

# Onshore Engineering Services

Welcomes

Participants

of

11<sup>th</sup> Business Partners Meet

Mumbai

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Onshore Engineering Services was created in April 2007 as a Nodal agency for execution of engineering projects at all Onshore Assets (7 Nos.) & Basins (6 Nos.) spread across the country.

OES is presently handling > 50 EPC projects which are under various stages of project lifecycle.

- Asset Creation through LSTK Projects -
  - ✓ 26 LSTK Projects valuing over Rs 5100 Cr., 10 of which have been commissioned and 16 are under execution.
  - ✓ 14 projects valuing ~Rs 5380 Cr. under tendering.
  - ✓ 3 projects of the order of >Rs 2500 Cr. currently under anvil / conceptualization.
  
- Step into Renewable Energy Projects with Award of 102 MW Wind Power Project at Jaisalmer , Rajasthan valuing Rs 678.02 Cr.

## Projects being handled by OES for creation of Surface Facilities

<b>Projects</b>	<b>Nos.</b>	<b>Value Rs in Crores</b>
Completed	10	572
Under Execution	16	4528
Under Tendering/Pre-Tendering	14	5380
Under Conceptualization	3	2500
<b>Order of Investment</b>	<b>43</b>	<b>12980</b>

# Projects Under Execution

No.	Project	Location	Value Rs Cr
1	Assam Renewal Project	Assam	2378.86
2	Upgradation of Desalter	Ahmedabad	38.89
3	GRP Water Pipeline	Ankleshwar	36.0
4	Surface Facilities	Cauvery	34.24
5	Upgradation of Konaban GGS	Tripura	253.66
6	Construction of 6 ETP	Ahmedabad & Ankleshwar	240.95
7	Sonamura GGS & Pipeline	Tripura	132.0
8	Construction of Flare Stack	Mehsana	4.65
9	4-ETPs Construction	Assam	119.34

# Projects Under Execution

No.	Project	Location	Value Rs Cr
10	Mehsana Ankleshwar Tankages	MHN+ANK	25.29
11	42 Tankages	Ahmedabad	39.00
12	3 ETP Construction	Mehsana	144.00
13	NADA ETP	Ankleshwar	144.00
14	3 ETP Construction	Rajahmundry	210.00
15	102 MW Wind Power Project	Rajasthan	678.02
16	43 Pipeline Replacement Proj.	Ahmedabad	155.25
<b>Order of Investment</b>			<b>4528.57</b>

# Projects Under Tendering

No.	Project	Location
1	6 Pipeline Replacement Project	Assam
2	Western Onshore Redevelopment Gr. A	Mehsana
3	Western Onshore Redevelopment Gr. A&B	AMD
4	Western Onshore Redevelopment Gr. A&B	ANK
5	Flare Stack Construction	Cauvery
	<b>Order of Investment</b>	<b>Rs. 3020 Cr.</b>

# Projects Under Pre-Tendering

No.	Project	Location
1	Western Onshore Redevelopment Gr. B&C	Mehsana
2	Gandhar Pipeline Replacement Project	Ankleshwar
3	Flare Stack Construction	Cauvery
4	Banskandi GCS & Pipeline	Assam
5	Implementation of M B Lal Committee Recommendations	Various Onshore Assets
6	Gojalia GGS and Pipeline Project	Tripura
7	New Crude Oil Storage Facilities & Flare Stack	Cauvery
8	Two Pipeline Project	Cauvery
9	Pipeline Replacement Project	MHN & AMD
	<b>Order of Investment</b>	<b>Rs. 2360 Cr.</b>



## Upcoming Projects (under conceptualization)

No.	Project	Location
1	Assam Renewal Project-B	Assam
2	Assam Renewal Project-C	Assam
3	Oil Tankages Construction Project	Ankleshwar
<b>Order of Investment</b>		<b>&gt; Rs 2500 Crs.</b>

## Installation types

- Group Gathering Stations (GGS)
- Gas Collecting Stations (GCS)
- Gas Compression Facilities (GCP)
- Central Tank Farms (CTF)
- Effluent Treatment Plants (ETP)
- Water Injection Plants (WIP)
- Captive Power Plants (CPP)
- Pipelines & Terminal Facilities.

Systems typical to each type of installation are mentioned in the following slides

## GGG/GCS

- Inlet Manifolds : Test, LP, MP, HP, VHP
- Indirect Bath Heater
- Separators & Heater Treater
- Storage Tanks: Treated Oil, Effluent
- Pumping Systems: Crude Oil, Condensate, Effluent
- Gas Custody Metering

## CTF

- Storage Tanks
- Surge tanks
- Pumping Systems
- Dosing Systems
- Heater Treater
- Oil Custody Metering Systems
- BS&W Meters & Auto Samplers

## GCP

- Prime Movers including Gas turbines, diesel/gas engines, Electrical Motors
- Compressors: centrifugal, reciprocating & axial
- Heat exchangers
- Fuel gas conditioners
- Gas de-hydration facilities
- KOD & flare gas systems

## ETP

- Tankages
- Effluent feed pumps, effluent collecting sumps
- Filters – nut-shell, IGF, UF
- Corrugated plate interceptors
- Bio-towers
- Chemical dosing systems
- Disposal systems

## WIP

- Water intake systems
- Treatment Facilities /Filtration plants
- Injection Pumps & MCC
- Treated Water Storage Tanks
- Chemical Dosing Systems

## PIPELINE & TERMINAL FACILITIES

- Pipelines/Pipings of various materials & sizes including 3PLPE, GRE pipelines etc
- Valves
- Line Pigging packages
- Monolithic Insulation Joints
- Scrapper Tee
- C P System, Corrosion Coupons
- Heat Shrink Sleeves

## Common systems:

- Utilities: generators, air compressors, pumps etc
- Electrical sub station & systems
- Power & control cables
- Smart instrumentation systems
- Distributed Control Systems (DCS)
- HVAC systems
- Lighting systems
- Fire and Gas detection system
- Fire fighting & fire suppression System

ONGC has presently over Rs.57000 Cr. as Onshore producing Assets which includes approximately 22000 kms. of Pipelines, 240 Onshore Installations & over 6000 producing Wells

Assets under creation by Onshore Engineering Services through ongoing projects:

**~ Rs. 4528 Cr.**

Assets planned to be created through projects under tendering & planning :

**~ Rs. 7880 Cr.**

THANK YOU