

ANNEXURE-1- Deliverable list from ESC - DURING PRE-BID ENGINEERING STAGE OF PROJECT					
Sl no	Discipline	Description of Deliverable/Activity.	Mand. Docs Along with BID	Docs Reqd for Costing	Remarks
1	Process	Basis of Design	Y	Y	
2	Process	Process Description	Y	Y	
3	Process	Process Flow Diagram	Y	Y	
4	Process	Utility flow diagram	Y	Y	
5	Process	Material Selection diagram	Y	Y	
6	Process	P&I Diagrams	Y	Y	
7	Process	Utility/Chemical Requirements	Y	Y	
8	Process	Process Specifications of catalysts, chemicals	Y	Y	
9	Process	Instrument Control philosophy	Y	Y	
10	Mechanical	Flare Load Summary	Y	Y	
11	Mechanical	List of special tools	Y	Y	
12	Mechanical	Utility Consumption at Plant Battery Limit	N	Y	
13	Mechanical	Electrical Load List of Electrical Equipment.	N	Y	
14	Mechanical	Civil Input of Mechanical Equipments.	N	Y	Dimension, Foundation details along with Loading on each foundation.
15	Mechanical	Erection Inputs for Mechanical Equipments.	N	Y	Dimension & Weight.
16	Mechanical-Layout	Plot Plan (Preliminary)	N	Y	
17	Mechanical-Layout	Hazardous area Classification Drawing	N	Y	
18	Mechanical-Layout	Equipment Layout with all the Equipment Required for Package	N	Y	
19	Mechanical Piping	Linewise BOQ for Pipes with Specification	N	Y	
20	C&I	Instrument Datasheet for Control Valves, Desuperheater, Safety Valves, Pneumatic on-off valve, trip valves, Silencers, Self Actuating Valves, PSV & Breather Valve, Rupture Disk etc.	N	Y	
21	Pumps	Mechanical Datasheet for Pumps (Centrifugal, Reciprocating etc)	N	Y	
22	Columns, Reactors	Mechanical Data Sheet (MDS) along with BOQ	N	Y	
23	Columns, Reactors	PROCESS DATASHEET SHEET(PDS) ALONG WITH BOQ	N	Y	
24	Columns, Vessels	Mechanical Data Sheet (MDS) along with BOQ	N	Y	
25	Columns, Vessels	PROCESS DATASHEET SHEET(PDS) ALONG WITH BOQ	N	Y	
26	Heat Exchangers	PROCESS DATASHEET SHEET(PDS) ALONG WITH BOQ	N	Y	
27	Heat Exchangers	Mechanical Data Sheet (MDS) along with BOQ	N	Y	
28	Tanks	Mechanical Data Sheet (MDS) along with BOQ	N	Y	
29	Air blower / Compressor	Mechanical Datasheet for Air blower/compressor (Centrifugal Air blower, Reciprocating compressor etc)	N	Y	
