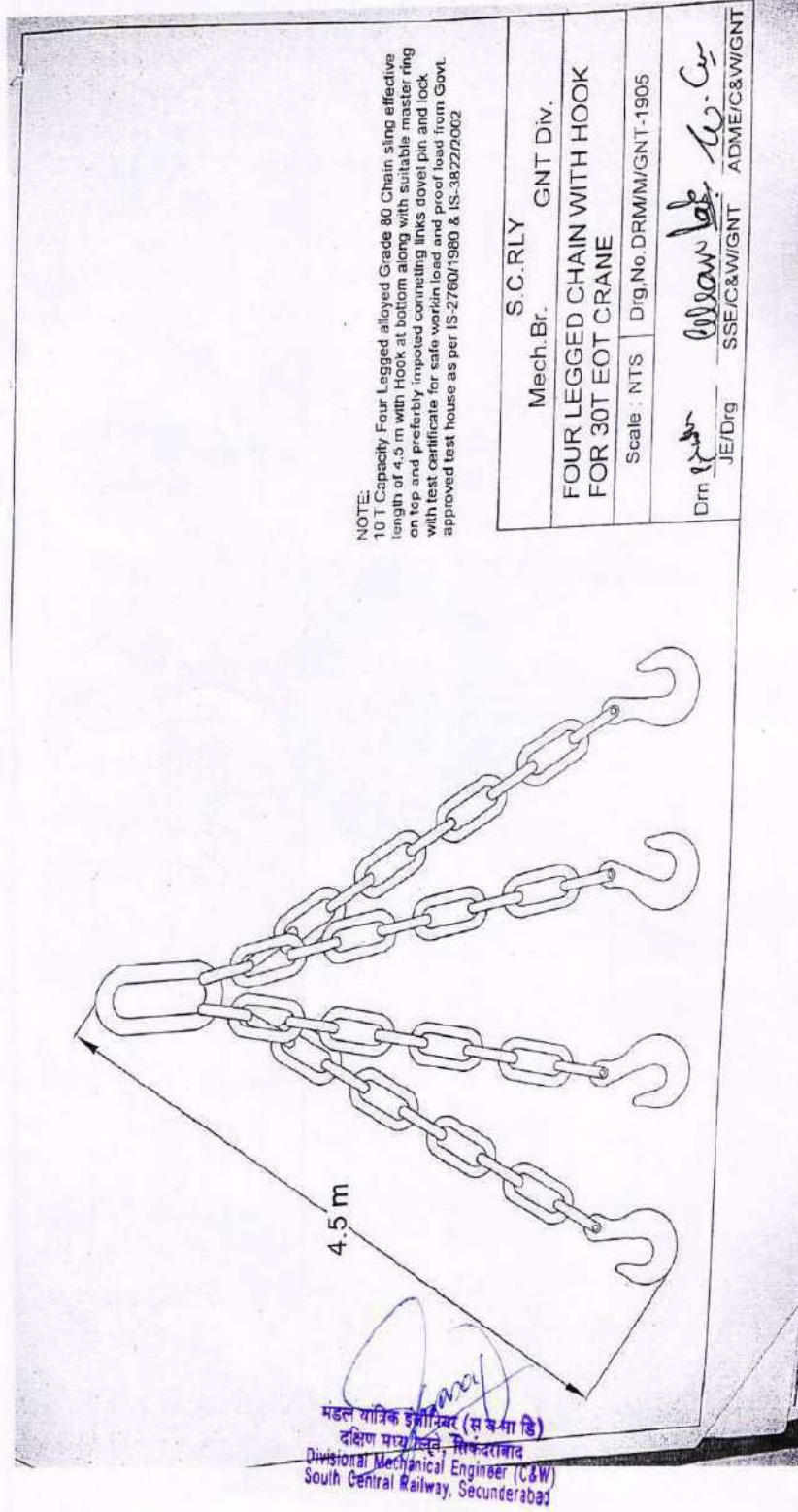
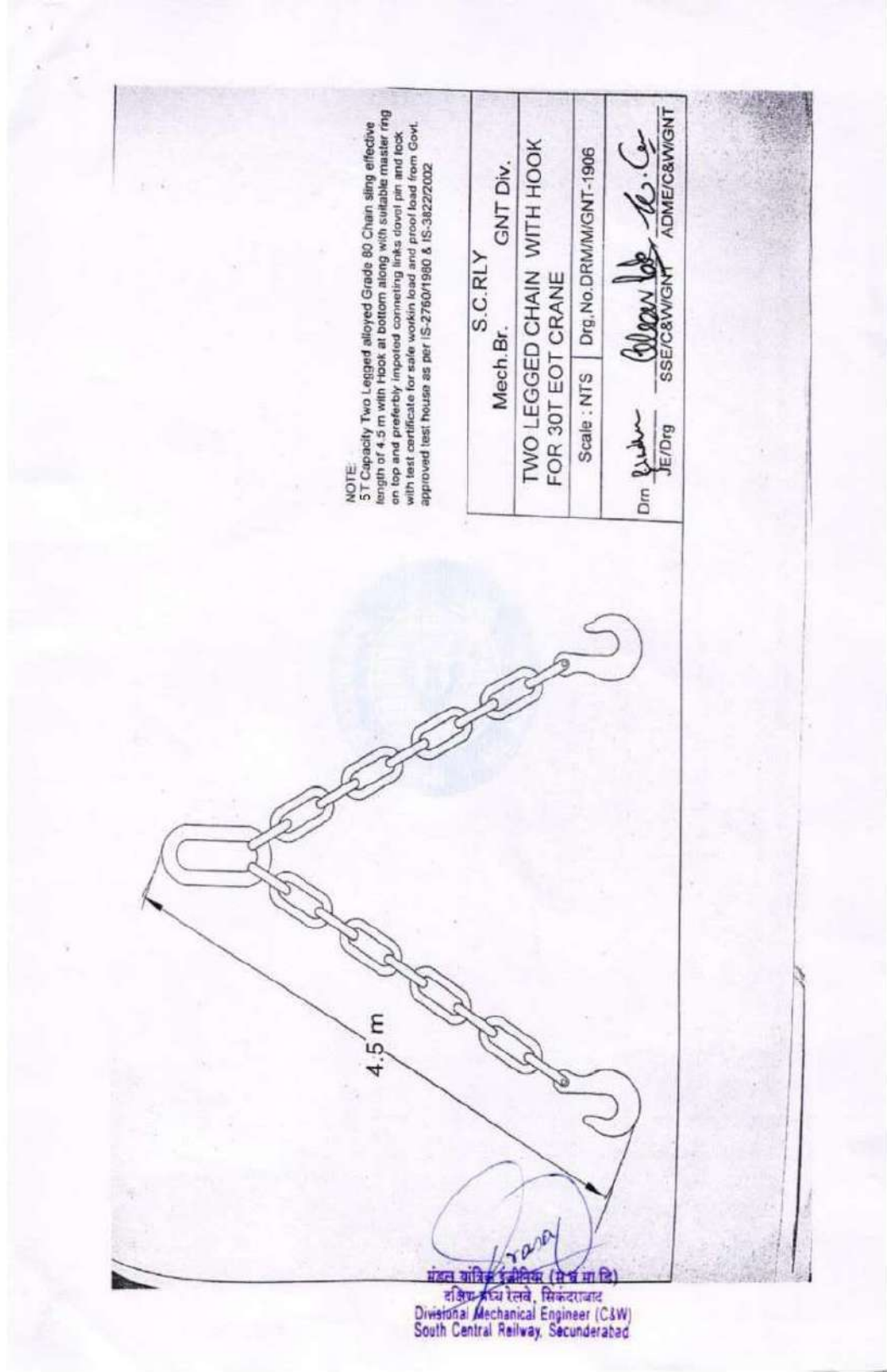


Four Legged Chain with Hook for 30T EOT craneAnnexure-5

Two legged Chain with hook for 30T EOT crane

Annexure-6



**SCHEDULE - II**  
(See clause 1.1.6 of section-II)

**(In respect of items 10, 14, 20.3, 20.6, 20.9, 21.2 & 21.6 of Schedule-II, non-submission of information / incomplete information / deviation in the offer is not acceptable. No clarifications / correspondence will be sought / entertained in this regard and the offer shall be summarily rejected.)**

**INFORMATION TO BE SUPPLIED BY THE TENDERER**

\_\_\_\_\_Tonnes Capacity      \_\_\_\_\_operated      EOT\_\_\_\_\_      Crane

S.No.	Description	:	Remarks
1.	Specification of the crane offered (class of duty/capacity in tonnes/span in metres)	:	
2.	Is it the tenderer's intention if awarded the contract, to comply fully and in all respects with purchasers specification covering the work ? if not, he shall state exceptions in details	:	
3.	Time in which tenderers will agree to deliver or complete all work covered by these specns	:	
4.	Break up weights of the crane as mentioned below should be furnished :		
	4.1. Total weight of crane including electrical equipment.	:	
	4.2. Total weight of trolley, including electrical equipment.	:	
	4.3 Weight of each bridge girder assembled and ready for erection with and without mech. and electrical equipment.	:	
	4.4 Weight of each end carriage assembled and ready for erection.	:	
	4.5 Weight of operator's cabin together with all equipments mounted in it.	:	
5.	Type and class of crane and its mechanism	:	
6.	Safe working load in tonnes		
	6.1 Main hoist	:	
	6.2 Aux. hoist	:	
7.	Maximum speed with max. workload (MPM)		
	7.1 Main hoist	:	
	7.2 Aux. hoist	:	

- 7.3 Creep Speed of main hoist :
- 7.4 Long travel :
- 7.5 Cross traverse :
- 8. Speed steps and speed range in meter/min. at various steps. The remarks offered should be in accordance with single girder or double girder crane.
  - 8.1 Hoist Motion :
  - 8.2 Cross traverse :
  - 8.3 Long Travel :
- 9. Rope size and construction details (MH/AH) :
- 10. Number of rope falls supporting the load (MH/AH):
- 11. Diameter of drum (MH/AH) :
- 12. Material of drum :
- 13. Material of gear box :
- 14. Material and Hardness of gears (Indicate specifications) :
- 15. Material of sheaves :
- 16. Diameter of sheaves (MH/AH) :
- 17. Brakes, type make and size (MH/AH) :
- 18. Make and type of bearings :
- 19. Type of hook and its specification. :
- 20. Trolley
  - 20.1 Wheel span :
  - 20.2 Wheel base :
  - 20.3 C.T. Wheel Diameter, material and hardness:
  - 20.4 Maximum wheel load :
  - 20.5 Material of gear box :
  - 20.6 Material and hardness of gears (indicate specifications) :
  - 20.7 Make, type and size of brake :
  - 20.8 Make and type of bearings :
  - 20.9 Size of trolley runway rail (DG) :
  - 20.10 Bidder shall furnish Current Rating & Material of DSL : being offered. (i.e. M S, G.I. or Copper)
- 21. Bridge
  - 21.1 Wheel base :
  - 21.2 L. T. wheel Diameter, material and hardness:
  - 21.3 No. of wheels on each end of crane :
  - 21.4 Maximum wheel load :
  - 21.5 Material of gear box :

- 21.6 Material and hardness of gears. :  
(Indicate specifications)
- 21.7 Make, type and size of brakes :
- 21.8 Make and type of bearings.:
- 21.9 Clear width of each foot walk.(DG) :
22. STRUCTURAL Details  
(Refer sketch NO. COFMOW/IR/EOTC/X/Y/Z/86)
- 22.1 Centre to center of gantry/track :  
rail span (S) meters
- 22.2 Lift of Hook above floor level :  
(Exclusive of travel required to  
operate limit switch)
- 22.3 Drop of Hook below floor level :
- 22.4 Nearest position of hook to center  
line of gantry rail
- i. Main hoist
- cabin end (E) meters :
- other end (F) meters :
- ii. Auxiliary Hoist
- cabin end (E) meters :
- other end (F) meters :
- 22.5 Type of main girder Design drawings :  
showing overall dimensions, Size of  
each section and location and depth of  
diaphragms should be submitted for the girders.
23. Particulars of safety devices :
24. General arrangement drawing showing  
to scale elevation, cross section and  
plan which shall indicate the following information:
- a) Clearance diagram of crane :
- b) Construction of bridge structure
- c) Hook approaches.
- d) Wheel base
- e) Wheel loads
- f) Wheel diameter
- g) Outer buffer dimension
- Drawing should be offered along with the offer  
Drawing No. should be indicated.
25. Detailed wheel diameter calculation for :  
long travel and cross traverse wheels

26. Other information offered along with the tender.

- Note: 1. If above clauses are found inadequate for furnishing all necessary information of the crane offer, the tenderer may append further information separately.
2. Bidders should furnish information on Schedule-II & Schedule-III. In case of any discrepancy in the information submitted against Schedule-II and III and that furnished in clause wise comments, the information submitted against schedule-II & III shall over-ride that against the clauses.



**SCHEDULE -III**  
**(Refer to Clause 1.1.6 of Section II)**

**ELECTRICAL DETAILS OF CRANES**

The under mentioned electrical details should be furnished for each motor separate along with the offer. The particulars indicated below should be offered for each motor/control separately.

**1. MOTORS :**

- |   |   |
|---|---|
| 1.1 Manufacturer's Name                   | : |
| 1.2 Type and degree of enclosure          | : |
| 1.3 Type of duty                          | : |
| 1.4 Rating-continuous/intermittent        | : |
| 1.5 Output (KW/BHP)                       | : |
| 1.6 AC Voltage across phases & frequency  | : |
| 1.7 Speeds in RPM                         | : |
| 1.8 Class of Insulation of stator         | : |
| 1.9 Class of Insulation of rotar          | : |
| 1.10 Frame size                           | : |
| 1.11 Normal full load current             | : |
| 1.12 Starting current                     | : |
| 1.13 Motor type                           | : |
| 1.14 Temperature rise of windings & other | : |
- parts allowed above ambient temp. of 50 deg.C.
- |   |   |
|---|---|
| 1.15 Cyclic duration factor                             | : |
| 1.16 Max. starts per hour for which motor is suitable : |   |
| 1.17 Class of duty (S1,S2,S3,S4 Etc.)                   | : |
| 1.18 Ambient temp. for which motor is suitable :        |   |
| 1.19 Voltage range for which motor is suitable :        |   |
| 1.20 Motor horse power calculations                     | : |
| 1.21 Efficiency at                                      |   |
| a) full load  | : |
| b) 3/4 load   | : |
| c) 1/2 load   | : |
| 1.22 Power Factor at                                    |   |
| a) full load  | : |
| b) 3/4 load   | : |
| c) 1/2 load   | : |
| 1.23 Type of drive                                      | : |
| (Direct gear etc.)                                      |   |



**2. CONTROL GEAR**

- 2.1 Rating of AC 4 / AC-3 Contactors suitably derated for AC-4 with minimum 2,00,000 cycles of operation.
- 2.2 Are the following provided for each motor.
  - 2.2.1 Short circuits protection by HRC fuses.
  - 2.2.2 No volt trip
  - 2.2.3 Overload trip
  - 2.2.4 Instantaneous trip current sensitive single phasing preventor.
- 3. Standard specifications to which the motor control gear and its ancilliary offered conform to
- 4. Any other special feature

**SCHEDULE – IV****SPARES FOR CRANE**

S. No	Description of items	Qty for 02 No. of Cranes.				Total quanti ty to be indicat ed by the bidder	Remar ks
1	Fixed & moving contact tips for contactors	4 sets					
		Unit	No of units	No of contact tips per each unit	Total In a set		
		Motor electric contactors (MH,AH,CT, LT)	4	1	4 nos.		
		Lights set	1	1	1 no.		
		Total			5 nos.		
		Hence, minimum 20 nos. to be supplied					