Annexure-A

Rail Tracks

Sr #	Description	Material	Approx. Weight (Kg)
1	**Rail** (Designation No. ASCE 60 lbs/yd or Equivalent), Total Length= 140 meter. (10 meter x 14 nos.) Weight = 29.8 Kg/m	**Std. Dimension** given in attached Sketch at (Annexure-C) **Material specification ASTM A759** / attached Specification No. **HT129-CR001-MS-01/104** (Rev.0) **(Annexure-D)** OR **Equivalent**	**4200** (29.8 Kg/m)

Notes:

1. Rails/ Rail tracks to be quoted shall be brand new / unused.
2. Please submit brief specifications/ manufacturer's relevant catalogue or a certificate (as mentioned at point no. 2 of attached Annex "B" /check list), while quoting for equivalent rails.
3. Please submit check list **(Annexure-B)** along with your quotation, after encircling either "Yes" or "No"

*** Equivalent / Equivalency means Rails having matching / nearest specifications and dimensions can also be quoted.**

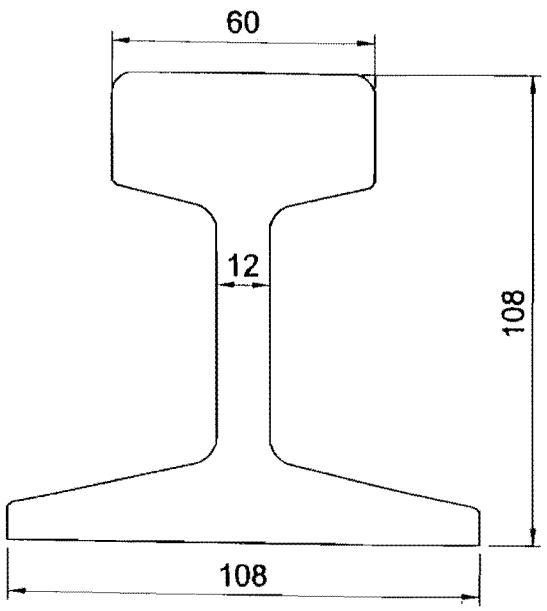
ANNEXURE-B

Check List

1-	Manufacturer's name / Brand of Rails has been mentioned in quotation.	Yes	No
2-	In case manufacturer name / brand is not available, a certificate regarding compliance to required specifications will be provided and supplied rails will be replaced if rejected during verification/testing.	Yes	No
3-	Marking on the Rails shall be as per Specification / Brand and should match with MTC/Catalogue.	Yes	No
4-	Mill Test Certificate (MTC) or Manufacturer's catalogue/certificate as per attached Specification will be supplied with Rails.	Yes	No
5-	The quoted Rails will be brand new, uniform in quality, straight and free of defects.	Yes	No
6-	Rates to be quoted per Kg.	Yes	No

Note:

Please submit this checklist along with your quotation, after encircling either "Yes" or "No"



RAIL, 60 lb/yd

ANNEXURE-D

Material Specification	No. **HT129-CR001-MS-01/ 104** Date: 02-04-2015 Rev. No0 Page 1 of 1

Product : Carbon steel crane rails

Material : ASTM A759

Technical Requirement : The material shall be supplied in accordance with standard specification of ASTM A759 and following general requirements.

1. Chemical Composition : As per Table below

Carbon, %	**Mn, %**	**P, max %**	**S, max %**	**Si %**
0.67 ~ 0.84	0.70 ~ 1.10	0.04	0.05	0.10 ~ 0.50

2. Mechanical Properties: As per Table below

Grade	**Brinell Hardness**	**Tensile strength (approx)**
Standard	Typical min. 260*	min. 127 ksi

* ASTM A759 does not indicate a minimum Brinell hardness

3. Mill Test Reports:
   i) Mechanical test report for each lot of material.
   ii) Chemical analysis report for each lot of material from a specific heat.
4. Manufacturer's certificate, certifying that the material has been made to the requirements as mentioned above and as given in the relevant sections of ASTM standard, shall be submitted.
5. All certificates shall be in English and shall indicate the reference # of this technical specification.
6. Quality: The material shall be uniform in quality and temper, smooth, commercially straight and free of injurious imperfections.