# India Offshore O&G Projects

# DIT High Value Campaign



Department for International Trade

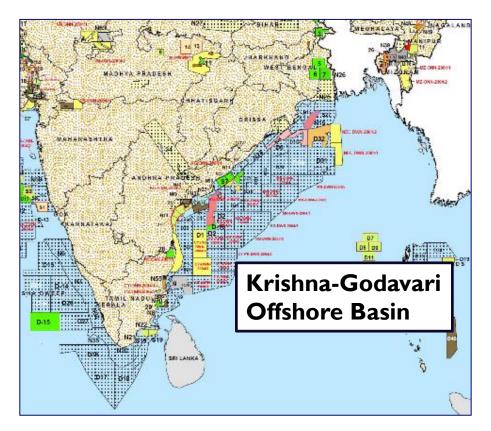


BRITAIN & NORTHERN IRELAND





# A New Important Oil & Gas Opportunity: East Coast offshore



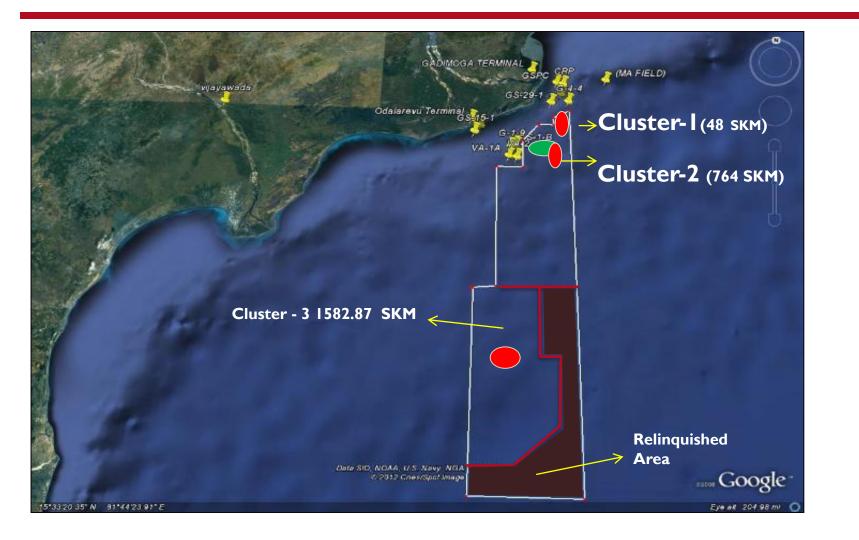
DIT's **High Value Campaign** for India in 2018/19 will focus on the deepwater East Coast region where investment in exploration and appraisal, field development and operational projects is expected to exceed **US\$ 40 billion** within the next 10 years.

# **ONGC Focus:**

- Development of Cluster II of KG-DWN-98/2 block
- Development of Cluster I of KG-DWN-98/2 block
- Development of Cluster III of KG-DWN-98/2 block
- Development of KG-OSN-2004/1 fields

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# Location map of KG-DWN-98/2 block

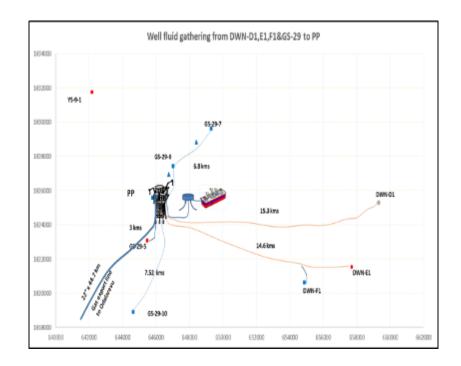


### **Cluster II development details**

- > 34 wells (15 oil, 8 gas and 11 Water Injection)
- ➤ Water Depths 280 1300 meters
- Peak free gas 12.25 MMSCMD
- Peak Associated Gas: 2.96 MMSCMD
- Peak Oil Production: 78069 BOPD
- Approved CAPEX: USD 5076.37 Million
- Early Monetization of 5.75 MMSCMD of gas from U1 & U3 fields utilizing Infrastructure of VA & S1 Project.

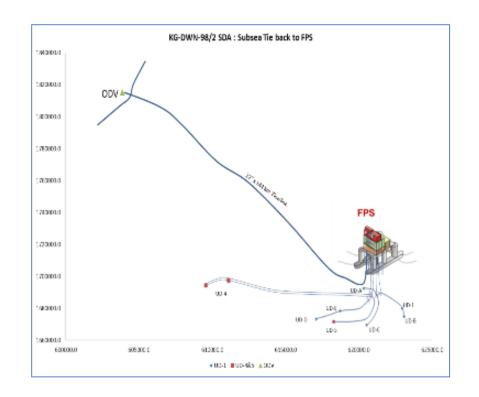
## **Development of KG-DWN-98/2 cluster I**

- Integrated development along with GS-29 nomination block in the vicinity
- Development of 3 wells in Cluster I along with 4 wells in GS-29 field.
- Water Depths from 90 to 670 m
- Peak Gas production of 5 MMSCMD and Peak oil production of 9450 BOPD
- Estimated CAPEX of USD 744.12 Million. (as per DOC)
- FDP preparation in progress.



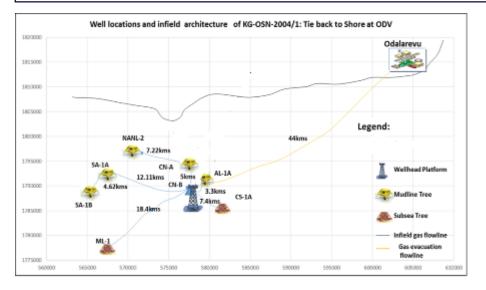
# **Development of KG-DWN-98/2 Cluster III**

- Gas Cluster with Ultra deep discoveries in SDA of 98/2 block.
- Development of 9 gas wells
- Water depths ranging from 2550
   2850 meters with max. target depth of 5400 meters
- Located 150 kms from shore
- Peak Production of 19.5 MMSCMD with plateau production of 10 years
- Estimated CAPEX of USD 3213
  Million (as per DOC)



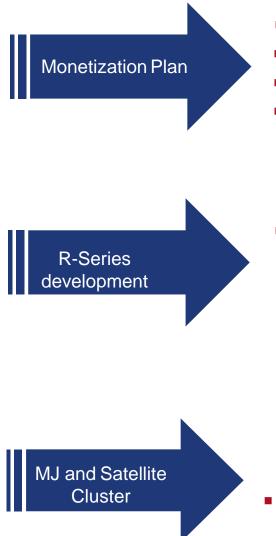
### **Development elements KG-OSN 2004/1**

Elements	KG-OSN-2004/1
Drilling & Completion	8 wells
Well Head Platforms	1 Four legged platform
Mud Line Completion System	5
Sub-Sea Completion	2
Infield lines	58.05 kms
Main trunkline	20"x44 kms
Shore Facilities	Onshore Terminal at Odalarevu



- Gas discoveries with a cumulative in-place of 17.31 BCM.
- CAPEX: USD 519 million
- Water Depth : 12- 320 meters ts
- Infield distances : ~25 kms
- Dist.to shore : 44 km

## **Reliance KG-DC update**



- JV to monetize three discovered deep water gas fields
- Combined discovered resource potential of 3 TCF
- Total planned investment of US\$6 billion
- Expected to bring on stream total of 30-35 MMSCMD gas production, phased over 2020-2022
- R-Series, first of the three projects, is a dry gas development in water-depths of more than 2,000 metres, approximately 70 kilometres offshore.
- First Gas by 2020 and is expected to produce up to 12 MMSCMD of gas
- Bid evaluation and negotiations for long lead item is currently in advanced stage
- To submit development plans for MJ and Satellite cluster for MC approval by end of 2017



# DIT O&G Technology Workshop Programme

- Launched in October 2016
- □ Aim: to help UK companies form long term relationships with India's oil & gas operators based on 'added value propositions'
- □ **2018/19 focus**: technical workshops to introduce 'supplier led' advances encompassing:
- Subsea Technology
- Umbilical's and Risers
- Advanced Control Systems
- Field Integrity Enhancement (intervention technology)
- EOR
- Training and Skills Development- Drilling, Asset Mgmt.
- Visit programme timing: May 2018







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