Application Development Service Request
PTVSB/TECHAPPS/(YEARS)/Request Sequent Number

Requestor

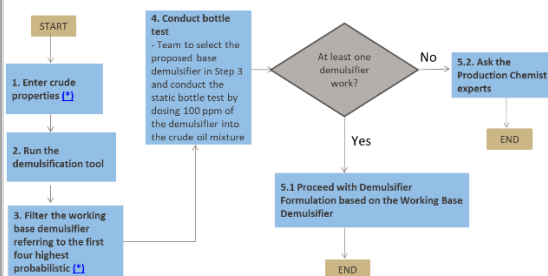|			
Name	Siti Fatimah Sarah Bt W Sagar	**OPU/HCU**	HRT/GR&T/PD&T
Date	21st June 2021	**Designation**	Executive
Email	Sfatimah_sarah@petronas.com.my	**Phone Number**	0122812926
Charge Code (If proceeding through change order)			

Request Type

☐ New application
☒ Enhancement(s) to existing application.
☐ Replace an existing application.
☐ Change Order
☐ Other: _____

Application

Application Name	iPrEST+DPT
Description	(Enhancement required just for DPT) This DPT technology envisaged development of a correlation and computer program, which can be used as a guideline to propose a demulsification strategy in term of the demulsifier selection in resolving the produced emulsion of a field or well. This tool will assist in suggesting the demulsifier chemistry in term of their RSN (Relative Solubility Number) that works in resolving the specific emulsion either EOR induced emulsion or natural emulsion.
Scope of Development	**Demulsification Tool Application Workflow** 1. Based on the workflow #3 above, TRLC recommended team to highlight the first four highest probabilistic as per example below (blue boxes manually added for presentation pack purposes, recommendation for tool to automatically highlight the first 4 highest based on probabilistic no):

2. Export to excel file:
   As per PrEST tool function, DPT also need to enhance its capability to export the result to excel file as below.

Not available yet for DPT to export to Excel

3. Sampling date:
   To change from 'Sampling date' to 'Prediction date'

Field Name :	Sumandak A08
Prediction Point :	Wellhead
Sampling Date :	Wednesday April 01, 2 ▾
	Date: 01 Apr 2020
EOR / Non-EOR	○ EOR ● Non-EOR

4. Non EOR excel template:
To remove EOR input parameters -'Water Cut' and 'Surfactant

5. Option for under 'Field Name':
To add 'Others' under field name for DPT

Maturity / TRL Level	TRL6, going to TRL7 this year
Business Impact/Value	Cost saving of having in house prediction software versus commercial prediction software (Gaussian) is RM 80,000 per software license. Value creation by using this tool ; total cost saving from formulated demulsifier RM 14 MM, manhour reduction RM 4.5 MM, and software RM 0.8 MM in 2030 for 30 fields. With ROI 7.3 in 2030.

Developed By

☐ Exploration Technology
☐ Fluids Technology
☐ Downstream Technology
☒ Hydrocarbon Recovery Technology
☐ Unconventional & Emerging Technology
☐ Others:_____

Attachment

☐ Project Timeline
☐ Project Brief (including list of project team members)
☒ Approved TRLC Paper
☐ Maintenance plan / contract – (for application developed by 3rd party)
☐ Code Handover Document
☐ Others:_____

Approval

Requested by	Reviewed by	Approved by
Name: Siti Fatimah Sarah Bt W Sagar Team Leader	Benayad Nourreddine Program Leader	Salina Bt Baharuddin Head of Delivery (HRT)
Date: 12th July 2021	12th July 2021	12th July 2021
Department/OPU: HRT/GR&T/PD&T	HRT/GR&T/PD&T	HRT/GR&T/PD&T