

## 10000237 KIRAN PETKAR

Employee Name : KIRAN PETKAR Manager's Name : Prashant Pathak

Goalsheet Approval Date : 23-Apr-2017

KRA Category : Business

KRA Weightage : 20 \_

Key Performance Indicator (KPI) description	Unit	KPI Weightage	Value	(1) Unsatisfactory Performance	(2) Needs Improvement	(3) Good Solid Performance	(4) Superior Performance	(5) Outstanding Performance	Actual achievement of year end	Appraisee comment on actual achievement
1. Support for commissioning & modification of H2 Loop reactor Batch automation for increase in batch/Production & it's commissioning activity	Text			Mar_16	Mid March	Feb_17	Mid Feb	Jan_17	01-01-2017	1) 1 no pressure transmitter & 8 nos Control valve are removed for servicing same logic implementation & DCS configuration done at site for catalyst project of Loop reactor dated on 1 oct 2016 2) better efficiency and operation Opportunity base PM & CM of loop reactor completed on 26 sep -2016 & on 23 feb -2017 3) instrument availability done by using Regular calibration ,servicing & spare inventory of XV-305,XV-306,XV-311, oop Hydrogen service valves-PC V-302A,PCV-701B V .This help to reduce repetitive failure almost zero. 4) New LT-302 provided for V-707
2.H2 Linde Tail Gas line new control valve installation & commissioning activity.	Text			Mar_16	Mid March	Feb_17	Mid Feb	Jan_17	Control valve blank datasheet mail to user Dept for filling the process parameter in November'2016.	Existing PRV venting during normal operation, so this PRV to be replaced with control valve, for selecting the control valve process parameter mail to user Dept.
3.H2 Caloric Natural gas line FT installation & commissioning activity.	Text			Jan_16	Mid Jan	Dec_16	Mid Dec	Nov_16	H2 Caloric Natural gas line FT installation & commissioning carried out in August'2016.	Natural gas line existing mass flow meter failed & this cost is approx. 12 lakh, so on same location multivariable type orifice flow transmitter installed having costing is approx. 2.5 lakh. It's commissioning done & checked performance found working okay.
4. Support to other departments for commissioning & modification of : a.To achieve energy saving. b. Commissioning Supports for projects Beads c.Fatty Acid Pre-heater thermowell & RTD sensor location to be relocated. d.GDP Plant Thermic fluid line FT relocation & installation. e.TT point added in supply/return line & it's cabling work. f.CPP Vam Control valve installation & it's loop checking.	Text			Mar_16	Mid March	Feb_17	Mid Feb	Jan_17	100% complete==Support & logic implementation for the Improvement plants/projects in given time frame by December'2016 end.	1)Fatty Acid headload calculation, 2)Fatty Acid Pre-heater thermowell & RTD sensor location purpose new thermowell/RTD procurement done in Dec'2016 & waiting for shutdown opportunity. 3)GDP Plant Thermic fluid line FT relocation drawing submitted to concern Dept
5.Prepare the report for monitoring of abnormalities in plant for enhancing the process.	Text			-	-	Every week report prepared & action taken on abnormality	-	Before 30 th	Report prepared before 30th of every month	Daily routine plant round abnormality are observed & as per availability of material/resources corrective action taken.. 1) Improve operation & life of instrument-250

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										no's canopy provided to instrument which was badly affecting acidic water of cooling tower 2) Safety & reliability -30 nos corrosive stand & instrument support replaced & modified which give operation safety and reliability to maintenance people 3) DCS panel -A) PMMC DCS room panel door hinges replaced with spare one dated on 2 Jan 2017. B) panel light ,fan of K4 panel operation checked on 5 Nov 2016 4) To improve steam consumption - A) DFA-C-401 header & SM30/50 boiler PRV (MAKE- Spirax) Marshall ) servicing done dated on 11 Feb-2017.

**KRA Category : Process**  
**KRA Weightage : 20 \_**

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1.To plan & complete the servicing of below listed plant valve's for better operation & performance 1)Hydrogen caloric PSA valve.2)H2 Linde PSA Valve,3)Nitrogen Plant PSA valve 4)Natural Gas Skid 5)H2 Loop Reactor valve	Text			.	.	95% complete	.	100% complete	100% complete	100 % Completed as per schedule & clearance.As per Instrument shutdwn Job list clearance maintenance job carried out & it's working satisfactory after maintenance.Also assurance given for the functioning of serviced instruments:1)Hydrogen caloric PSA valve:Hydrogen Caloric Plant PSA valve servicing carried out every 1.5 years for avoiding the downtime/failure.Last time servicing carried out in February/2016.2)H 2 Linde PSA Valve:Hydrogen Linde Plant PSA valve servicing carried out every 1.5 years for avoiding the downtime/failure.Last time servicing carried out in May' 2016.3)Nitrogen Plant PSA valve :Nitrogen plant PSA valve servicing carried out every 1.0 years for avoiding the downtime/failure. Also al 9 no's Actuator servicing carried out.Last servicing done in N

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										November 2016. 4) Natural Gas Skid: 2 Bar & 4 Bar==Both Skid servicing & overhauling carried out in October 2016. 5) H2 Loop Reactor valve: Control valve PCV-302A/PCV-70 1BV.XV-311.XV-306.XV-306B servicing & overhauling carried
2. To ensure the Safety reliability in Plants by checking the thermowells of Fatty Acid Columns & Hydrogen Reformer. (Qty: 90 no's)	Text			20 thermowell	25 thermowell	30 thermowell inspection.	35 thermowell	40 thermowell	60 no's Thermowell inspection done against target of 40 no's	Fatty Acid Plant distillation section 40 no's & Splitting section 12 no's thermowell inspection/checking carried out. Hydrogen calorific & H2 Linde Plant 8 no's thermowell inspection/checking carried out
3. Coal heater A & B—Bed temperature thermowell to be replaced with better MOC Thermowell for long life. (Qty: 8 no's)	Text			1 no's Thermowell	3 no's Thermowell	5 no's Thermowell	6 no's Thermowell	8 no's Thermowell	All 8 no's thermowell completed	All 8 no's thermowell inspection carried out & out of this 4 no's Thermowell replaced with new better MOC thermowell in October 2016.
4. Non working instrument loops made okay. 1) C-303: FT-R351A 2) SPD-FT-50519A 3) C-402: FT-4305 4) Fatty Alcohol FT-1003 5) Fatty Acid XV-9504 6) Column attached TT.	Text			.	1 instrument out of 8 non working instruments : before March 2017.	2 instrument out of 8 non working instruments : 25% complete before March 2017.	4 instrument out of 8 non working instruments : 50% complete before March 2017.	6 instrument out of 8 non working instruments : 75% complete before March 2017.	All 6 no's instrument made okay & it's working satisfactory.	1) C-303: FT-R351A & FT-R351B are integral mounting. Due to high temperature flowmeter electronics gets hot & chances of failure of electronics & sensor, also malfunctioning of instrument. This both transmitter convert integral to remote dated on 26 Oct 2016. Now they working okay. 2) SPD-FT-50519A showing wrong indication & also chance of sensor failure .they convert integral to remote dated on 13 July 2016 3) C-402 FT-4305 -vortex shedding frequency changed & configuration done ,now working okay. 4) Fatty Alcohol FT-1003 New high temp sensor replaced with spare on dated on 16 Nov 2016-Now working okay.
5. Planning for the shutdown jobs by preparing the list, procuring the material and service required	Text			.	.	100% complete within define timelimit	.	.	100% complete	List of completed vs pending jobs prepared a month before the shutdown. shutdown activities finished 2 days before scheduled target

KRA Category : People  
KRA Weightage : 20

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1. To meet IDP completion on problem solving Techniques	Text			.	.	Mar'17	.	.	100% complete	Problem solving Technique attended in year 2016 & same implemented in routine maintenance activity.
2. Class room training on DCS programming.	Text			.	.	Dec'16	.	.	Completed in November'2016	DCS advanced training for Yokogawa and Invensys attended while on the job for shutdown activities. In Aug 2016, November'2016. Also while performing AMC activities with OEM engineers learnt advance functions in DCS on quarterly basis.
3. To cover all the people of Department for personal & plant safety training programme.	Text			.	.	100% complete	.	.	100% complete	1) In 2016-2017 Covered 100% people of instrument department related to PPEs ,personal safety ,Permit system,industrial safety & emergency preparedness , First Aid refresher training, 2) Safety awareness training to new joiners, GET about instruments working related safety, toolbox talk to contract employees etc. = 5 Apprentice + New Own instruments 6+ working persons.
4.New SOP generation for excellence path.	Text			Nil	1 New SOPs	2 New SOPs	3 New SOPs	5 New SOPs	8 New SOPs prepared.	8 new SOP/Calibration Procedure are prepared.

**KRA Category : Business**

**KRA Weightage : 40 \_**

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1)Maintenance of :CM-- Preparing calibration reports for Critical Instruments 2) Remaining Instruments-- Preparing PM format & PM checklist 3)History card updation	Text			<90% for all functions	90% for all functions	1)95% completion of CM total: 242 nos. 2)PM of Remaining 384 nos Instruments 3) Not pending more than a week after completion of job	94% for all functions	95% for all functions	1)100% completion of CM total: 242 nos. Preparing report before 5th of each month. 2)PM of Remaining Instruments:384nos. Preparing report before 3rd of every month.	100% completed of Fatty Acid distillation section 1) PM of 384 nos instrument & CM of 242 nos instrument completed as per schedule 2)Same above tag Calibration report ,history card , breakdown analysis , PM& CM check list Prepared 3)Predictive maintenance done for reliability & operation confidence A) Column bottom control valve LCV-3201/LCV-3401/LC V-103/LCV-4301/2 2LCV-40/LCV-C303B servicing & overhauling carried out as per schedule, b)Column attached thermowell inspection carried

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"2.Reduction in downtime(Last year-140 hrs,Target-126 hrs) "	Text			Increase by 10%	No reduction	Reduction by 2%	Reduction by 5% in all plant areas.	Reduction by 7% in all plant areas.	Last year 2015-2016 ,Down time in Distillation section is 25.00 hrs & this Year 2016-2017 is 9.00 hrs ,nearly 64% improvement	out as per clearance 1) Last year 2015-2016 ,Down time in Distillation section is 25,00 hrs & this Year 2016-2017 is 9.00 hrs ,nearly 64% improvement 2) This happen due to proper service, predictive maintenance, preventive maintenance of column bottom control valve & other instruments.3)Also shutdown opportunity maintenance carried out.4)Plant displacer type Level transmitter & control valve expose to water falling that covered with canopy for enhancing the life of instruments & avoiding the failure.
3.MTBF - a)Bottom level control valve of C301-C302-C303 b)Temperature transmitter of local make, RTDs .	Text			Minimum 5 % improvement.	Minimum 10% improvement.	Minimum 20% improvement. a)Bottom level control valve of C301_302_303_Last Year failure _5 times Target: 4 times b)Other Instruments_ Last Year failure 10 times Target: 8 times	Minimum 25% improvement.	Minimum 30% improvement.	80 % improvement. a)Bottom level control valve of C301-302-303-Last Year failure -5 times,This year failure:1 times. b)Other Instruments- Last Year failure 10 times,This year failure:7 times	80 % improvement. a) Bottom level control valve of C301-302-303-Last Year failure -5 times, This year failure:1 times. (C-302 bottom Control LCV-3401 -1 time failure happen, so this valve servicing & overhauling carried out. Also all column bottom control valve 1 valve made ready in workshop as a critical spares in case of emergency. b) Other Instruments-Last Year failure 10 times, This year failure:7 times(Temperature transmitter failure & 2 no's displacer level transmitter failure)
4.Failure Analysis reports	Text			Pending for more than 12 days after failure occurrence.	Pending for more than 7 days after failure occurrence.	Not Pending for more than 5 days after failure occurrence.	Not Pending for more than 4 days after failure occurrence.	Not Pending for more than 3 days after failure occurrence.	100% complete within 2 days of breakdown.	Failure analysis report prepared within 2 days after breakdown,also analysis done for avoiding the repeatative breakdown.