

CORRIGENDUM-I

PART - A CLARIFICATIONS TO BIDDERS QUERIES

ICB: N1 - T07A/2017: Supply , Installation, Testing and Commissioning of one -16 Split Head B tamping machine for tamping of ballasted track laid on main line and in the two maintenance depots.

Sl.No.	Volume no.1	Clause No and Bid conditions	NMRCL's Replies
1	Technical Specifications	<p>Page 97: Clause:</p> <p>“Only a design and type of machine which has been sold atleast 10 nos. over the last 5 years in a minimum of</p> <p>Query:</p> <p>1. Would similar but not identical machines be acceptable?</p> <p>2. Would an evolution of an existing machine be acceptable?</p>	<p>Substantial similar machines are acceptable.</p> <p>Evolution of an existing machine specification will be acceptable provided it is economically viable.</p>
2		<p>Clause:</p> <p>“The machine shall be equipped with variable machine equipment, sleeper-end consolidators, ballast deflector unit, cabin fittings, buffer and draw gear, electric 5-channel recorder, optical direction finder, laser direction-finder, signalling equipment”</p> <p>Query:</p> <p>3. What is the need for draw gear if the drive is hydrostatic ?</p>	<p>In case of failure of machine it is required to attach to rail mounted vehicles to pull and clear the section. So, draw gear is required.</p>



Sl.No.	Volume no.1	Clause No and Bid conditions	NMRCL's Replies
		4. We need clearance gauge to determine feasibility for sleeper end consolidator.	Kinematic Envelop drawing is attached as Annexure –A.
		5. We need drawings and installation information for the buffer.	Attached as Annexure-B.
		6. Please clarify expectations for optical direction finder, laser direction finder. Why are an optical + a laser measuring and recording base needed ? is it either – or ?	It may be optical or laser measuring direction finder.
		7. Please provide detailed information about the signaling equipment, i.e. manufacturer, type, function, dimensions and weight. Confirm that this equipment will be provided by the customer.	Refer Addendum No.1
3		Page 98 table 13.2: "Total mass 38t" Query:	
		8. Why this limit? with 3 axle the max weight could be up to 48t	Machine shall be of heavy design with minimum mass of 38 ton.
4		Page 99: Properties of the Machine Clause: "The cabins shall be equipped with air conditioning." Query:	
		10. Is there a recommended air-conditioning manufacturer and type ?	Standard type of Air-condition to be provided in the cabin and the offer should include facility including serving details available in purchasers place.
5		Clause: "Tamping of plain track and points and crossings with conductor rail shall be possible." Query:	
		11. Please confirm that this means a guardrail ? if yes, provide drawings of typical examples.	Please refer Addendum No.1
		12. Or is it an electrified 3rd rail ? if yes, provide drawings of examples	Please refer Addendum No.1

Sl.No.	Volume no.1	Clause No and Bid conditions	NMRCL's Replies
6		Page 100: Clause: "The machine shall be equipped with an automatic steel chord levelling system, controlling the lift. "	
		Query:	
		13. MATISA uses an optical levelling system = no steel chord. Each manufacturer has developed different solution to reach the desired result. How would alternative ways of working be considered?	Supplier can propose their system to reach the desired result without any additional cost .
7		Clause: "The machine shall be equipped with an automatic steel chord lining system."	
		Query:	
		14. MATISA uses an optical levelling system = no steel chord. Each manufacturer has developed different solution to reach the desired result. How would alternative ways of working be considered?	Refer thereply for thw query no.13
8		Clause: "The lining process shall be carried out without previous measuring runs."	
		Query:	
		15. Does the network provide files with the known geometry or does it mean that the geometry is unknown?	Yes, it is with the known geometry.
9		Page 101:Clause: "Axles shall be steel forged with pressed on dip-forged solid disc wheels with diameter 730 mm approx. and the axle &wheel material shall be according to relevant EN standard."	
		Query:	
		16. Our standard wheels have a diameter of 840mm, is that acceptable?	Wheels having the diameter of 840 mm is acceptable.

Sl.No.	Volume no.1	Clause No and Bid conditions	NMRCL's Replies
10		Clause: "The machine shall be equipped with a water cooled diesel engine (Cummins or equivalent),"	
		Query:	
		17. We use Scania, eventually Caterpillar, is that acceptable?	Tender clause holds good.
		B) We have the following queries against Bid Document Section III. Evaluation and Qualification Criteria:	
11		Page 33	
		Clause: ITB 14.7 "The Incoterms edition is Incoterms 2015."	
		Query:1. The last official edition of Incoterm is Incoterm 2010©.	Tender clause holds good.
12		Reuested to provide the below listed details/documents	
		a) SOD (Schedule of Dimensions)	Please see Annexure - C
		b)Copy of applicable clearance Gauge/MMD (Maximum Moving Dimensions)	Please see Annexure - C
		c)Drawing of the Wheel Profile	Please see Annexure - A
		d) Drawing of the Couplers	Please see Annexure - B
13		Performance Bank Guarantee	Please see Annexure-D for revised Performance BG



CORRIGENDUM -1

PART - B : ADDENDUM

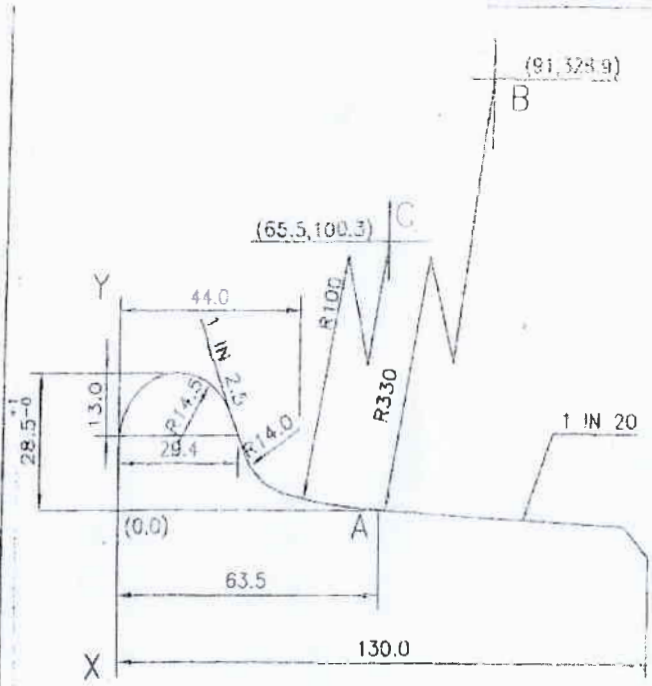
ICB : N1-T07A/2017

Supply , Installation, Testing and Commissioning of one -16 Split Head B tamping machine for tamping of ballasted track laid on main line and in the two maintenance depots.

SL.no	Tender clause	Existing clause	Amended as
1.	Technical Specification	The machine shall be equipped with variable machine equipment, sleeper-end consolidators, ballast deflector unit, cabin fittings, buffer and draw gear, electric 5-channel recorder, optical direction finder, laser direction-finder, signalling equipment.	The machine shall be equipped with variable machine equipment, sleeper-end consolidators, ballast deflector unit, cabin fittings, buffer and draw gear, electric 5-channel recorder, optical direction finder, laser direction-finder.
2	Technical specification	Tamping of plain track and points and crossings with conductor rail shall be possible.	Tamping of plain track and points and crossings shall be possible.


GM/ Procurement

ANNEXURE-A



PROCEDURE OF DRAWING -

1. DRAW A VERTICAL LINE X-Y.
2. DRAW SEMI-CIRCLE OF 14.5R TANGENTIAL TO LINE X-Y.
3. DRAW LINE 1:2.5 TANGENTIAL TO 14.5R SEMI-CIRCLE.
4. DRAW A HORIZONTAL LINE AT 28.5mm FROM THE TOP OF THE FLANGE, AND LOCATE Pt. 'A' AT 63.5mm FROM THE LINE X-Y.
5. FROM Pt. A LOCATE CENTRE 'B' OF ARC OF 330R ON A VERTICAL LINE AT 91mm FROM X-Y.
6. DRAW ARC OF 330R FROM CENTRE 'B'
7. LOCATE CENTRE 'C' ON VERTICAL LINE AT A HORIZONTAL DISTANCE OF 65.5mm FROM THE LINE X-Y SUCH THAT BC= (330-100) ie 230mm.
8. DRAW ARC OF 100R WITH CENTRE AS 'C'
9. DRAW ARC OF RADIUS 14mm TANGENTIAL TO 100R ARC AND LINE 1.2.5.
10. DRAW LINE 1:20 TANGENTIAL TO 330R ARC.
11. DRAW A VERTICAL LINE AT A DISTANCE OF 30mm FROM THE FLANGE END.

NOTE:

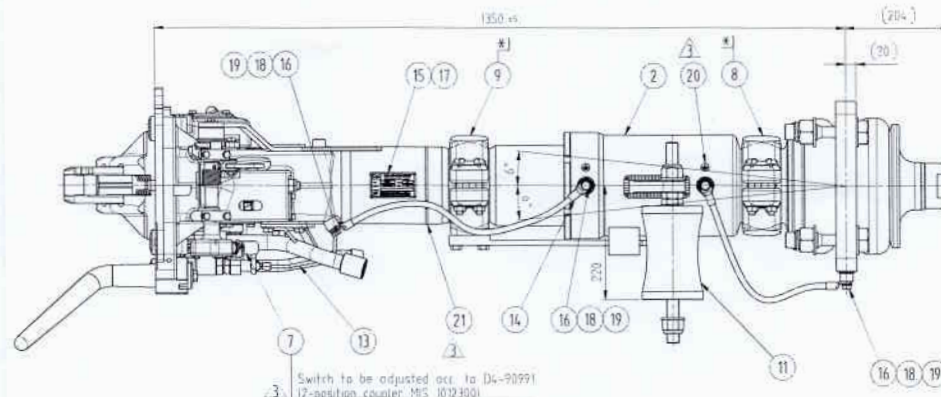
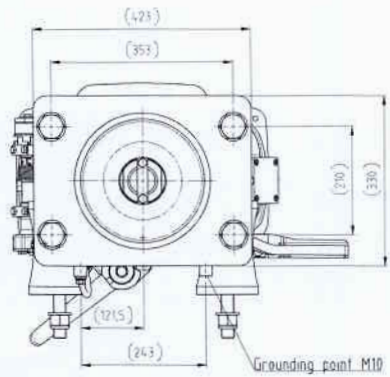
CO-ORDINATES OF POINTS B & C ARE BASED ON NOMINAL DIMENSION OF 28.5mm.

SUPERSEDED BY: SUPERSEDES: SCALE 1:1				P C D G.V.RAMAN T J.S.		WORN WHEEL PROFILE	
③ SS/24/04 CO-ORDINATES OF POINTS B & C ARE BASED ON NOMINAL DIMENSION OF 28.5mm.	DIMENSION 73.7 DELETED	9/04	B.G.		R.D.S.O. (C)		SNE 1011-01146
② J.S. CO/3/94	REVISED & REDRAWN	3/94					
① J.S. CO/7/92	CO-ORDINATES OF ARCS SHOWN	3/92					
ALT AUTH.	DESCRIPTION	DATE					

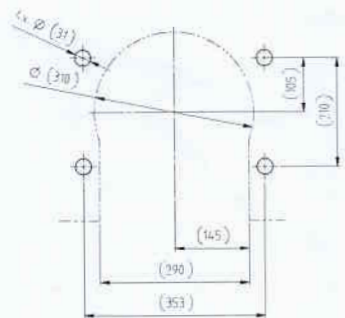
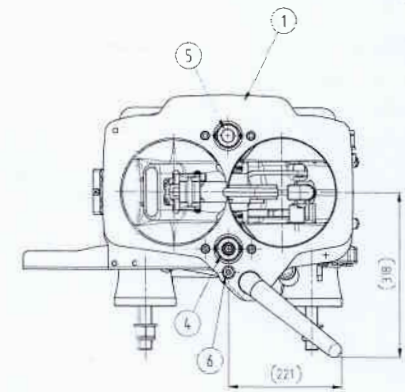
② INDICATIVE WORN WHEEL PROFILE

No.	Date	By	Check	By	Check
1	Drawing updated		130216	DLA	DLA
2	Drawing updated and released		130216	DLA	DLA
3	Rev acc to EP		55297	131007	DLA, JBo

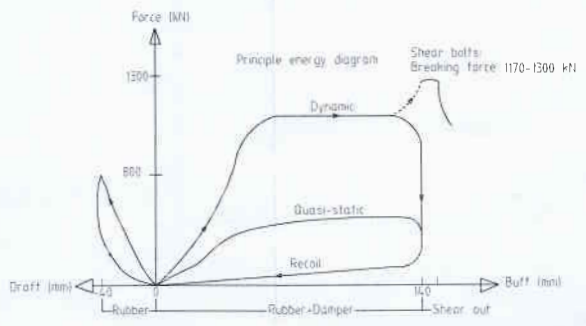
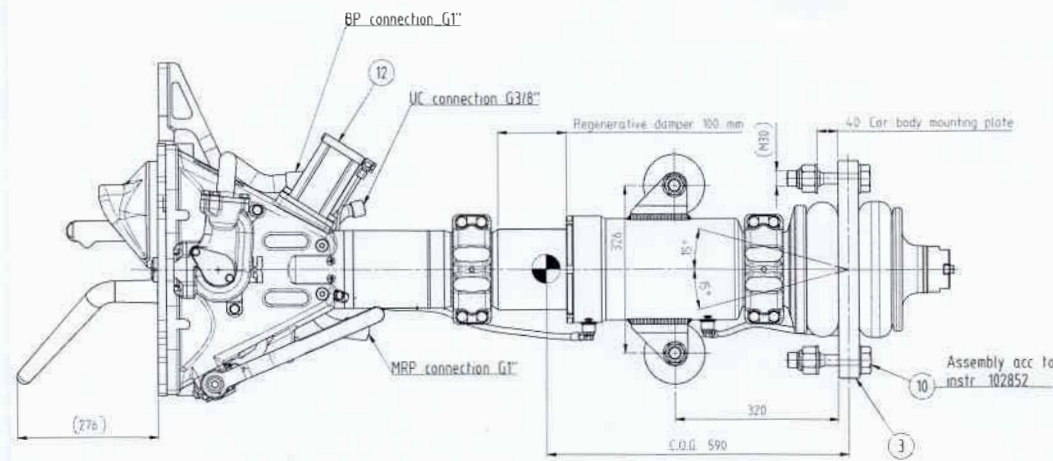
*) Assembly acc to instr D4-89071



Switch to be adjusted acc to D4-90991
3. 12-position coupler MFS 10121001



Cor Body hole interface



Movable parts greased at assembly with Lagermeister 3000.

Ground cable connected acc to DCAB instr AI 0415

All stickers to be edge sealed with clear varnish

Painted acc to DCAB instr AI 914 Colour: Black, RAL 9005

Unless otherwise stated, fasteners tightened acc to DCAB instr AI 907

Unless otherwise stated on drawing or in instruction, all torques are lubricated torque, use Molykote 1000 or equivalent

DLA

⊗ INDICATIVE AUTOMATIC COUPLER

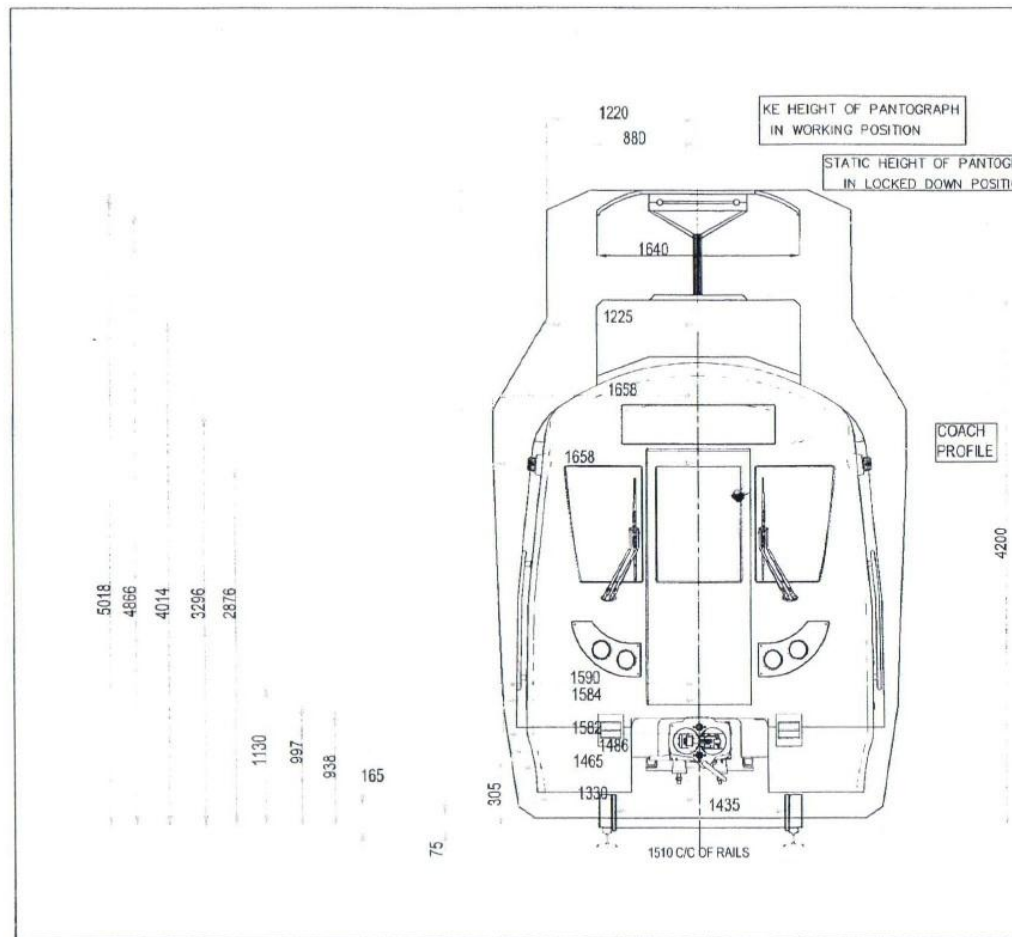
1	21	589570167	Cable strip	1x 29 Hx	B47A	L1752
1	20	14-19132	Sticker ground			
1	19	547010100	Lock washer	AL	VS20-10	
1	18	547785000	Washer	AL	ISO 7089 10,5x20x2	
1	17	528807905	Rivet	AZ	K05 NR 245	
1	16	501601020	Hex head screw	AL-80	ISO 4017 M10x20	
1	15	1044A8	Type sign			
1	14	104479	Ground table nut			
1	13	1044785	Pneumatic system			
1	12	101044	Shocking cylinder			
2	11	10438-1	Rubber Spring Kit			
1	10	104307	Release screw kit			
1	9	101070	Socket joint kit			
1	8	1008471	Socket joint kit			
1	7	1044781	MIS Complete			
1	6	1010801	SE valve complete			
1	5	1010753	BP valve complete			
1	4	103908	MRP valve complete			
1	3	103852	Rubber doughnut anchor			
1	2	104436	Single acting damper			
1	1	104435	Mechanical coupler complete			

Part No. Rubber Quantity Drawing DLA Date 1.5 320 104 334 9 2013-05-16 104 334 9 110	Part No. Article No. Description Name Unit JBo Date 1.5 320 104 334 9 2013-05-16 104 334 9 110	Part No. Article No. Description Name Unit JBo Date 1.5 320 104 334 9 2013-05-16 104 334 9 110	Part No. Article No. Description Name Unit JBo Date 1.5 320 104 334 9 2013-05-16 104 334 9 110
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Automatic coupler

DELLNER COUPLER

ANNEXURE-B



- NOTES
1. ALL DIMENSIONS ARE IN mm
 2. HORIZONTAL AND VERTICAL CLEARANCES DUE TO CURVES, INCLUDING VERTICAL CURVES AND CANT SHALL BE EXTRA
 3. KINEMATIC ENVELOPE IS VALID FOR VEHICLES WITH SEALED WINDOWS AND DOORS CLOSED WHILE IN MOTION
 4. THE CONDUCTOR HEIGHT ABOVE RAIL LEVEL SHALL ALSO TAKE IN TO CONSIDERATION PRESCRIBED ELECTRICAL CLEARANCES BETWEEN ALL LIVE OVERHEAD EQUIPMENT AND PANTOGRAPH / VEHICLE AND ALL PARTS THEREOF.
 5. A TYPE OR ATTACHMENT OF A WHEEL MAY PROJECT BELOW THE MINIMUM HEIGHT OF KINEMATIC ENVELOPE FOR A DISTANCE OF 51 mm INSIDE AND 216 mm OUTSIDE OF THE GAUGE FACE OF THE WHEEL.
 6. KINEMATICS ENVELOPE FOR 90 kmph VEHICLE SPEED AND SIDE WIND SPEED OF 100 kmph.

KINEMATIC ENVELOPE FOR 90 kmph
 AT-GRADE AND ELEVATED SECTIONS
 ON LEVEL OR CONSTANT GRADE TANGENT TRACK
 EXCEPT FOR PASSENGER PLATFORM

MAHARASHTRA METRO RAIL CORPORATION LTD

STANDARD GAUGE
 (1435 mm)
 25 kV A.C. TRACTION

FIGURE No. NMSG-1

SCALE: NOT TO SCALE	REF: PARA 1.5, 3.1 & 3.2
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ANNEXURE-C

Performance Security

Option 1: (Demand Guarantee)

Beneficiary: _____
Date: _____
PERFORMANCE GUARANTEE No.: _____
Guarantor: _____

We have been informed that _____ (hereinafter called "the Applicant") has entered into Contract No. _____ dated _____ with the Beneficiary, for the execution of _____ (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, waiving all objections and defenses under the aforesaid mentioned contract, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (),¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's first demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein. This guarantee shall expire, no later than the Day of, 2...², and any demand for payment under it must be received by us at this office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

¹ _____ The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency (cies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

² _____ Insert the date twenty-eight days after the expected completion date as described in GC Clause 11.9. The Employer should note that in the event of an extension of this date for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."