BROAD FRAMEWORK & KEY PARAMETERS OF FIELD DEVELOPMENT PLAN OF DSF AREA
In the Model Revenue Sharing Contract (MRSC), the clock starts from the effective date i.e. the date on which PML is granted or transferred.

The contractor has to complete the biddable work programme and to start commercial production from the existing discoveries within 3, 4, or 6 years depending on nature of discovery.

To accomplish this task, the contractor has to submit a Field Development Plan (FDP) within 6 months from the effective date.

Continued---
Article 1.47

“Field Development Plan” or “FDP” means the comprehensive plan formulated by the contractor in relation to the development of a Discovery or a group of Discoveries or Fields as the case may be, in accordance with Article 10.
Article 10.5

A FDP shall comprise of three distinct parts, namely:

Part A : Technical Assessment Report ("TAR") for the commercial development of the Field/Contract Area

Part B : Provide the detailed work plan with timelines for commercial development of the Field/Contract Area

Part C : Comprise of the estimated costs and budgets for the commercial production from the Field/Contract Area
Part A (Technical Assessment Report)

1. Executive Summary

2. Description of Field / Contract Area
   a) Field / Contract Area details
   b) Licensee Information – Participating Interest (P.I.) Structure; Operator; Consortium partner
   c) Extension history, if any
   d) Critical RSC and other issue(s), if any
   e) Relinquishment of area (if any)
Part A (Technical Assessment Report)

3. Geological, Geophysical and Petro physical Analysis
   a) Exploration history in the Field / Contract Area
   b) Geology of the area
   c) Geological information about the Field / Contract area and its complexities
   d) G&G work carried out in the Field / Contract Area
   e) Petroleum System and Generalized Stratigraphy
   f) Discovery and its details
   g) Petrophysical Analysis
   h) Analysis and Interpretations
   i) Oil & Gas in Place as per PRMS
   j) Development Area with co-ordinates and technical justification
Part A (Technical Assessment Report)

4. Reservoir Analysis
   a) Testing details of Discovery, surface flow rates and well test interpretations
   b) PVT, Fluid data and Reservoir data
   c) Basis and validation of establishing “Sustainable Production Levels” as per RSC
   d) Development Strategy
   e) Reservoir Simulation Studies
   f) IOR / EOR Plan, if any
   g) Proposed Development locations with co-ordinates (tentative and for information only) map showing locations along with 1P & 2P inplace polygons
   h) Production profile under different variants along with recommended variants
   i) Reservoir Management Plan
   j) Action required in maximizing the ultimate recovery factor from the field / Contract Area
APPENDIX ‘C’

Part A (Technical Assessment Report)

5. Development Concept and Production Facilities
   a) Development Options
   b) Flow Assurance, Chemistry & Water Injection / disposal
   c) Field / Contract Area Management Plan
   d) Pipelines network & details
   e) Delivery point with map
   f) Methodology for Measurement of Petroleum

6. Drilling and Well Completion
   a) Well Drilling Strategy
   b) Well Design and Well Completion (Production, injection, etc.)
APPENDIX ‘C’

Part A (Technical Assessment Report)
7. Health, Safety & Environment
8. Oil & Gas Evacuation and Market Strategy

Part B
Implementation schedule (timelines) for commercial development of the Field / including date of commencement of production

Part C
Costs and budget estimates and Techno economic analysis
  a) Estimated development and production expenditures
     ➢ CAPEX estimate
     ➢ OPEX estimate
  b) Techno – economic analysis

Directorate General of Hydrocarbons
Ministry of Petroleum & Natural Gas, Government of India
Tasks and activities to be performed and reported in FDP

• Reservoir Characterization & Geological Modeling that lead to Volumetric Estimation.

• Reservoir Simulation & Performance Prediction

• Techno-Economic Evaluation of Prediction Scenarios

• "To be implemented Scenario" This scenario is the core of the project, and all other activities are planned to implement this scenario. This will cover the number & type of wells to be drilled.

• Drilling & Completion Proposal

Continued---
Tasks and activities to be performed and reported in FDP

- Project Scope of Work & Execution Detail
- Project Cost Estimation
- Quality Management System
- Health, Safety and Environment
- Governing Standards – The International codes and standards for design and construction:
  - Engineering/ Construction
  - Environmental Codes and Standards
  - Drilling Standards
  - Symbols and Abbreviations
“To be implemented Scenario”

- Reservoir Development Strategy
  - Natural Flow/ Artificial Lift (Primary Recovery)
  - Water Flooding/ Pressure Maintenance (Secondary Recovery)
  - Enhanced Oil Recovery (Tertiary)
  - Well Construction: Conventional/ Maximizing the Reservoir Contact

- Field Production Profile (Oil, Gas & Water) & Schedule

- Estimation & Classification of Reserves as per PRMS

- Production System
Drilling & Completion Proposal

• Drilling & Completion are the main workload of the field development project

• They are the main carrier of the “to be implemented Scenario”

The Section should cover among other details:

• Typical/ Actual Wells Drilling Programs
• Completion/ Testing/ Suspension/ Abandonment Programs
• Well Drilling/ Completion Durations
• Contingent Cost Estimates

Directorate General of Hydrocarbons
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THANKS