

### GAIL(India)LIMITED

### Welcomes

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#### PATA PETROCHEMICAL COMPLEX

# ANALYST PRESENTATION FY 2016-17

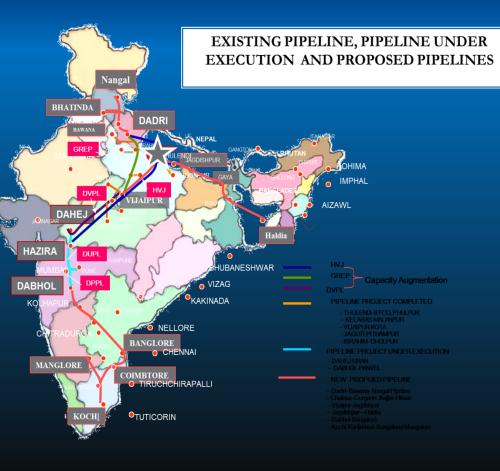


### GAIL, PATA -LOCATION



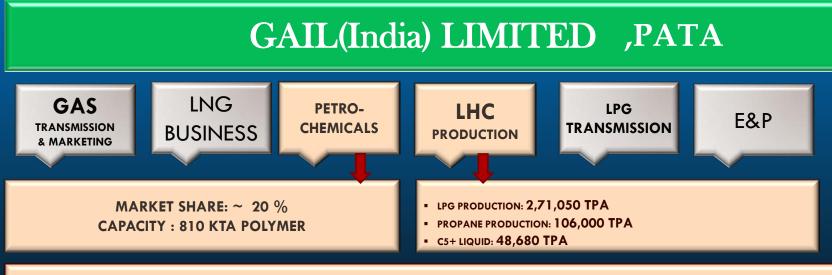
- In the district of Auraiya of Eastern UP.
- 110 Kms from Kanpur and ~400 Kms from N. Delhi.
- □ ~23 Kms from NH-2
- Delhi-Howrah railway line runs parallel.
- Nearest natural resource: Sengar River.
- Water Supply: Upper Ganga Canal







# PORTFOLIO



# GAIL, PATA IS THE FIRST AND ONLY GAS BASED, LANDLOCKED PETROCHEMICAL COMPLEX IN INDIA.







## **PROJECT IMPLEMENTATION**

-A peek into the past

## GAIL, PATA -YESTERDAY



### LAND ACQUISITION

- □ Plant area: 590 Ha.
- **D** Township area: 150 Ha.
- No of affected villages :
- **D** Plant area: 05 nos.
- **D** Township area: 03 nos.
- No of displaced persons:
   ~1170 nos.

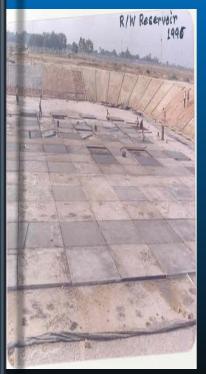
### FOUNDATION



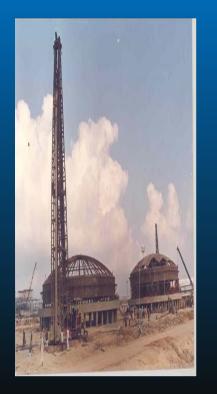
Foundation stone by hon. Former PM(India) Late Sh Rajiv Gandhi On 16 September 1989



## **CONSTRUCTION PHASE**









## **CONSTRUCTION PHASE**



### Today's glory is past's reflection









DEDICATION OF GAIL PATA TO THE NATION BY HON'BLE PRIME MINISTER, SHRI A B VAJPAYEE ON 10 JUNE 1999,



## **PROJECT IMPLEMENTATION**

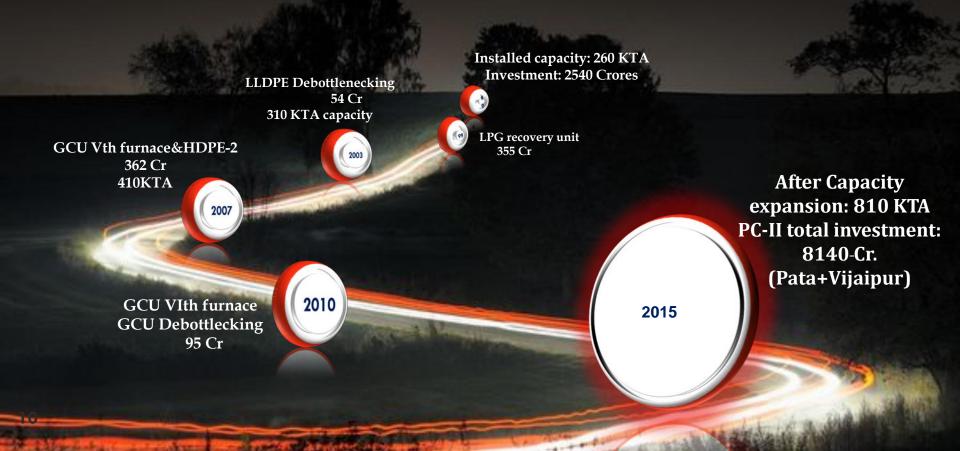


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DEDICATION OF LPG PLANT TO THE NATION BY FORMER CM(UP), SHRI RAJNATH SINGH ON 20 JUNE 2001.

### GAIL-PATA: JOURNEY





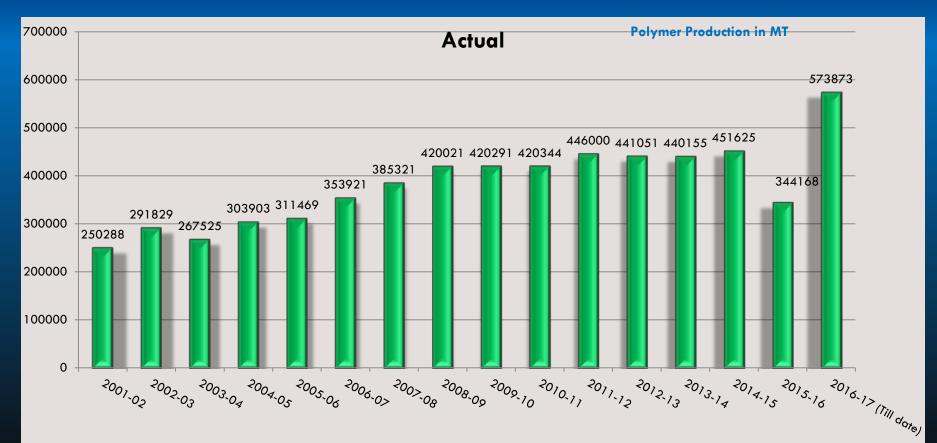
# PRODUCTION CAPACITY OF VARIOUS UNITS OF PATA PLANT BEFORE EXPANSION

	Unit	Capacity	Licensor
C2-C3 (GPU)	MT	562800	EIL
Ethylene (GCU)	MT	446000	Technip (Stone & Webster)
HDPE-1	MT	100000	MITSUI, JAPAN
HDPE-2	MT	100000	MITSUI, JAPAN
LLDPE	MT	210000	NOVA CHEM
Butene-1	MT	10000	AXENS

## COMBINED PRODUCTION CAPACITY OF VARIOUS UNITS OF PATA PLANT AFTER EXPANSION

	Unit	Capacity	Licensor
C2-C3 (GPU)	MT	1312590	EIL
Ethylene (GCU-1)	MT	446000	Technip (Stone & Webster)
Ethylene (GCU-2)	MT	450000	Technip (Stone & Webster)
HDPE-1	MT	100000	MITSUI, JAPAN
HDPE-2	MT	100000	MITSUI, JAPAN
LLDPE-1	MT	210000	NOVA CHEM
LLDPE-2	MT	400000	UNIVATION
Butene-1	MT	10000	AXENS
New Butene-1	MT	20000	AXENS

# PLANT PERFORMANCE-POLYMER PRODUCTION



# **Polymer Production Plan**

FY	Target (MT)
2016-17	610000
2017-18	730000
2018-19	810000



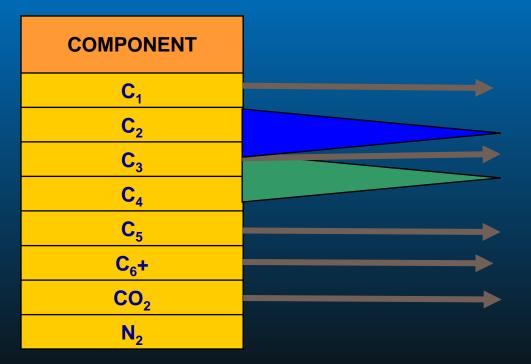
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## GAIL, PATA-TODAY

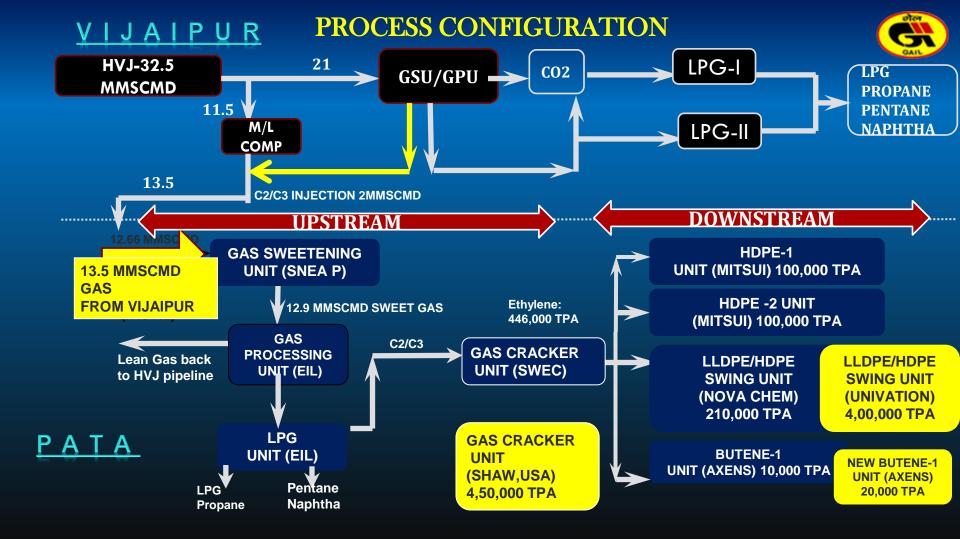
an icon for petrochemicals

## **FRACTIONS TAKEN OUT AT PATA**



Lean Gas to HVJ Pipeline C<sub>2</sub>/C<sub>3</sub> to GCU Propane LPG

Pentane Naphtha Removed in GSU



## **MIDSTREAM UNIT**



#### **IOP&S**

□ RAW WATER TREATMENT

#### PLANT

- **DM WATER PLANT**
- **CW TREATMENT PLANT**

□ FLARE SYSTEM

PLANT

- **POWER PLANT**

**NITROGEN & CAP** 

WASTE WATER TREATMENT

- □ ATMOSPHERIC TANKS DOUBLE WALL ETHYLENE
  - **TANKS**

MOUNDED BULLETS

□ MOUNDED PIPELINES

□ PRESSURIZED BULLETS

□ HORTON SPHERES

**STORAGE VESSELS** 

- □ BUTENE-1

**C4 MIX-2** 

**PROPANE-2** 

□ PENTANE-1

□ LPG-8

- □ MFO/NAPHTHA-1
- **PROPYLENE-1**

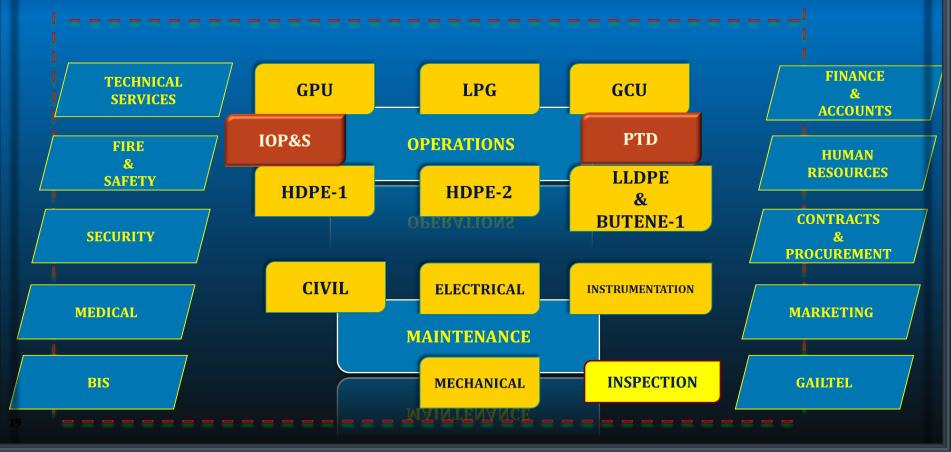


LOADING GANTRIES(16)

### GAIL(India)LIMITED



#### ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 Certified



## **OUR POLYETHYLENE BRANDS**











### **11 ZONAL OFFICES**

**35 CONSIGNMENTSTOCKISTS** 

**44 WAREHOUSES** 

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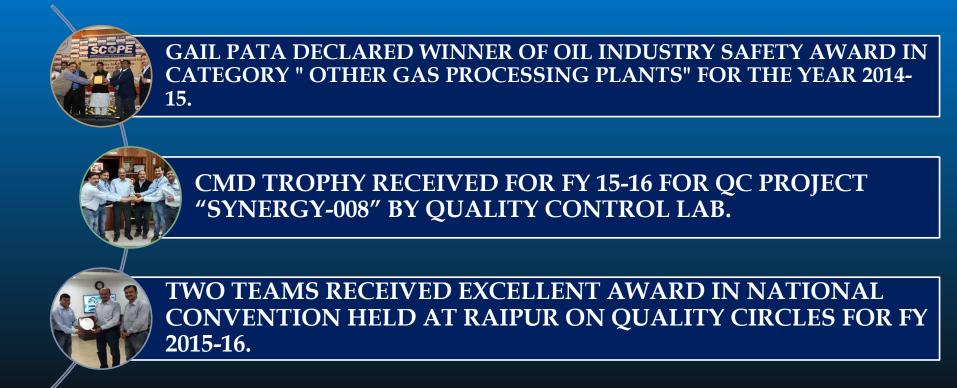


## AWARDS AND ACCOLADES

<u>An award reflects our endless efforts</u>



# **AWARDS & ACCOLADES**





# **AWARDS & ACCOLADES**



THREE TEAMS WON GOLD MEDAL & THREE TEAMS WON SILVER MEDAL IN DIFFERENT CHAPTER CONVENTIONS ON QUALITY CIRCLES CONVENTIONS, CHAPTER CONVENTION FOR QUALITY CIRCLE (CCQC) -2016.



### GAIL PATA HDPE- I UNIT WON CMD TROPHY FOR BEST HSE PERFORMANCE FOR THE YEAR 2015-16





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## GAILGAON

A haven of heaven



## **TOWNSHIP FACILITIES**

	ATM	
ALL AND AND	SPORTS FACILITIES	
	CHILDREN PARK	
	LIBRARY	
	MINI GOLF COURSE	
	DTH	
	DTH CISF	
	CISF	



## **MEDICAL SERVICES**

Full Fledged Hospital in the Township.

First Aid Centre in the Plant.

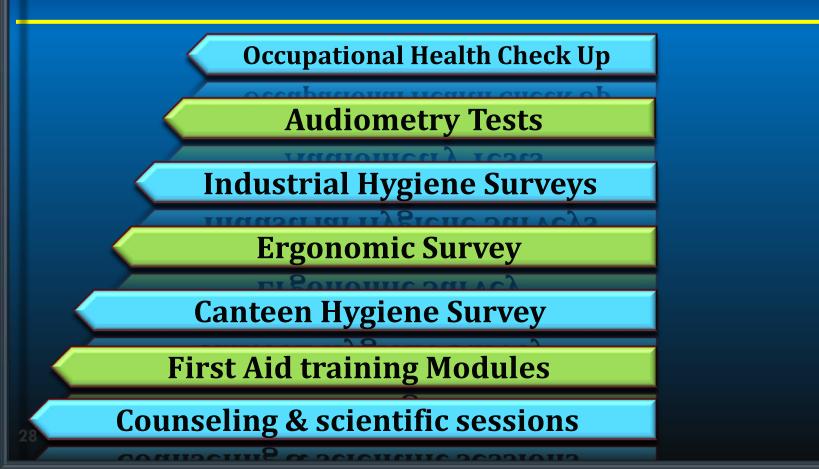


Compulsory Occupational Health Checkup for all employees including contract personnel every year.

Mobile Health Van facility for the benefit of local population.

## **MEDICAL PROGRAMS**





## SAFETY





## **PLANT DESIGN ASPECT**

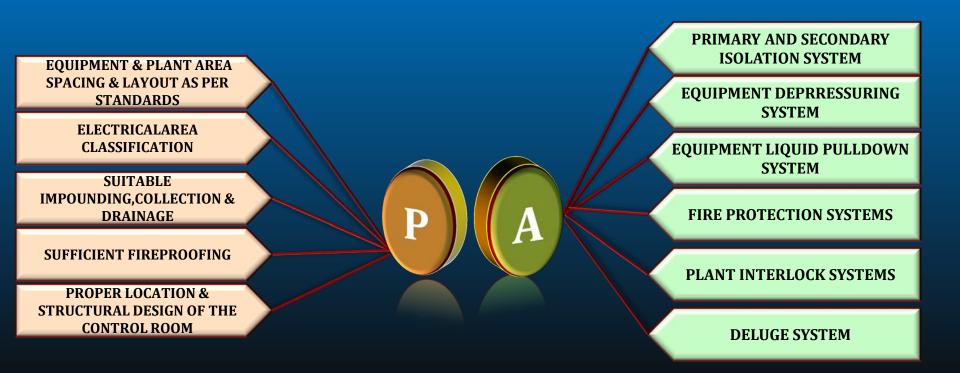
 PLANT IS DESIGNED CONSIDERING PASSIVE & ACTIVE PROTECTION METHOD

PASSIVE SAFETY DESIGN IS INHERENT & EXISTS WHETHER RELEASE OF HC/FIRE IS THERE OR NOT

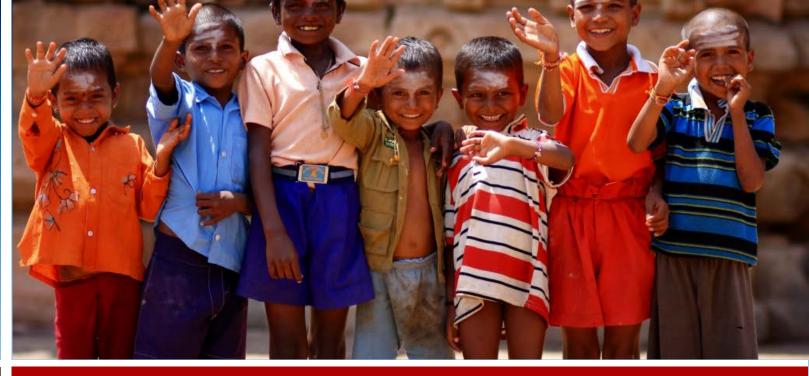
ACTIVE SAFETY DESIGN COVERS SAFETY FEATURES WHEN HC RELEASE/FIRE OCCURS



## PLANT SAFETY FEATURES









## CORPORATE SOCIAL RESPONSIBILITY

Saving Smiles



### **OUR FOCUS AREAS FOR COMMUNITY INITIATIVES**





### **CSR RELATED ACTIVITIES (2016-17)**



GAIL AROGYA-HEALTH CARE SERVICES THROUGH MOBILE MEDICAL VANS (5 NOS.) CATERING BASIC HEALTH SERVICES TO ABOUT 100 VILLAGES AROUND PATA PLANT, AURAIYA (UP), IA WOCKHARDT FOUNDATION.



GAIL UJJWAL-PADHO AURAIYA- IMPROVING QUALITY OF BASIC EDUCATION AMONG CHILDREN BY CAPACITY BUILDING & TRAINING OF TEACHERS IN ABOUT 1000 GOVERNMENT PRIMARY SCHOOLS(1<sup>ST</sup> - 5<sup>TH</sup> CLASS) IN AURAIYA DISTRICT, IA PRATHAM FOUNDATION.



GAIL UJJWAL- PROJECT AVANT FOR IMPROVING QUALITY OF BASIC EDUCATION IN 90 GOVERNMENT UPPER PRIMARY SCHOOLS(6<sup>TH</sup>-8<sup>TH</sup> CLASS) IN AURAIYA DISTRICT THRU SMART CLASSES & LEARNING BY DOING ACTIVITIES, IA -UNISED.



## **CSR RELATED ACTIVITIES (2016-17)**



GAIL KAUSHAL-SKILL & ENTREPRENEURSHIP DEVELOPMENT ACTIVITIES FOR GENERATING SELF-EMPLOYMENT NEARBY PAP VILLAGES UNDER PROGRESS, IA IEDUP LUCKNOW.



GAIL AROGYA -HIV CARE & PREVENTION THROUGH MASS AWARENESS THRU HIV TESTING/ STI TREATMENT CENTRE (KHUSHI CLINIC) FOR THE TRUCKERS NEAR KHANPUR TANKER PARKING, IA TCI FOUNDATION.



GAIL UNNATI-INSTALLATION OF 300 HAND PUMPS IN ETAWAH CONSTITUENCY IN PROCESS, IA UP STATE AGRO INDUSTRIAL CORPORATION.



## **CSR RELATED ACTIVITIES (2016-17)**



GAIL HARIT -INSTALLATION OF 1265 UNIT OF SOLAR HOME LIGHT IN NEARBY VILLAGES TO IMPROVE THEIR STANDARD OF LIVING ,IA UPSICL ALLAHABAD.



GAIL HARIT-CONSTRUCTION OF 62 BIO GAS UNITS FOR PROMOTING CLEAN ENERGY DRIVE IN RURAL AREA, IA UPSICL ALLAHABAD.



GAIL SAKSHAM -2500 UNITS OF BLANKET DISTRIBUTED TO PROTECT POOR/ UNDER PRIVILEGE /DEPRIVED SECTION OF SOCIETY FROM EXTREME WINTER CONDITION IN AURAIYA, IA NGO CVPS WITH THE HELP OF 04 WOMEN SHGS.





### **GREEN BELT & WATER BODIES**

More than 34% of total area is Green cover making it an ideal ecological habitat and promoting Biodiversity (more than 100 species of birds and other life).



### **ENVIRONMENT MONITORING**

- WASTE WATER ANALYSISSTORM WATER ANALYSIS
- STACK MONITORINGAMBIENT AIR MONITORING

SENGAR RIVER U/S AND D/S MONITORING
SOLID WASTE ANALYSIS

- NOISE ANALYSIS
- METEREOLOGICAL PARAMETER ANALYSIS



## **GREEN INITIATIVES**



Clean & Green Fuel - Natural Gas

- **On-line Ambient Air Monitoring System**
- MBR Sewage treatment plant(1 MLD)-SD project
- Rain Water Harvesting in Major Buildings
- Solar panels installation (5.67 MW)
- Water Foot printing in FY 2013-14.
- Leak Detection and Repair (LDAR) program being carried out at all the units.
- Kitchen Waste management system A Go Green Initiative



### WASTE WATER TREATMENT



Wastewater Treatment Facilities
 Treated effluent conform to prescribed standards.

This Nature has an unbiased relation with everyone since it belongs to me, to you and to all... 24 10:47

