

Quarterly Maintenance Schedules	<b>Total 20 Quarterly Preventive Maintenance schedules</b> will have to be done by contractor during complete CAMC period. <b>Annual calibration of weighbridge by firm and Certification and stamping of weighbridge from State Authority</b> is to be done 5 Times in the whole of CAMC period.	Quarterly Maintenance schedule shall be carried out every 03 months within first 15 days of the commencement of the Quarter
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- (e) Penalty will be levied on the contractor as per clause 17.10, in case preventive maintenance scheduled work is not done/partially done by contractor as per "Quantity & Periodicity given in clause 17.7 (c) and Scope of work given in Annexure – 'F' for the applicable schedule".

### 17.8 Conditions for Breakdown Maintenance:

- (a) The tenderer shall ensure that in case a failure is reported by a consignee, qualified service engineers visit the site within 02 days from the date of complaint on calendar days' basis. This period of 2 days (excluding date of complaint) after the failure report shall be treated as grace period, which will not count towards plant down time for up to one failure per quarter and a maximum of 4 failures per annum. In case, the number of failures exceed one during any quarter or four during any year of CAMC, grace period of only 1 days will be permissible for such additional failures. Complaints shall be lodged by consignee by fax, e-mail or per bearer at address given by the tenderer. The responsibility to keep the failure reporting address details will rest with the tenderer.
- (b) In all cases of plant failure except as mentioned in clause 17.8 (c), any spare part or material necessary to restore the plant to proper working order after any breakdown will be arranged by the tenderer as a part of CAMC and no charges whatsoever will be payable by railways.
- (c) In case of damage to the machine on account of any external factor, viz., floods, earthquake, fire, arson or sabotage, entire cost of spare parts and material necessary for repair of the plant shall be borne by the railways. However, the tenderer shall provide services of their engineers free of cost as a part of CAMC to restore the plant to working order.
- (d) In case of damage to the plant as mentioned in para 17.8 (c), any spare parts and material necessary to restore the plant to proper working order shall be arranged by the tenderer and charged on actual basis duly certified by authorized railway official in the next quarterly bills. The rates charged for such spare parts shall be based upon the spare part rate list provided by tenderer in compliance of clause 5.1 of Section II or any other valid document. The tenderer shall furnish documents to support the rates charged for spares supplied by them in situation mentioned in clause 17.8 (c).
- (e) Penalty will be levied on the contractor as per clause 17.10, in case breakdown maintenance work is not done.

### 17.9 Payment of CAMC: Normally quarterly payment (@ 1/4<sup>th</sup> of the annual quoted rates) under CAMC will be made to the tenderer within 30 days from the end of that quarter subject to submission of the following documents by the tenderer to the paying authority assigned by the consignee:

- Consignee's certificate for work done as per Annexure-G of Section-III with calculation of down time and penalty applicable.
- A certificate by consignee that no spare part is due with the tenderer as per clause 17.3.10 above.
- Bills submitted by the tenderer & accepted by consignee.
- Attested photocopy of the CAMC BG

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**17.10 Penalty Clause:**

- (a) Penalty shall be calculated as %age of quarterly payment and will be deducted from the respective quarterly payments. Penalty calculation will be done over quarterly payment period.
- (b) Penalty will be levied on the contractor, in cases as given below.
- (i) In case Preventive Maintenance Schedule is not done/partially done,

Per instance of Quarterly Preventive Maintenance Schedule as per Annexure 'F' is Not done/Partially done.	100% of Quarterly CAMC Charges
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- (ii) In case machine/plant availability falls below the limit of 95% calculated on working days' basis, after discounting for grace period and preventive maintenance period.

S. No	Availability Slab	Applicable Penalty
1	95% and above	Nil
2	Below 95%	2.5% of Quarterly CAMC Charges for every 1% (or part thereof) reduction in availability of plant below 95%.)

- (c) Total penalty applicable on the firm will be sum of the applicable penalties calculated as per sub clause (i) & (ii) of Clause 17.10 (b) above.
- (d) Maximum Penalty levied on contractor shall not exceed 100% of Quarterly CAMC Charges.

**17.11 Security Deposit for CAMC:** A Bank Guarantee (BG) equivalent to 5% of the combined quoted cost of equipment including accessories, shall be deposited by the contractor to the consignee, 90 days before the expiry of warranty. CAMC BG will have the validity of 5 years and 6 months. The CAMC BG will be returned on completion of CAMC period subject to satisfactory performance of the firm during warranty period.

**17.12** It is the sole responsibility of bidders to stock all spares and materials as required for smoother execution of CAMC in order to achieve response time in compliance to machine availability as per stipulated requirements.

**17.13 Failure and Termination of CAMC:**

The CAMC contract can be terminated in either of the cases given below,

- (a) Machine/Plant availability falling below 75% for two consecutive quarters
- (b) Firm not performing/ partially performing preventive maintenance schedules as per periodicity mentioned in clause 17.7 (d) and scope of work given in Annexure – 'F' for two consecutive quarters.
- (c) Firm not performing Calibration by firm before it is due.
- (d) Certification and Stamping of Weighbridge from State Authority is not being done by firm before it is due.

Any of above situation(s) will constitute complete failure of tenderer to provide the CAMC services successfully. In such a case,

- (i) CAMC BG submitted by firm will be forfeited and
- (ii) Adverse performance of the bidder and/or agent will be noted and circulated all over Indian Railways and their offers in the subsequent tenders will not be considered for placement of any order. This will be in addition to penalty imposed vide clause 17.10.

**17.14** Other general conditions shall be governed by NER Bid Documents.

  
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**SCHEDULE-I****LEADING PARAMETERS OF RAIL WEIGHBRIDGE****MAJOR PARAMETER**

1)	Rail Weighbridge capacity	100 MT
2)	Platform size	22m x 3 m (Single platform)
3)	Least count	10 Kg
4)	No. of load cells	08 nos. or more
5)	Load cells type	Double Ended Shear beam type/ compression type
6)	Weighing Electronics	Microprocessor based tabletop type with Alpha numerical keyboard
7)	Memory of weighing electronics	1200 nos. (minimum)
8)	MIS reports	Weigh slip/truck- wise/material wise/ date wise
9)	Printer	Multifunction Print, Scan, Copy Laser printer make HP
10)	Non-linearity (Accuracy level)	$\pm 0.025\%$
11)	Sensitivity	2 mV/Volt $\pm 0.002\text{mV/V}$
12)	Protection of load cells	IP68 Class.

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**ANNEXURE TO SCHEDULE- I****NOTE : The tenderer should ensure that all the relevant data mentioned below be furnished positively.**

	<b>CAPACITY</b>	<b>Schedule - I</b>
<b>1.</b>	<b><i>LOAD CELL</i></b>	
<b>1.1</b>	Type/Manufacture	
<b>1.2</b>	No. of load cells per weighbridge	
<b>1.3</b>	Capacity of each load cell (design)	
<b>1.4</b>	Overload on each load cell (without affecting load cell functioning)	
<b>1.5</b>	<b><i>Accuracy</i></b>	
<b>1.5.1</b>	Non linearity % of output	
<b>1.5.2</b>	Hysteresis % of output	
<b>1.5.3</b>	Repeatability % of output	
<b>1.5.4</b>	Creep % of output	
<b>1.5.5</b>	Combined error % of output	
<b>1.6</b>	Temp. limit Degree C.	
<b>1.7</b>	Supply voltage	
<b>1.8</b>	Output voltage	
<b>1.9</b>	Protections provided from dust and water	
<b>1.10</b>	Overall dimensions	
<b>2.</b>	<b><i>Digital data system</i></b>	
<b>2.1</b>	Make	
<b>2.2</b>	Details	
<b>3.</b>	Computer complete with necessary input/output parts, memory, real time clock, monitor, keyboard, processor unit and printer unit. ( <b>Attach details</b> )	
<b>4.</b>	Junction box ( <b>Attach details</b> )	
<b>5.</b>	Cables ( <b>Attach details</b> )	
<b>6.</b>	Layout drawing giving location of various elements with dimensions etc.	
<b>Signature of the authorized representative of the bidder with company stamp</b>		

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