

The Automotive Research Association of India

(Research Institute of the Automotive Industry with Ministry of Heavy Industries & Public Enterprises, Govt. of India)

A A L N 0432

CERTIFICATE

Date: 29th December 2016

Cert	Brief	Drg	Total
5	7	2	14 Pgs

FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES.

1. In order to establish compliance to the provisions of CMVR, 1989, applicable as on date, documental verification/ necessary testing was carried out, on the following **base model**, submitted by the vehicle manufacturer referred below:

Documental Re	ference		Vehicle Manufacturer					
Current Certi	Current Certificate M/s. Tata Motors Ltd., Plants: Jamshedpur/ F				Pimpri, Pune – 411018 une/ Lucknow/ Dharwad/ Pantnagar			
	Diesel Er	igine			Engine M	lanufactu	irer	
Model ISBe5.9 230 40	200 - 1	ower 2500 rpm	cc 5883	M/s. Tata Cummins Ltd. Plant: Jamshedpur / Phaltan				
Base Mod	lel	Type (Cate	Type (Category: N3)		Seating Capacity (Incl. Driver)	GVW, kg	Gross Combination Weight (GCW), kg	
TATA LPS 4923 CR BS IV Haulage Tractor with sleeper cab		Haulage Tractor with sleeper cab		3800	2 Persons	25000	49000-When coupled with a suitable 3 axle semi-trailer	
Variants			Refer ANNEXURE-II					

- 1a. Brief technical specifications (No. STN01610, A) of the base model and its variants, as declared by the vehicle manufacturer are enclosed with this certificate. Detailed specifications (No. STN01610, A) of the base model and its variants, are also separately issued to the vehicle manufacturer.
- It is certified that the above base model and its variant comply with the provisions of the Central Motor Vehicles Rules, 1989, as amended up-to-date, including following requirements, (as detailed at ANNEXURE-I, IA & IB):

St	andards	Notification	Date	Effec	tive From	Applicable CMVR	
		000 04/5)	00.00.0000	OBD I	01.04.2010		
Bharat Stage-IV	For Notified Areas	GSR 84(E)	09.02.2009	OBD II 01.04.2013		115(15) (a), (b)(ii), (A)	
		GSR 443(E)	21.05.2010	01.06.2010			
Free Acceleration Smoke	Maximum Smoke Density	GSR 103(E)	23.02.2012	23	.02.2013	115 (2) (ii)	
Passby Noise Limits		GSR 111(E)	10.02.2004	01	.04.2005	120 (2)	
• • • • • • • • • • • • • • • • • • • •		S. O. 1365(E)	13.12.2004				
		GSR 589(E)	16.09.2005				
		GSR 784(E)	12.11.2008	Notified dates		ANNEXURE- I / ANNEXURE- IA /	
Brakes/Lamps/Reflex Refle	ectors/ Category of vehicle/	S.O. 436(E)	15.03.2012				
Tyres/VIN Number/ Se	eats, Anchorages, Head	GSR 290(E)	15.04.2015				
Restraints Mechanical Co	oupling Devices and other	GSR 291(E)	24.04.2014] NOL	neu uates	ANNEXURE- IB	
Safety Components		GSR 389(E)	09.06.2014	1		ANNEXONE	
		GSR 225(E)	26.03.2015	1			
		GSR 409(E)	18.06.2014	1			
	S.O. 411(E)	09.02.2016	7				
Gross Combination Weigh (as amended by S.O. 517 (S.O. 728(E)	18.10.1996	18	.10.1996			

3. This Certificate is issued as per CMV Rule 126, to establish compliance with the Central Motor Vehicles Rules, 1989, and shall not be construed as a certificate of compliance to any rules other than those listed in ANNEXURE-I, IA & IB. Compliance to these rules has been verified based on the use of specific components/parts assemblies etc. details of which would be given in the detailed specifications duly endorsed by ARAI as mentioned at para. 1a above. However, the attested drawings showing the actual installations wherever applicable and mentioned in the ANNXEURE-I are enclosed. It is the vehicle manufacturer's responsibility to ensure fitment of same components/parts/assemblies etc. before submission of the vehicle for registration.

A. A. BADUSHA

SR. DEPUTY DIRECTOR & HEAD

HOMOLOGATION MANAGEMENT, REGULATION & VEHICLE EVALUATION, ARAL PUNE.

VEHICLE EVALUATION, ARAI, PUNE.

AUTHORISED SIGNATORY

Pursue

Mrs. RASHMI URDHWARESHE DIRECTOR ARAI, PUNE.

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CMVR CERTIFICATE No. A

0432 dt. 29th December 2016

Following rules are verified and found to be complying.

Rule	No .	Sub Rules	Des	cription		Std. & effe	ective dt.	Drg	
93	(0)	(1), (2), (4), (6), (7)	Overall dimension of motor vehicle	es -					
94		(1), (2) & (3)	Condition of tyres						
		(1)	Size & Ply rating of tyres						
95		A.50					GSR 784(E) dt.		
30		(2), (3), (4), (5) & (6)(i) & (iii)	10.00R20, 16PR	MRF/ Apollo/ Ceat/ E		12.11.08 – Ref. ANNEXURE-IB			
		(Fr: Single & Rr: Dual)	10.00R20, 16FR	Part 1 to 8 as app		IS:11852	01.04.06	-	
		(1), (2), (3), (4)(ii), (5), (6), (7)(a), (8) & (9) (As amended	H	The second secon				Ni	
96		by GSR 389(E) dt. 09.06.14 &	Brakes	Automatic Wear Ad	justment	IS:11852:2001 (Par	(2) 01.04.15	1	
		GSR 225(E) dt. 26.03.15)	140	Fitted with A	BS	IS:11852:2003 (Par	t 9) 01.04.15		
98		(1), (2) & (3)	Steering gear	OF THE STATE OF THE STATE OF		IS:11948-1999	01.05.03	1	
99				Forward and backward motion					
	10. 1000	AND VIOLO RESEV	toot services on	As amended by	GSR 784(E) dt.				
100	(•1)	(1), (2) & (3)	Safety glass	12.11.08 - Ref. /					
	3 33	(4) 0 (0)(11)	VAE-daman udama	IS:15802-2008	01.10.14	As amended b		(#	
101	(•1)	(1) & (2)(ii)	Windscreen wiper	indscreen wiper 15:15802-2008 01:10:14		dt. 24.0	04.14	1"	
102		(1) & (2)	Signalling devices, direction indica	itors & stop lights		****			
103		(1) & (2)	Position of the indicator		×			1	
			Filmont of and actions	AIS:057:2005	01.04.06	As amended by	GSR 784(E) dt.		
104	(•)	(1), (2) (•2), (4) & (5)	Fitment of reflectors	Al3.057.2005	01.04.00	12.11.08 - Ref. /			
	9.4	(5)	Fitzer at a face as as a distant plate	AIS 089-2005	Not	As amended b		1	
104	(•)	(D)	Fitment of rear marking plate		Applicable dt. 24.04.14		04,14		
105	(e)	(1)(a), (2), (3), (4), (5) (•3) & (7)	Lamps (Amended by GSR 589(E)	dt. 16.09.2005)				1	
06		(1)	Deflection of lights					10	
07	(02)		Top Lights					Ni	
08	(0)	(1)	Use of red or white lights						
109			Parking light]	
11			Prohibition of spotlights etc.						
12		***	Exhaust gases]	
13			Location of exhaust pipes						
15	(03)	(1),(2)(ii), (15)(a), (b)(ii), (A)	Emission of smoke, vapour, etc. fr	om motor vehicle					
17		(1) & (2)	Speedometer	IS:11827-2008	01.04.15	As amended b	y GSR 291(E)	1	
118		(1), (2) & (3)	Speed Governor (Speed Limiting	g Function)-(ECU: Cum	mins)	AIS:018/2001	01.10.15	1	
110		(1), (2) & (0)		15:4884-4993	18.03.99	Limit	Measured Value		
119	. (0)	(1) & (2)	Horns (As amended by GSR 214)	(E)	04.40.44	93 dB(A) to	94.8 dB(A) to] (#	
		(-, (-,	& GSR 291(E))	IS:15796-2008	01.10.14	112 dB(A	104.6 dB(A)		
		(1)	Silencers			IS:3028-1998	01.01.03	1	
20		4 W (GVW > 3.5 t)	Pass By Noise Limits			Limit	Measured Value	1	
120		(2) Engine Power > 150 kW	(MoRTH Notification No. 111(E) d	10 02 04 wef 01 04 2	2005)	80 dB(A)	79 dB(A)	1	
		Eligille Fower > 130 KVV	Embossment of the Chassis Numl			Page Charles of the Charles		N	
22		(1) & (2)	of manufacture (Ref: Table 11 of the	per & Engine Number and	uale	As amended by	GSR 784(F) dt		
energy energy		S. O. 1365(E) dt.13.12.2004	of manufacture (Ref. Table 11 of the	brief rechilical opecifications	7	12.11.08 - Ref.			
	(0)	Refer ANNEXURE-IA & IB	Safety standards of components a	is applicable					
24		Relei ANNEXORE-IA & IB	Rear Under Run Protection Device	e IS:14812-2005	Not	As amended b	v GSR 291(F)		
otsoer		(1A)		IS:14682-2004	Applicable	dt. 24.		(#	
		• 27.75	Vehicle Lateral Protection Side		Applicable			_	
		(1) & (2)	Rear View Specifications	AIS:001/2001	01.05.03	As amended by	GSP 784/F) dt		
25	(0)	(1,) = (=)	Mirror Installation	AIS:002/2001		12.11.08 - Ref.		(#	
	1 1	(6) (M2, M3, N1, N2 & N3)		neir AIS:023:2005	01.10.09	12.11.00 - Itel. 2	ANNEXONE-ID		
			anchorages, Head Restraints	AIS-091 (Part 1)	01.04.16	As amended b	v GSR 409(F)		
25D		(2)(a)	Interchangeability Warning Size & Specificatio	ne		As amended by		N	
38		4(c)	Warning Size & Specificatio Triangles Installation	AIS:022-2001	01.01.03	12,11.08 - Ref.			

Note	1.		Compliance has been established for the above parameters, based on a prototype model / mockup sample representing completely built vehicle, submitted by the vehicle manufacturer.								
	2.	Vehicles with incomplete configurations of the body work:									
	(#)	approved, are indicate	Installation to be checked by RTO, as per attested drawings given in the detailed specifications. Fitment & location for items marked (#) as approved, are indicated in the drawings. These are representative drawings, styling etc. may differ.								
		To be verified after bo	dy building at the time of reg	istration, in addition to the rules marked (•)							
	(•) (•1) without (•2) Goods (•3) Bus application, windshield application (Mass Emissions for Auxiliary Engine if fitted)										

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CT0EL 0320 dt. 18.11.2016 Ref. | APEX/16-17/14474 | Emission Test Report No



CMVR CERTIFICATE No. A

N

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Rule 124 (1)				Compliance	Goods	Carrier	
Sr. No.		Pa	rticulars	Verified for	13 Dec '04	01 Apr '05	
1.	Automobi	iles Lamps		AIS-034/2004	-	w.e.f. 01.10.05	
2.	Hydraulic	Brake Hose		IS:7079-2008	Not An	plicable	
3.		Brake Fluid		IS:8654-1986	450	plicable	
4. (•)	'T' Signs			IS:9942-1981	✓		
7.	Fuel Tank	•	Non-Plastic	IS:12056-1987	✓ ,	, =	
8.	Wheel Rin	ms		IS:9438-1980	✓		
11. (•)	External F	Projections		IS:13942-1994	1		
14.	Wheel Nu	its, Disc & Hub Ca	ps	IS:13941-1994	1		
15.	Accelerat	or Control System	1	IS:14283-1995	1	-	
16. (•)	10.1993020000000000000000000000000000000000		ntion Components	IS:14225-1995	1		
17.	Hood Late		•	IS:14226-1995	Not Ap	plicable	
18.		symbols and cont	rol	AIS-071-2009 (Part-1 & Part-2)	-	w.e.f. 15.03.13	
	Installation of Lighting/ Signalling Devices		Performance Requirements	AIS-012/2004	3	w.e.f. 01.10.05	
20.			Installation Requirements	AIS-008 (Rev. 1)-2010		w.e.f. 01.10.12	
21.	(ii)	(ii) EMC		AIS-004 (Part 3)- 2009	-	w.e.f. 01.10.1	
23.	Gradeabil	lity		AIS-003/1999	1	()	
31.	Fuel Cons	sumption		IS:11921-1993		1	
				S.O. 1431(E) dt. 20	.08.2007 w.e.f	. 01.04.2008	
				S.O. 1129(E) dt. 12	THE RESIDENCE OF THE PARTY OF T		
Complia	ice to add	litional requiren	nents vide Notification No	S.O. 2714(E) dt. 04.11.2010 w.e.f. 01.04.2012			
				S.O. 1558(E) dt. 18			
				S.O. 411(E) dt. 09	.02.2016 w.e.f.		
33.	Spray Su	pression	72	AIS-013 (Rev.1)/2014	9 	√ w.e.f. 01.10.1	
42.	of vehicle	es (S.O. 1431(E))	is fitted on L5, M and N categories	AIS:046-2005	12 <u></u>	w.e.f. 01.04.08	
35.	manufact	ured and fitted	protection of occupants in a cab by OE vehicle manufacturers on and after 1st October 2008 (S.O.	AIS:029/2004		w.e.f. 01.10.0	
38.	The interi	ior fittings on auto	omotive vehicles of M2, M3, N1, N2 ting models)	AIS:047-2009		w.e.f. 01.04.12	
22(a)	Mechanic	al coupling device	es and components	AIS-091(Part 1)/2009	(w.e.f. 01.04.1	
40.	Interior N	oise Level Requir	ements	IS:12832:2010		w.e.f. 01.10.16	

To be verified after body building at the time of registration.

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ANNEXURE-IB

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To A A L N 0433

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75	CMV Rule		Test Standards	Effective From	Compliance Verified
2 (x)	Definitions (Classification of the Vehicle) - N	13	AIS:053:2005	12.11.2008	✓
95(1)		e and Ply rating of tyres			
104(1)	Fitment of Reflectors	N1, N2, N3, N3G	AIS:090-2005	01.04.2009	✓
,	The state of the s	ehicle identification number VIN Number			1
122(1)	including month and year of manufacture.	Manufacturer's Plate (for N Category Vehicles)	AIS:065:2005	01.04.2009	✓
125(1-C)	Temporary Cabin fitted on drive away	AIS:070-2004	01.04.2009	1	
CMV	Rule 124(4) The procedure for type app	roval and establishing c	onformity of produ	uction for comp	onents
SI. No.		As applicable for M & N			
1, 3 & 4	Safety Glass, Horn, Tyre	54	AIS:037-2004	01.04.2009	✓
7, 8, 11, 12, 13, 14	Bulb, Rear View Mirror, Wheel Rim signaling devices, Retro-reflectors and		AIS:037-2004	01.10.2009	1
19, 20 & 21	Door Locks and Door Retention Comp Reflective Tapes	AIS:037-2004	01.04.2010	✓	
CMV Rule -	- 125				
Sub-Rule (1-B)	The Front Under Run Protective Devic Categories of the motor vehicles	es fitted on N2 and N3	AIS:069-2006	01.10.2009	1

Disclaimer:

- 1. ARAI issues "Type Approval Certificates" (TAC) for vehicles/ components/ parts/ assemblies etc. based on the documents produced and /or prototype/s submitted by the applicant and testing thereof.
- ARAI issues TAC in compliance to Motor Vehicle Act / Central Motor Vehicles Rules and their provisions as amended from time to time or any other statutory orders under which ARAI is authorised. Other Rules/ Acts are outside the purview/ scope of TAC.
- Test(s) on prototype(s) is/are carried out on the basis of standard procedures as notified under specific rules.
 Results of such tests are the property of bearer of TAC. These results cannot be disclosed unless specifically so ordered by Government, Court, etc.
- 4. The bearer of the TAC is under obligation to ensure production strictly as per the provisions of the specific TAC.
- ARAI is not responsible for testing each vehicles/ components/ parts/ assemblies etc. for which TAC is issued.
 Further, ARAI is not responsible for ensuring manufacturing quality of the type approved vehicles/ components/ parts/ assemblies etc.
- 6. ARAI is in no way responsible for any misuse or copying of any design/ type/ system in connection with entire vehicle/ components/ parts and assemblies covered under the TAC.
- 7. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the bearer of TAC and ARAI shall not be liable for any claims or damages. The bearer shall alone be liable for the same, and shall undertake to indemnify ARAI in this regard.
- ARAI has the right, but not under obligation, to initiate cancellation/ withdrawal of the certificate issued, in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of ARAI.

The appropriate local courts at Pune shall have the jurisdiction in respect of any dispute, claim or liability arising out of this certificate/ Report.

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ANNEXURE-IB

To

CMVR CERTIFICATE No. A

0432 dt. 29th December 2016

	Variants	Type (Category: N3)	Wheel Base, mm	Seating Capacity (Incl. Driver)	GVW, kg	Gross Combination Weight (GCW), kg
1	TATA LPS 4923 CR BS IV Haulage Tractor chassis with cowl	Haulage Tractor chassis with cowl	3800	1 Person		9
2	TATA SIGNA 4923.S CR BS IV Haulage Tractor with facelift sleeper cab	Haulage Tractor with facelift sleeper cab	3800	2 Persons	5	
3	TATA SIGNA 4923.S CR BS IV Haulage Tractor chassis with facelift cowl	Haulage Tractor chassis with facelift cowl	3800	1 Person		W
4	TATA LPS 4923 CR BS-IV, Haulage Tractor with sleeper cab	Haulage Tractor with sleeper cab	3880	2 Persons	25000	49000 - When coupled with a suitable 3 axle semitrailer
5	TATA LPS 4923 CR BS-IV, Haulage Tractor with Cowl	Haulage Tractor with Cowl	3880	1 Person	,	
6	TATA SIGNA 4923.S CR BS-IV, Haulage Tractor with Facelift sleeper cab	Haulage Tractor with Facelift sleeper cab	3880	2 Persons	8	
7	TATA SIGNA 4923.S CR BS-IV, Haulage Tractor chassis with Facelift Cowl	Haulage Tractor chassis with Facelift Cowl	3880	1 Person		O _B

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Brief Technical Specifications: Table7 of AIS007

Manufacturer's name and address Tata Motors Ltd., Mumbai, Jamshedpur, Pune, Lucknow, Dharwad, Pantnagar. Importer's Name and address (in case of NA CBU) **Vehicle Data Basic Model** TATA LPS 4923 CR BS-IV Type/Description Haulage Tractor with sleeper cab Variant(s) Refer Annexure- B Type/ Description Refer Annexure- B Category of the vehicle N3 Category of variant(s) N3 **Engine** Make Tata Cummins Limited, Jamshedpur/Phaltan. Model ISBe5.9 230 40 Type Compression Ignition Bore x Stroke, mm 102x120 No. Of cyllinders 6 5883 Displacement Compression Ratio 17.2:1 (+/- 0.5). Max. Engine Output, kW@rpm 170 kW @ 2500 rpm (+/- 5%) Max. Torque, Nm@rpm 850 Nm AT 1300-1800 rpm Air Cleaner type Dry type remote mounted Clutch Type Dry Single plate **Gear box** Make & Model G1150/9-DA (12.87)

Type Synchromesh

No. Of Gears 9 Forward + 1 Reverse

Gear Ratio

	G B Ratio-I	Overall Ratio-I	G B Ratio-II	Overall Ratio-II	G B Ratio-III	Overall Ratio-III
Final Drive Ratio	Refer Annexure'A'					
	Annexure A					
1st Gear						
2nd Gear						
3rd Gear						
4th Gear						
5th Gear						
6th gear						
Over Drive						

Manufacturer: TATA MOTORS LTD.		Document No.:	Test Agency:	Cert No.:
Signature		STN01610 , A	Signature	ARAI
	Stock		A. A. BADUSHA SR. DEPUTY DIRECTOR & HEAD, HOMOLOGATION MANAGEMENT &	Progress through Research E AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA
Name:	S V Joshi	Sheet No.1 of 9	Designation Pune	
Designation:	DGM(Certification)ERC	Date 06.09.2016	Date of issue	Page Noof



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Reverse									
7th Gear									
8th Gear									
Drive Axle (Fron	nt/ Rear/ All)		REAR	•					
Front axle ratio			DO NOT FILL						
Rear axel ratio			5.857 (41/7); 5.57 (39/7)						
<u>Steering</u>									
Type/ Description	on			M/S ZF(India) Ltd., M/s Rane Power Steering Systems Ltd.; M/s Forni Steering Gear Co.Ltd.China.					
Steering wheel	diameter, mm		Option I: 550 8	500 dia.,	Option II: 4	170 dia.			
Ratio				l for ZF & 4.1:1 for R		:1 for Forni, O	ption II: 23.6:1 for		
<u>Frame</u>									
Long member s	ize, mm		285 X 65 X 7						
Number of cross	Number of cross members								
<u>Suspension</u>									
Type/ Description	Type/ Description (Front)			Leaf Spring					
Type/ Description (Rear)			Leaf Spring						
Spring			Elliptic Multilea suspension; O Tandem TML E Spring, Rear-S Leaf Spring, R Elliptic Multilea	suspension suspension suspension from the suspension suspension suspension suspension from the suspension susp	on; Opt-II: Fem Bogie s Rear- Invert at-Parabolic pension; Opic Multileaf Elliptic Mul Rear- Semi	Front-Parabolic suspension; Op sed Leaf Tande Leaf Spring, F ot-V: Front-Sen Spring; Opt-V tileaf Spring; C Elliptic Multile	: Leaf Spring, ot-III: Front-Semi		
Anti-roll bar (Fro	ont)		YES						
Anti-roll bar (Re	*		Not Applicable						
Shock absorber	s (Front)		Hydraulic doub	le acting t	elescopic t	ype- (2 Nos.)			
Shock absorber	s (Rear)		Not Applicable						
<u>Brake</u>									
Service Brake (I	Brief Description)		Dual Treadle valve acting on all wheel swith Automatic wear adjuster fitted.						
Auto slack adjus	ster fitted (Yes/No	/Optional)	Yes						
,	ABS Fitted (Yes/ No/ Optional)			Yes					
`	Front (Disc / Drum)			Drum					
Rear (Disc / Dru	ım)		Drum						
Total Breaking A	Area (Front),Sq.cr	n.	Option I: 2180, Option II: 2470; Option III: 2366; Option IV: 2496.				ption IV: 2496.		
-	Area (Rear), Sq.cr		Opt I:- 2470 x 2						
	ATA MOTORS L		cument No.:	Test Age			Cert No.:		
Signature		6.	TNIO1610 A	Signature	` .				

Manufacturer	TATA MOTORS LTD.	Document No.:	Test Agency: Cert No.:	
Signature		STN01610 , A	Signature ARAI	
	Stock		Name A. A. BADUSHA SR. DEPUTY DIRECTOR & HEAD, ASSOCIATION OF INDI	
Name:	S V Joshi	Sheet No.2 of 9	Designation Designation	
Designation:	DGM(Certification)ERC	Date 06.09.2016	Date of issue Page No	.of



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Brief Technic	al Specifications :Table7 of AlS007
Parking Brake	Graduated Valve controlled Spring Brake Chamber integral with Rear Brake.
Secondary Brake	Right Hand operated graduated spring brake acting on all 4 rear wheels of Tandem Axle
Wheels and tyres	
Wheel rim Size, Front	Option-1) 7.5 X 20, Option-2) B7.5HD x 20, Option -3) 7.5 HD x 20.
Wheel rim size, Rear	Option-1) 7.5 X 20, Option-2) B7.5HD x 20, Option -3) 7.5 HD x 20.
Tyre Size designation including Ply	
Rating	
Front	Radial with tube - 10.00R20, 16PR, K, 3000/ 2725kg [For JK, MRF, Apollo, CEAT, JK (Cavendish), Bridgestone]; 10.00R20, 16PR, K, 3075/2725kg (For Michelin - Spain).
Rear	Radial with tube - 10.00R20, 16PR, K, 3000/ 2725kg [For JK, MRF, Apollo, CEAT, JK (Cavendish), Bridgestone]; 10.00R20, 16PR, K, 3075/2725kg (For Michelin - Spain).
Tyre Size (Other)	NA NA
Speed Index	For 10.00R20,16PR: K for JK, MRF, Apollo, Bridgestone, Michelin Spain, CEAT, JK (Cavendish).
Load Index/Load Rating	For 10.00R20,16PR: 3000/2725kg [For JK, MRF, Apollo, CEAT, JK (Cavendish), Bridgestone]; 3075/2725kg (For Michelin- Spain).
Tyre Type (Radial/ Cross/ Tube/ Tubeless)	Radial Ply with Tube
Laden tyre pressure, kg/sq.cm, Front	RADIAL TYRE: 8.5 kg/sq.cm (10.00R20)
Laden Tyre pressure, kg/sq.cm, Rear	RADIAL TYRE: 7.0 kg/sq.cm (10.00R20).
Laden Tyre Pressure, Kg/sq.cm, Other	NA NA
Electrical system	
System Voltage, V	24 V (2 nos. of 12V)
Battery Rating, Ah	100Ah / 120Ah / 130Ah / 150Ah / 180Ah
Wiper Motor	Option I: 17W, 2Speed Wiper Motor, Option II: 15SW61, Permanent Ferrite Magnet Field Motor (52Nm), 2Speed Wiper Motor
Wiping System(Brief Description)	POWER OPERATED
Fuel tank	
Material	SHEET EDD-513, SS:4011 OR SS:4010
Capacity, Itr	400 ltrs (Single), 600 Ltrs (2 Nos. of 300 ltrs. each), 300 ltrs (Single), 400 ltrs (300 ltrs + 100 ltrs)
<u>Dimensions</u>	
Wheel base, mm	Refer Annexure - B
Overall Width, mm	Refer Annexure - B
Overall Length, mm	Refer Annexure - B
Overall Height, mm	Refer Annexure - B
Front Track, mm	1964
Manufacturer: TATA MOTORS LTD Do	Cert No :

Manufacturer	TATA MOTORS LTD.	Document No.:	Test Agency: Cert No.:
Signature		STN01610 , A	Signature ARAI
	Stock		A. A. BADUSHA SR. DEPUTY DIRECTOR & HEAD, ASSOCIATION OF INDIA
Name:	S V Joshi	Sheet No.3 of 9	Designation
Designation:	DGM(Certification)ERC		Date of issue Page Noof



Brief Technical Specifications : Table7 of AIS007

Rear Track, mm	1905 for Bogie suspension, 1817 for Standard suspension
Min. ground clearance, mm	250mm
Cargo box dimensions, mm	NA
Load body platform area	NA
<u>Weights</u>	
Maximum GVW, kg (for rigid vehicles)	25000
Maximum GCW, kg (for articulated / combination vehicles)	49000
Maximum FAW, kg	6000
Maximum RAW, kg	19000
Kerb weight with 90% fuel (with spare wheel , tools, etc.), kg	Refer Annexure - B
Maximum gradeability in 1st gear	11 Degree with 5.857 RAR, 10.5 Degree with 5.57 RAR
Seating	
Seating Capacity	For Cowl: Driver, For Cab:Driver + 1.
Sketch showing seating layout with dimensions	Refer drg. No. a) For Sleeper cab: 2910 0601 40 26; b) For Cowl: 2910 0701 4004

Manufacturer	TATA MOTORS LTD.	Document No.:	Test Agency:	Cert No.:
Signature		STN01610 , A	Signature	ARAI
	Stock		Name A. A. BADUSHA SR. DEPUTY DIRECTOR & HEAD, HOMOLOGATION MANAGEMENT &	Progress through Research THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA
Name:	S V Joshi	Sheet No.4 of 9	Designation ARAI, PUNE	
Designation:	DGM(Certification)ERC	Date 06.09.2016	Date of issue	Page Noof

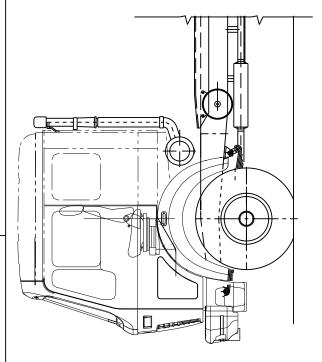
DA 5. Test Agenc Signature Name Designat Designat	Clause Description			ANNEXTURE- A SET OF VALUES	
Crawler/Low 12.87 1st gear 9.13 2nd gear 4.90 4th gear 3.57 5th gear 1.88 7th gear 1.88 7th gear 1.37 8th gear 1.37 8th gear 1.00 Reverse 13.4 Test Agei Struo1610, A Signature Sheet No. 5 of 9 Design Date of is			GEAR BOX	OVER/	OVERALL RATIO WITH R.A.RATIO
Crawler/Low 12.87			G1150/9-DA	OPT-I	
O7 Gear ratio Crawler/Low 12.87 12.87 4.90 9.13 9.1				5.857 (41/7	1/7)
O7 Gear ratio 1st gear 2nd gear 2nd gear 3.72 9.13 2nd gear 6.72 4.90 4.90 4th gear 3.57 4.90 4th gear 3.57 5th gear 1.88 7th gear 1.88 7th gear 1.37 1.88 7th gear 1.37 1.37 4 morors 1.37 1.37 1.37 1.37 1.37 1.34 1.37 1.34 1.34 1.34 1.34 1.34 1.34 1.34 1.34 1.34 1.34 1.34 1.34 1.34 3.34 1.34 3.34 </td <td></td> <td>Crawler/Low</td> <td>12.87</td> <td>75.42</td> <td>2</td>		Crawler/Low	12.87	75.42	2
O7 Gear ratio 2nd gear gear gear gear gear gear at 4.90 4.		1 st gear	9.13	53.50	30
Amotoristics Geal ratio 3rd gear 4.90 4th gear 3.57 3.57 5th gear 2.55 1.88 7th gear 1.37 1.00 Reverse 13.4 Test Agency Amotors Ltd. STN01610, A Signature ature: Sheet No. 5 of 9 Designation gnation: DGM (Vehicle Certification) Date of issue		2 nd gear	6.72	.68	38
4th gear 3.57 5th gear 2.55 6th gear 1.88 7th gear 1.37 8th gear 1.00 Reverse 13.4 Document No.: Test Agency A MOTORS LTD. STN01610, A Signature Signature Be: S V Joshi Sheet No. 5 of 9 Designation Pate 06.09.2016 Date of issue		3 rd gear	4.90	28.	71
Sth gear 2.55 6th gear 1.88 7th gear 1.37		4 th gear	3.57	20.	92
Certification Certificatio		5 th gear	2.55	14.	94
Th gear 1.37 8th gear 1.00 Reverse 13.4 MOTORS LTD. A MOTORS LTD. Test Agency STN01610, A Signature Signature Name Signation: DGM (Vehicle Certification) Sheet No. 5 of 9 Date 06.09.2016 Date of issue		6 th gear	1.88	11.02	2
Ifacturer: A MOTORS LTD. B Cocument No.: STN01610, A Signature Name Name Name Date 06.09.2016 Date of issue		7 th gear	1.37	8.03	
Ifacturer: A MOTORS LTD. B Cocument No.: STN01610, A Signature Name Name Designation: DGM (Vehicle Certification) Date 06.09.2016 Date of issue		8 th gear	1.00	5.857	7
Ifacturer: A MOTORS LTD. Document No.: STN01610, A Signature: Sheet No. 5 of 9 Jate 06.09.2016 Date 06.09.2016 Date 06.09.2016		Reverse	13.4	3.87	52
ature: Signation: DGM (Vehicle Certification) Sheet No. 5 of 9 Nate 06.09.2016 Signation: DGM (Vehicle Certification)	Manufacturer:	4 -	Document No.: STN01610. A	Test Agency:	
ature: Sheet No. 5 of 9 gnation: DGM (Vehicle Certification) Date 06.09.2016 Date 06.09.2016	, ,			Signature	
a: S V Joshi Sheet No. 5 of 9 Jate 06.09.2016 Definition	M			Name	
ynation: DGM (Vehicle Certification) Date 06.09.2016	Name: S V Joshi	10	Sheet No. 5 of 9	Designation	
	Designation: DGM (Vehicle ERC		Date 06.09.2016	Date of issue	

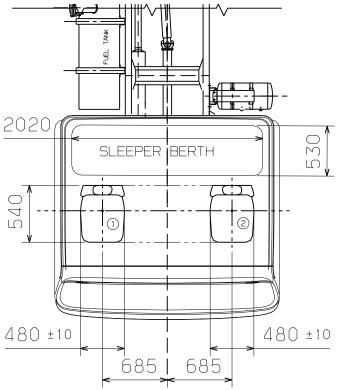
					,								СН
				~ Þ	ANNEXURE 'B' (Variant List)	RE 'B' List)						V	RESEAR OF INDIA
Model	Description	Suspension Type	Wheel Base in mm	Overall Length in mm	Overall Width in	Body Overall Height Overhang in mm mm -Fron	Body Overhang in mm -Front end	Frame Overhang capacity in mm - Rear end Ltrs.	Fuel tank capacity in Ltrs.	Front axle Kerb wt. (kg)	Rear axle Kerb wt. (kg)	Total axis	Progress through & AUTOMOTIVE SSOCHATION
Base Model	TATA LPS 4923 CR BS IV	Bogie	3800	6578	2598	2950	1345	678	300 400 (300+100)	3638 3700	4518 4580	8156 8280	O. THE
	nadiage Hactor with sleeper cap	ouspension							600 (300+300)	3800	4700	8500	š.
									300	3318	4518	7836	EAD,
Variant 1	TATA LPS 4923 CR BS IV	Bogie	3800	6578	2598	2950	1345	678	400 (300+100)	3380	4580	7960	SINA OR & HE
	Hadiago Hadio diassis with com	Capaciaici							600 (300+300)	3480	4700	81 80	BADUS DIRECTON MAN
									300	3638	4518	81 56	A. A UTY GATI
Variant 2	TATA SIGNA 4923.S CR BS IV Haulage Tractor with facelift sleener cah	Bogie	3800	6603	2598	2950	1370	678	400 (300+100)	3700	4580	8230	SREDEPI OMOLO REGI
	The second secon								600 (300+300)	3800	4700	85 0 0	S
									300	3318	4518	7836	
Variant 3	TATA SIGNA 4923.S CR BS IV Harden Tractor chassis with facelift cowl	Bogie	3800	6603	2598	2950	1370	678	400 (300+100)	3380	4580	7960	0.74
	300000000000000000000000000000000000000								600 (300+300)	3480	4700	8180	
		Standard							300 Ltrs.	3500	4166	7666	
Variant 4	TATA LPS 4923 CR BS-IV,	Suspension	3880	6844	2598	2950	1345	902	400 Ltrs. (300+100)	3562	4240	7802	0.84
	ו ומחומ לה ו ומהיהו אותו פוה הלהו המה	multileaf spring)							600 Ltrs. (300+300)	3662	4360	8022	
		Standard							300 Ltrs.	3323	4166	7489	
Variant 5	TATA LPS 4923 CR BS-IV,	Suspension (semi elliptic	3880	6844	2598	2950	1345	902	400 Ltrs. (300+100)	3385	4240	7625	0.80
	Transfer man com	multileaf spring)							600 Ltrs. (300+300)	3485	4360	7845	
	TATA SIGNA 4923.S CR BS-IV,	Standard							300 Ltrs. 400 Ltrs.	3500	4166	7666	
Variant 6	Haulage Tractor with Facelift sleeper cab	(semi elliptic	3880	6869	2598	2950	1370	902	(300+100)	3002	0424	7002	0.84
		multileaf spring)							(300+300)	3662	4360	8022	
	TATA SIGNA 4923.S CR BS-IV, Haulage Tractor chassis with Facelift	Standard Suspension			3)			300 Ltrs.	3323	4166 4240	7489 7625	
	Cowl	(semi elliptic multileaf spring)				1		;	600 Ltrs.	3485	4360	7845	;
Test Agency		_	Manufacturer:		TATA MOTORS LTD.	S LTD.			(300,300)	Document No.		(Indicating revision status)	status)
						11/ / "						(
Signature			Signature:		M	Joshi.					STN01610, A	0, A	
Name			Name:		loshi								
Designation			Designation:		DGM(Certification), ERC	on), ERC					Sheet No. 6	6 of 9	
Date			Date:	06.09	06.09.2016								



1516 SLEEPER CABS SEATING LAYOUT

SEATING CAPACITY: DRIVER + 1 (2 SLEEPER BERTHS)





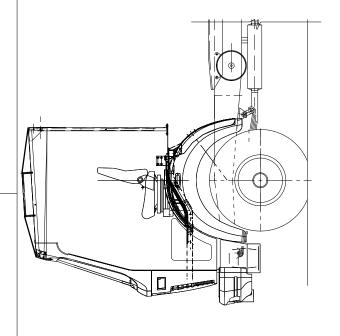
S. V. JOSHI
DGM (Vehicle Certification)
ERC, TATA MOTORS LTD.

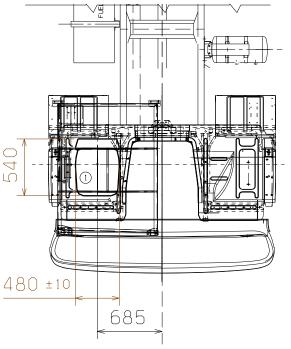
TEST AGENCY	MANUFACTURER:- TATA MOTORS LIMITED	(mass)	DRG. NO. ARAI
SIGNATURE	SIGNATURE	A. A. BADUSHA SR. DEPUTY DIRECTOR & HEAL HOMOLOGATION MANAGEMEN	8
NAME	NAME :- S.V.JOSHI	REGULATION, ARAI, PUNE	
DESIGNATION	DESIGNATION :-AGM(Veh.Certif	ication)ERC	SHEET No. 7 OF 9
DATE	DATE :-16/06/2007		SHEET NO. 7 OF 9

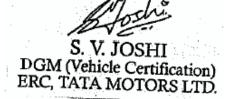


1516 COWLS SEATING LAYOUT

CAPACITY: DRIVER







TEST AGENCY	MANUFACTURER:- TATA MOTORS LIMITED	Mask	DRG. NO.
SIGNATURE	SIGNATURE	A. A. BADUSHA SR. DEPUTY DIRECTOR & HEAL HOMOLOGATION MANAGEMEN	2910THOTO PITIVA PEACY
NAME	NAME :- S.V.JOSHI	REGULATION, ARAI, PUNE	
DESIGNATION	DESIGNATION :-AGM(Veh.Certi	fication)ERC	SHEET No. 8 OF 9
DATE	DATE :-16/06/2007		SHELT NO. O OF 9

Table 11 of AIS:007 (Rev.05)

<u>Details of location of Chassis number and code for month and year of</u> <u>Manufacture as per rule 122 of CMVR</u>

	TATA Motors Limited,
Name of the Vehicle Manufacturer & Address	Mumbai, Jamshedpur, Pune, Lucknow, Dharwad, Pantnagar.
Name of the Basic model	TATA LPS 4923 CR BS-IV, Haulage Tractor with sleeper cab.
Name of Variants, if any	Refer Annexure- B
Place of Embossing or etching the Chassis Number (Vehicle Identification Number). Supporting details by drawing or pictures may be provided if necessary.	Front end of the left side long member.

Code for month and year of production:

Code for mo		Co		ear of production:	
Month	Code	Year	Code	Year	Code
January	Α	1.1.2016 to 31.12.2016	G	1.1.2031 to 31.12.2031	1
February	В	1.1.2017 to 31.12.2017	Н	1.1.2032 to 31.12.2032	2
March	С	1.1.2018 to 31.12.2018	J	1.1.2033 to 31.12.2033	3
April	D	1.1.2019 to 31.12.2019	K	1.1.2034 to 31.12.2034	4
May	E	1.1.2020 to 31.12.2020	L	1.1.2035 to 31.12.2035	5
June	F	1.1.2021 to 31.12.2021	M	1.1.2036 to 31.12.2036	6
July	G	1.1.2022 to 31.12.2022	N	1.1.2037 to 31.12.2037	7
August	Н	1.1.2023 to 31.12.2023	Р	1.1.2038 to 31.12.2038	8
September	J	1.1.2024 to 31.12.2024	R	1.1.2039 to 31.12.2039	9
October	K	1.1.2025 to 31.12.2025	S	1.1.2040 to 31.12.2040	Α
November	N	1.1.2026 to 31.12.2026	T	1.1.2041 to 31.12.2041	В
December	Р	1.1.2027 to 31.12.2027	V	1.1.2042 to 31.12.2042	С
		1.1.2028 to 31.12.2028	W	1.1.2043 to 31.12.2043	D
		1.1.2029 to 31.12.2029	X	1.1.2044 to 31.12.2044	E
		1.1.2030 to 31.12.2030	Υ	1.1.2045 to 31.12.2045	F

Position of the code for month of production in the Chassis number	MAT704XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Position of the code for year of production in the Chassis number	MAT704XXX <u>X</u> XXXXXXX (X – Year of Production) 10 th digit from left
	(X - Year of Production) 10" digit from left
Height of the Chassis No. (Vehicle Identification Number):	7 mm (Minimum)
Example of Engine number	21C63245567
Example of Chassis No. (Vehicle Identification Number) with Month & Year of Manufacture:-	MAT704251GUJ14805

	T		(13)	Progress through Research
Manufacturer :TATA MOTORS LTD	Documents No	Test	Ageney BADUSHA SR. DEPUTY DIRECTOR & HEAD.	Ceratunion DE INDIA
w/ /·	STN01610,A	Sign	HOMOLOGATION MANAGEMENT & REGULATION, ARAI, PUNE	TOSOSI MONOS PROPERTO
Signature:	Sheet No 9 of 9	Nam	e -	
Name: S V Joshi		Desi	gnation -	
Designation:DGM(Certification)ERC	Date - 06.09.2016	Date of issue -		Pageage.9 of 9 Of