ADITYA BIRLA NOVO	Kaizen Details					
<b><u>Theme</u> : Enhancement in Reliability of HP Ammonia Feed Pump by Improving Stuffing box Sealing / Cooling.</b>						
<b>Start Date : 16/8/08</b> Finish Date : 25/5/09						
Impact on Category :						
1.Process	2.Customer	3.Environment				
4.Tangible	5.Intangible					











Why-Why Analysis				
Why	Why Answer Action Taken			
Frequent Packing	High Ammonia in	Packing tightening		
Tightening	seal water			
Why High Ammonia	Due to fast wear	Stuffing box		
in seal water	of packing	replacement		
Why fast wear	Due to high			
of packing	friction between			
	Packing & Plunger			
Why high friction	1) Less supply of	1) Increased seal		
between Packing &	seal water	water supply		
Plunger.	2) Hot seal water	2) Changed to Cold		
(Overloading at SB)	supply	seal water supply		
	3) High Pump RPM	3) Operating both pump		
	At 112	at shared RPM instead		
		of single pump at high		
		RPM in both unit		

	Schedule-PDCA								
ł	Ш	SN	ACTIVITY	RESPONSI		PRO	JECT	SCHEDU	t:E
				BILIT		Aug' 08	Sept' 08	Oct- Dec'08	Jan- May' 09
		1	Develop Scheme	SD/SPS	P				
		2	Get the details & data collection	PCP/KP/NJV	P A				
		3	Evaluate possible alternative & solution by FMEA	SD/SPS/NJV	P A				
		4	Procurement of materials	SD/SPS	P				
	D	5	Implementation of piping scheme	SPS/PCP/KP	P				
		6	Arrange for suitable seal water source	SD/SPS	P				
		7	Implementation of new seal water supply	SD/SPS	A				
		8	Running both pump in place of single	PRODUCTIO N	P				
	C	9	Monitor pump performance parameter	NJV/KPI	P				
	A	10	Evaluation of performance data	SD/SPS	P				
		10			А				













Action Taken , Benefits & Impact						
Action Taken	Benefits	Impact				
1) Improved	1)Reduced maint.	Tangible				
supply sealing	2)Reduced amm loss	Envirment				
water	3)Reduced load fluct.	Process				
2) Provided view	1)Better operability	Customer				
for seal water						
temp & lube oil Pr						
3) Operated both	1)Uniform plant load	Process				
pumps on shared	2)Prod. Enhanced	Tangible				
RPM	3)Reduced vibration	Tangible				
	1)Better operability	Customer				





