

ANNEXURE - I**Project Name:-** Health survey of the existing plant structures at IFFCO Paradeep Unit.**Project title:-** Inspection report for Condition Assessment of the existing plant structures of AMMONIA PIPE RACK Structure at AMMONIA PLANT IN OFFSITES & UTILITY At Paradeep, Orissa.**Detail description of member to member observation of a AMMONIA PIPE RACK**

Grid No.	Member	Section size	Length(m)	Distress observed	Observation
AMMONIA PIPE RACK					
A1	Vertical member	ISMB 250		S,P	Light corrosion, scaling, pitting on the member, also in base plate and gusset plate and honey combing & crack on RCC pedestal noted.
B1	Vertical member	ISMB 250		S,P	Light corrosion, scaling, pitting on the member, also in base plate and gusset plate and honey combing & crack on RCC pedestal noted.
A2	Vertical member	ISMB 250		S,P	Light corrosion, scaling, pitting on the member, also in base plate and gusset plate and honey combing & crack on RCC pedestal noted.
B2	Vertical member	ISMB 250		S,P	Light corrosion, scaling, pitting on the member, also in base plate and gusset plate and honey combing & crack on RCC pedestal noted.
A1-A2	Longitudinal member	ISMB 250		S,P	Light corrosion, scaling, pitting on the member.
B1-B2	Longitudinal member	ISMB 250		S,P	Light corrosion, scaling, pitting on the member.
A1-B1	Horizontal member	ISMB 250		S,P	Light corrosion, scaling, pitting on the member.
A2-B2	Horizontal member	ISMB 250		S,P	Light corrosion, scaling, pitting on the member.
A1	Seat and Cleat angle			S,P	Light corrosion, scaling, pitting on the member.
A2	Seat and Cleat angle			S,P	Light corrosion, scaling, pitting on the member.
B1	Seat and Cleat angle			S,P	Light corrosion, scaling, pitting on the member.
B2	Seat and Cleat angle			S,P	Light corrosion, scaling, pitting on the member.
A1,A2-B1,B2	Internal members	ISMB 250		S,P	Light corrosion, scaling, pitting on the member.
AMMONIA PIPE RACK IN BETWEEN TWO AMMONIA TANKS					
A1	Vertical member	ISMB 200		S,P	Corrosion, scaling, pitting on the member, also in base plate and gusset plate and honey combing & crack on RCC pedestal noted.
B1	Vertical member	ISMB 200		S,P	Corrosion, scaling, pitting on the member, also in base plate and gusset plate and honey combing & crack on RCC pedestal noted.
A2	Vertical member	ISMB 200		S,P	Corrosion, scaling, pitting on the member, also in base plate and gusset plate and honey combing & crack on RCC pedestal noted.
B2	Vertical member	ISMB 200		S,P	Corrosion, scaling, pitting on the member, also in base plate and gusset plate and honey combing & crack on RCC pedestal noted.
A1-A2	Longitudinal member	ISMB 200		S,P	Corrosion, scaling, pitting on the steel member.
B1-B2	Longitudinal member	ISMB 200		S,P	Corrosion, scaling, pitting on the steel member.
A1-B1	Horizontal member	ISMB 200		S,P	Corrosion, scaling, pitting on the steel member.
A2-B2	Horizontal member	ISMB 200		S,P	Corrosion, scaling, pitting on the steel member.
A1	Seat and Cleat angle			S,P	Corrosion, scaling, pitting on the steel member.
A2	Seat and Cleat angle			S,P	Corrosion, scaling, pitting on the steel member.
B1	Seat and Cleat angle			S,P	Corrosion, scaling, pitting on the steel member.
B2	Seat and Cleat angle			S,P	Corrosion, scaling, pitting on the steel member.
A1,A2-B1,B2	Internal members	ISMB 200		S,P	Corrosion, scaling, pitting on the steel member.

Legends:-

SC :- Severe Corrosion

MC :- Medium Corrosion

LC :- Light Corrosion

MM:- Member missing NBM:- Nut bolt missing

S:- Scaling P:- Pitting

WJO:- Weld joint open out

NBS:- Nut bolt scaling

DPM:- Dust deposition on member