures and Words	Amount Rs.
14	Providing and laying Heavy duty interlocking concrete paving blocks of Grade M50 approved pattern 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 clean 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.	18000	SQUARE METRE		
	Total of PART - 3				



TENDER No. CE/56/2016

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PART IV (iii) SCHEDULE OF QUANTITIES AND RATES

PART 4 - MISCELLANEOUS WORKS

Item No.	Description	Quantity	Unit	Rate in Figures and Words	Amount Rs.
	PART 4 - MISCELLANEOUS	S WORKS		Words	113.
1	Demolishing masonary in brick, CC solid blocks, CC hollow blocks, laterite stones work, etc. including disposal of material within a lead of 5.0Km, all lifts, transportation, scaffolding, etc. Power operated tools to be used for demolition work, including all tools & plant, labour, material		Cubic		
2	etc. complete. Demolishing RCC work in column footings, columns, beams, slabs, pedestals, or any RCC member in trap stone metal including disposal of material within a lead of 5.0Km, all lifts, transportation, scaffolding, etc. Power operated tools to be used for demolition work, including all tools & plant, labour, material etc. complete.	500	Metre Cubic Metre		
3	Cutting of reinforcement bars in RCC members using gas cutting or any power operated tools and taking away including all lifts, transportation, scaffolding, etc. to be used for demolition work, all tools & plant, labour and material complete.	2800	Square Metre		

Item No.	Description	Quantity	Unit	Rate in Figures and Words	Amount Rs.
4	Dismantling mild steel work in trusses, roofing, or any other structural members using angles, tees, flats, gussets plates etc. including bringing down using derrick, gas cutting / dismembering and taking away including all lifts, transportation, scaffolding, etc. Power operated tools to be used for demolition work, all tools & plant, labour and material complete.	500	Quintal		
5	Dismantling of Chain link fencing including structural members such as MS angles, flats, etc. using gas cutting / dismembering and taking away including all lifts, transportation, scaffolding, etc. Power operated tools to be used for demolition work, all tools & plant, labour and material complete.	1500	Square Metre		
6	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. Total of PART - 4	7000	Cubic Metre		



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PART IV (iii) SCHEDULE OF QUANTITIES AND RATES

SUMMARY ABSTRACT

Sr. No.	PART	AMOUNT Rs.
1	SUPPLY OF TRACK RELATED MATERIALS & LAYING OF P-WAY	1101
2	EARTH WORK	
3	LOADING PLATFORM	
4	MISCELLANEOUS WORKS	
	TOTAL	

Total amount in Figures Rs	
Total amount in words Rupees	
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

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.