

TECHNICAL DELIVERY CONDITIONS

PROJECT : Mumbai Metro Cars L2 and L7

ITEM : ANTI ROLL BAR, ROD (525-83070)

Doc No : GR/TD/4930

Sl. No.	Clause Description	Compliance
1	The specification of the component shall be as per drawing 525-83070 (Anti Roll Bar, Rod).	
2	Vendor shall comply to clause 3.2.2 of ERTS	
3	The subcontractor shall provide necessary documents for obtaining vendor approval as per ERTS 3.2.5 (format attached as Attachment-2). Vendor approval is mandatory for all the subcontractors. Only approved vendors are considered for the supplies.	
4	The subcontractor shall provide necessary declarations on their letter head with signature and stamp. (Attachment-3 & Attachment-4). The subcontractor shall submit their company profile in additional to the declarations along with the bid.	
5	The firm shall submit material test certificates viz. chemical and mechanical properties and its standard.	
6	Vendor shall provide the necessary Standards used in the manufacture of anti roll bar rod.	
7	The vendor shall submit their detailed 2D Assembly drawing, Ball Joint drawing showing limits of movement & 3D catia/Stp. file along with their technical offer for due approval. The drawing should be legible and only in English Language.	
8	Supplier shall incorporate the material characteristics and properties in the drawing.	
9	All the characteristics in the drawing should be duly verified by physical testing and certified.	
10	Calibration certificates of all the test equipments to be submitted.	
11	Any applicable type tests and routine test procedures shall be submitted to M/s BEML for due approval.	
12	Type test(s) shall be performed only after due approval of test procedures by M/s BEML and reports shall be submitted before batch production.	
13	Routine test check-sheet/reports for each part should be submitted along with the supplies.	
14	Anti Roll Bar, Rod shall be packed safely in order to avoid damage during transit.	
15	QAP: The subcontractor shall issue the QAP in accordance with the relevant Quality System and the Employer's Requirements, and submit it to BEML for approval. Following content shall be included in the QAP:	

	<ul style="list-style-type: none"> • Process Control • Purchasing • Quality Audit • Inspection and Test Plan (ITP) • Quality Record • Design Control • Nonconformity control • Inspection and Test procedure 	
16	<p>ITP shall be submitted to the BEML within 2 weeks from purchase order placement date. It shall include at least the following:</p> <ul style="list-style-type: none"> • Sequence of inspection/testing activities • Inspection and testing requirements of either activities or materials • Acceptance criteria or relevant specification • Level of inspection required including the provision for witnessing by BEML and/or End User/his Representative • Any certification requirements or records to be kept; and • Records of any non-conformance identified during inspection or testing • BEML will designate witness/Hold point of BEML and/or Employer /his Representative and notify it to the Subcontractor. 	
17	Coating and painting system: Vendor shall submit the painting specification subject to approval of BEML.	
18	Warranty of 35 years	
19	O & M: The requirements for the O&M manual shall meet, but not be limited to Chapter 12 in ERGS. The subcontractor shall support BEML in meeting timelines for submission of manuals	
20	The supplier shall submit the complete manufacturing process flow chart	
21	The supplier shall submit confirmation for the above points along with their technical offer.	
22	<p>Attachments</p> <ul style="list-style-type: none"> ➤ MRS1, ERGS & ERTS ➤ Drawing No. 525-83070 -- Anti Roll Bar Rod ➤ Attachment 1: Submittals Check sheets ➤ Attachment 2: Vendor Approval Form ➤ Attachment 3: Declaration for clause 9.2 ➤ Attachment 4: Declaration for clause 10,11 	

