GOVERNMENT OF INDIA: MINISTRY OF RAILWAYS RESEARCH DESIGN & STANDARD ORGANISATION MANAK NAGAR, LUCKNOW - 226011

EXPRESSION OF INTEREST

EOI No: CARR/VDG/01/2024 Date: 06.09.2024

Ministry of Railways, Research, Designs & Standards Organization (RDSO), Lucknow, India is interested in developing specification for the item, detailed as below:

S. No.	Name of work	Contact Person
1.	Development of	S.S.Raypa
	Technical Specification	Director/VDG/Carriage
	& STR for 'Control Arm Top	Carriage Directorate,
	and Control Arm Lower LH &	Annexe-I Building, RDSO,
	RH for Fiat Type Bogie of	Manak Nagar, Lucknow - 226011
	LHB coaches'.	Email: dirvdgcarr@gmail.com
		Fax No.: 0522 - 2450679

The firms, who have enough experience and capabilities in the above field, having necessary accreditation for such work and are interested in carrying out above work, are requested to see the functional requirements specification (FRS) for above work uploaded on RDSO website http://rdso.indianrailways.gov.in or contact concerned RDSO person on any working day. The interested firms may submit their details of the willingness for undertaking the above work in prescribed format attached herewith within one month from the date of publication of EOI. The interested firms are requested to submit details in the prescribed format available RDSO website (www.rdso.indianrailway.gov.in——> Vendor Interface——> EOI).

In case of any clarification/difficulty, industry may please contact concerned Director of Carriage Directorate whose contact details are indicated above on any working day.

INDIAN RAILWAYS



FUNCTIONAL REQUIREMENTS SPECIFICATION FOR CONTROL ARM TOP AND CONTROL ARM LOWER LH & RH FOR FIAT TYPE BOGIE OF LHB COACHES of INDIAN RAILWAYS

ISSUED BY:
CARRIAGE DIRECTORATE
RESEARCH DESIGN AND STANDARDS ORGANIZATION
MANAK NAGAR, LUCKNOW - 226011

FUNCTIONAL REQUIREMENTS SPECIFICATION FOR CONTROL ARM TOP AND CONTROL ARM LOWER LH & RH FOR FIAT TYPE BOGIE OF LHB COACHES of INDIAN RAILWAYS

1. FOREWORD

Indian Railway is intended to develop a Technical Specification & STR for 'Control Arm Top and Control Arm Lower LH & RH for Fiat Type Bogie'.

2. SCOPE

This document covers the functional requirements for the 'Control Arm Top and Control Arm Lower LH & RH for Fiat Type Bogie'.

3. WORKING CONDITION

WORKING CONDITION							
Train Type	High Speed						
Operational Speed	160 km/h						
Maximum Speed	200 km/h						
Max. Weight (one coach)	65 t						
Max. Axle Load	16.25 t						
Wheel Diameter	New: Ø 915 mm Worn: Ø 845 mm						
Coach body displacement under dynamic	Higher than specified in IEC 61373						
condition:							
Coach body displacement under dynamic							
condition:							
	!						
i) Vertically	i) ±100 mm						
	!						
ii) laterally	ii) ±55 mm						
,	!						
iii) longitudinally	iii) ±10 mm						
, ,							
iv) bogie rotation about center pivot	iv) ±4 ⁰						
20gio iotation about contor pivot							
	1						

4. ENVIRONMENT CONDITIONS

The Metal Bonded Rubber components are likely to be exposed to the following operating conditions:

- Change in temperature from -40°C to +70°C
- Relative humidity from 30% to 100%
- Altitude upto 3000 m.
- Average annual rainfall 1750 to 6250 mm.
- Maximum wing pressure 200 kg/m².
- Both acidic and basic cleaning product
- Urine, feces, and kitchen waste (restaurant cars)
- Sand, brake and ferric oxide dust (abrasion of wheel and tracks)
- Damage from flying stones raised from the ballast track bed.
- Salty air (coastal area)

5. FUNCTIONAL REQUIREMENTS

5.1 PURPOSE OF USE:

Control Arm Top and Control Arm Lower LH & RH is integral part of Bogie suspension and play vital role in ensuring safety reliability and passenger comfort. These items transmit accelerating / braking forces and provide Passenger safety, comfort. Control Arm has the task of transmitting the braking and acceleration forces of the bogie, compensate relative movement in vertical and transverse suspension and elastically guide wheelset over the axle guide.

5.2 CHARACTERISTICS

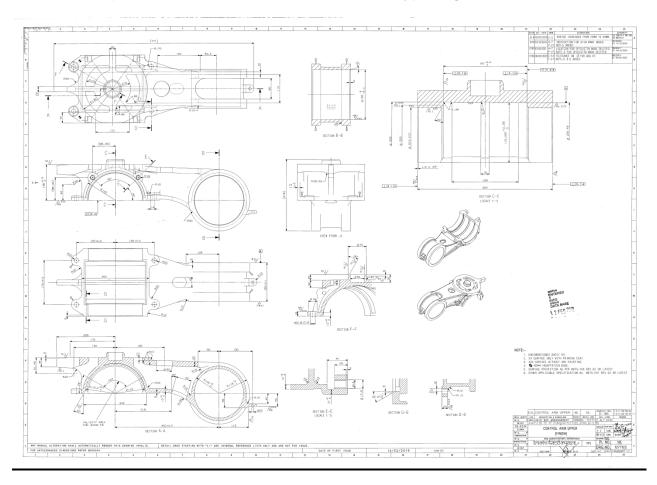
Characteristics and dimensions of various Control Arm of Fiat bogies of LHB coaches should be as under:

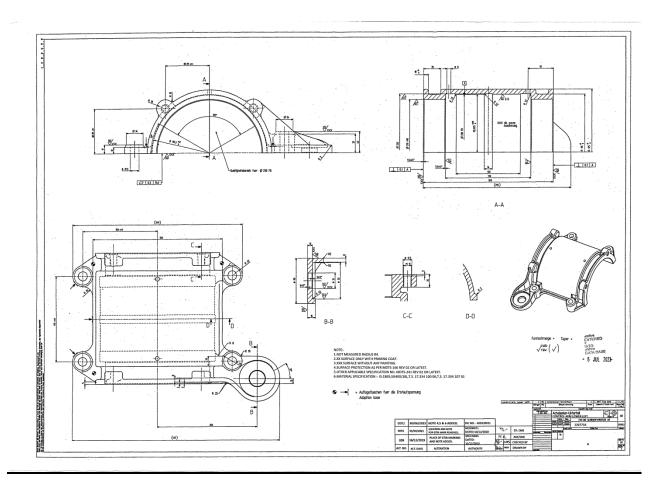
S. No.	Item	Characteristic and dimensional details
1.	Control Arm Top and Control Arm	As per Annexure – 1
	Lower LH & RH	

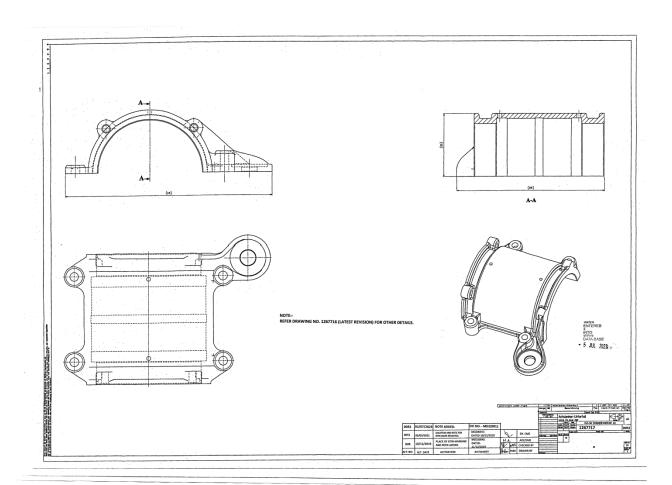
Note: Above functional requirements are indicative and not exhaustive.

Annexure – 1

Control Arm Top and Control Arm Lower LH & RH for Fiat Type Bogie







FORMAT FOR LETTER OF RESPONSE

Respondents Ref No.: Date:								
Re Re M M Lu	oom arria esea inisti anal ickn	tive Director (Carriage) No: 2 ge Directorate, Annexe I Building urch Designs & Standards Organization ry of Railways x Nagar ow – 226 011 Pradesh, India						
De	ar S	r,						
		Subject: RESPONSE TO – EOI FOR PARTICIPATION						
1.		, the undersigned, offer the following information in response to the Exprouvou vide your Notification No, dated	ression of Interest sought					
2.		We are duly authorized to represent and act on behalf of (hereinafter the "respondent")						
3.	We	have examined and have no reservations to the EOI Document	including Addenda No(s)					
4.	We	are attaching with this letter, the copies of original documents defining: -						
	a)	the Respondent's legal status;						
	b)	its principal place of business;						
	c)	its place of incorporation (if respondents are corporations); or its respondents are cooperative institutions, partnerships or individually over						
	d)	Self certified financial statements of Last three years, clearly indicating t net worth.	he financial turn over and					
	e)	Copies of any market research, business studies, feasibility reports and respondent, relevant to the project under consideration	the like sponsored by the					
5.		shall assist MoR and/or its authorized representatives to obtain furtheded.	er clarification from us, if					
	a)	RDSO and/or its authorized representatives may contact the following information on any aspects of the Response:	nodal persons for further					
	Г	S No Contact Name Address Tolonhone	E Mail					

6. This application is made in the full understanding that:

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- a) Information furnished in response to EOI shall be used confidentially by RDSO for the purpose of development of the project.
- b) RDSO reserves the right to reject or accept any or all applications, cancel the EOI and subsequent bidding process without any obligation to inform the respondent about the grounds of same.
- c) We confirm that we are interested in participating in development of the project.
- 7. We certify that our turnover and net worth in the last three years is as under:

Financial Year	Turn over	Net worth		

- 8. In response to the EOI we hereby submit the following additional details annexed to this application.
- 8.1. Details of various items being manufactured/consultancy undertaken.
- 8.2. Details of customer(s) and supplies made in the field of item under Eol.
- 8.3. Experience and expertise for the items proposed in EOI.

10. Our response is valid till (date in figures and words):

- 8.4. Details of man-power with their qualification and experience.
- 8.5. Detailed proposal for items proposed in EOI including alternative proposal, if any.
- 8.6. Details of Intellectual Property Rights (IPR) held, patent filed/held and MoU/agreement signed.
- 8.7. Details of ISO certification
- 8.8 Undertaking as per Annexure-A:
- 9. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail. We also understand that in the event of any information furnished by us being found later on to be incorrect or any material information having been suppressed, RDSO may delete our name from the list of qualified Respondents. We further understand that RDSO will give first preference to the applicants considered relevant for the purpose.

\/a	ırs sincerely,			
Y ()II	irs sincereiv			

(Sign)
NAME
In the Capacity of
Duly authorized to sign the
response for and on behalf
of
Date

Annexure-A

(To be taken on non-judicial stamp paper of appropriate value as applicable in the respective state and dully notarised & witnessed)

UNDERTAKING

I, son of	aged about	. Years	resident of	 do hereb	y solemnly	affirm
as under –						

- 1. That the deponent is the Authorised signatory of (Name of the Sole Proprietorship Concern/ Partnership Firm/ Registered Company/ Joint Venture).
- 2. That the deponent declares on behalf of (Name of the Sole Proprietorship Concern/ Partnership Firm/ Registered Company/Joint Venture) that:
 - a) In regard to matters relating to the security and integrity of the country, no charge sheet has been filed by an agency of the Government / conviction by a Court of Law for an offence committed by the ------(name of the entity)or by any sister concern of the -----(name of the entity) would result in disqualification.

DEPONENT

VERIFICATION

I declare that the contents of para 1 to 2 above are true as per my knowledge and nothing has been hidden.

DEPONENT