

**(Schedule of Erection Tools & Plant and Safety Equipment's & Safety Personal Protective Equipment's)**

**I. ERECTION TOOLS & EQUIPMENTS**

We indicate herein below the erection tools & plant we have in our possession and the equipment we propose to bring to the Site, in case the contract is awarded to us.

Sl. No.	Type and Description of the Equipment	Number the Bidder has in Possession	Number the Bidder proposes to bring to the site
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

We hereby confirm that the quantity and type of Certain tools and equipment, we will employ for construction/erection, will not be less than those listed above and agree to bring more equipment, if so warranted, in the opinion of the Project Manager. Our proposed construction/erection equipment utilization plan indicating utilization dates and time duration of all major erection and construction equipment placed on site is enclosed at Annexure..... to this attachment.

**Note : Continuation sheets of like size and format may be used as per Bidder's requirement and shall be annexed to this Attachment.**

**II. Safety Equipment's & Safety Personal Protective Equipment's**

The list of minimum suggestive **Safety Equipment's & Safety Personal Protective Equipment's** we propose to bring to the Site, in case the contract is awarded to us is indicated below:

Sl. No.	Minimum Suggested List of Safety Equipment's and Safety Personal Protective Equipment's	Minimum Quantity#
1.	Safety Net (conforming IS 11057 : 1984  Net Size : 10m x 5m, Mesh Size: 25 mm, Mesh Rope: 2 mm double cord, Boiler/Tie Cord: 12 mm diameter polypropylene rope (tested as per IS: 5175). Two meters length shall be provided at all four corners.	

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2.	<p>Fall Arrestor: 'Rope grab fall arrester' &amp; anchorage line Anchorage Line: 14mm-16mm diameter, three strand twisted Polyamide rope.</p> <p>Rope Grabe fall arrester: Openable &amp; Guided type Fall Arrestor (one flexible line) conforming EN 353-2 &amp; works on 14-16 mm diameter Polyamide rope, material: Nickel Chrome plated Steel</p> <p>Connector: Karbiner conforming to EN 362 (Minimum Strength 22 kN), material: Steel</p>	
3.	<p>Horizontal life line Stainless Steel Wire rope of 8 mm diameter. Minimum six nos. of steel U-bolt clips are required for clamping each wire rope to a rigid support (03 nos. of U-bolt clips at both end).</p>	
4.	<p>Ladders on column The minimum design live load on metallic ladder shall be a single concentrated load of 100 kilo grams. All rungs shall have a minimum diameter of 1.90 centimetres, and minimum clear length of rungs shall be 40.6 centimetres. The distance between rungs shall not exceed 30.5 centimetres. Each ladder shall have maximum height of 9.0 metre. The ladder shall have proper fastenings for attaching it to a column using positive means such as bolt, weld or other type of fasteners.</p>	
5.	<p>Safety PPEs (Industrial Safety Helmet &amp; Industrial Safety/Electrical Shoes)</p> <p>Industrial Safety Helmet (IS:2995-1984 marked) Industrial Safety/Electrical Shoes (IS: 15298-2002 marked) Full Body Safety Harness (conforming IS: 3521)</p>	

**# Minimum Safety Equipment's and Safety Personal Protective Equipment's shall be deployed to comply the Safety during execution and as per direction of project manager.**

We hereby confirm that the quantity and type of equipment's, we will employ for construction/erection, will not be less than those listed above and agree to bring more equipment, if so warranted, in the opinion of the Project Manager.

**Note:** Continuation sheets of like size and format may be used as per Bidder's requirements and shall be annexed to this Attachment.

Date : (Signature) .....  
Place : (Printed Name) .....  
(Designation) .....  
(Common Seal) .....

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**(List of Commissioning / Start-up Spares)**

Dear Sir,

We indicate herein below the list of Commissioning/ Start-up Spares required for the subject package:

Sl. No.	Item Description	Unit	Quantity

We note that the above list is subject to your approval and we shall ensure the availability of the required quantity of Commissioning spares as approved by you without any additional cost to you before start-up/initial operation.

**Note : Continuation sheets of like size and format to be furnished and shall be annexed to this Attachment.**

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