June 29, 2023

# PHASE 2 DOCUMENT

NeoSOFT is a SEI-CMMI Level-5 Global IT Consulting & Software Solutions Provider

**Emcure NPD** 

Copyright © 2022 NeoSOFT Pvt. Ltd. | All rights reserved | No part of these materials should be reproduced, published, transmitted or distributed in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any information storage or retrieval system of any nature nor should the materials be disclosed to third parties without the prior express written authorization on NeoSOFT Pvt. Ltd.

Document Control Sheet	
<b>Current Version</b>	1.2
Project Code	NS_Emcure_29_06_2023
Project Name	Emcure NPD Phase 2
Document Type	Milestone Document
Author	Nilesh
Sales Person	Saumil Shah
Frequency of Document Review	Next Revision of Standard Documents
<b>Document Creation Date</b>	29-06-2023
Last Updated Date	7-July-2023

Revision History						
Version	Date	Name	Comments			
1.1	29-06-2023	Nilesh	Milestone Document			
1.2	07-07-2023	Nilesh	Milestone Document			



### **Emcure NPD Phase 2**

### Milestone 1

#### 1. PIDF

- a) Reference product detail & API sourcing block which we have hidden as per Rahul Patil request but now as mentioned by SID, we would need those again.
- b) InHouse field which we have hidden as per Rahul request we would need those again and will be utilized for PBF costing (In House or Out Sourced)
- c) Once PIDF is submitted, we need to send reminder everyday to all the different business unit users who have access to PIDF module. It will be for let them mark, interested / Not interested.
- d) PIDF details can be edited until Finance approved the same, since user can extend the countries while filling commercial details, so we should have option to edit the record in PIDF until Finance get approved. Note: Approval of PIDF will not be required in case of extension of countries -- That feature will be implemented on commercial screen
- e) Every business unit will be able to see PIDF request in list and than they can edit the records. There will be further new business logic for different business units.
  - i. Form will have radio button (Every business unit user have to fill this up)
    - 1. Interested
    - Not Interested
  - ii. If its interested than every business unit need to select the Region and Countries for which it is going to be interested
  - iii. After filling region and country
    - 1. They can update the PIDF form and it will be for their specific business unit only
    - Here they can not change "Dosage Form, Dosage Type, Molecule Name & In House" apart from that, user can change anything and that will be saved respective to their business unit.
- f) PIDF request can not be approved for 15 days or until all business unit provide their response "Interested / Not Interested".

- g) Once PIDF Request is approved after that no business unit can select Interested / Not Interested.
- h) Once PIDF request is approved it will be process further for those business unit only who marked this as Interested.
- i) Need to add 2 more new field into PIDF
  - i. Trade Name Required (Boolean) yes / no
  - ii. Trade Name Date Registered (It will display only when Trade Name says Yes)

#### 2. IPD Form Changes

- a) We will have all the business units which is active in the system
  - i. Form will be enabled for only those business units says interested, for other business unit form will not be there we will have note: "{BusinessUnit} have said not interested on {DateTime} by {User}". OR {BusinessUnit} have not taken any action on this.
- b) IPD details can be edited until Finance approved the same, since user can extend the countries while filling commercial details, so we should have option to edit the record in IPD until Finance get approved. Note: Approval of IPD will not be required in case of extension of countries -- That feature will be implemented on commercial screen
- c) Patent Details for Formulation & API
  - i. This data should be Country specific so we need to add new column country where every patent details will be as per country.
  - ii. All the countries for business unit should auto come which user have selected while saying interested.
  - iii. We will have below more fields in this child form
    - 1. Country
    - 2. Patent Strategy (Dropdown) These will fetch from db table, but master is not required in this scope.
      - a) Other option will be there in dropdown, if that is selected than we need to give textbox to enter value
    - 3. Patent Type (textbox)
    - 4. Basic Patent Expiry (Date field)
    - Other Lmiting Patent Date 1 (Date field)

- 6. Other Lmiting Patent Date 2 (Date field)
- 7. Earliest Launch Date (Date field)
- 8. Any Patents to be Filed (Boolean field)
- 9. Earliest Market Entry (Date field)
- 10. Estimated Number of generics in the market (textbox)
- 11. Law firm being used (textbox)

### 3. PBF Module Changes

- a) In PBF we should have option to Reject the request, if user rejected from here, this complete project will get rejected (Requested by Mr. Uday Potdar & SID) (This option will be there for if any molecule which can not be developed due to technical issues than request can be rejected)
- b) We will have all the business units which is active in the system
  - i. Form will be enabled for only those business units says interested, for other business unit form will not be there we will have note: "{BusinessUnit} have said not interested on {DateTime} by {User}" OR {BusinessUnit} have not taken any action on this.
- We need another tab "RA" which will have below fields and data will be specific to countries.
  - i. Country
  - ii. Pivotal batch manufactured
  - iii. Last data from R&D
  - iv. BE Final Report
  - v. Type of Submission
  - vi. Dossier Ready Date
  - vii. Earliest Submission D Excl
  - viii. Earliest Launch D Excl
    - 1. As per selection of some parameters / fields this value will auto come, it have different selection and period
  - ix. Last date to regulatory (Date)
- d) Enhance the UI for PBF form in terms of usability, we can use tabs and next button click to save the data

- e) General Tab New Fields
  - i. R&D Responsible person (Textbox)
  - ii. Type of development (Date)
  - iii. Pivotal batches manufactured completed (Date)
  - iv. Stability Results
    - 1. Day 0 (Date)
    - 2. 3 months (Date)
    - 3. 6 months (Date)
  - v. Some more fields would be required as mentioned below, those are not mandatory fields

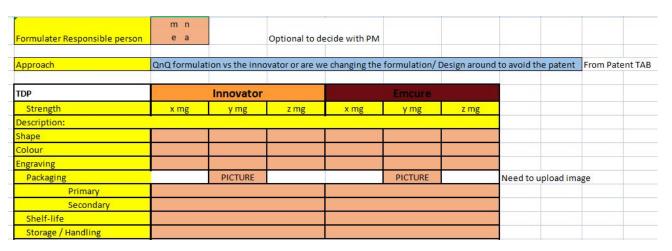
General Section / Optional Not Mandatory	Non-standard product	Yes / N
General Section / Optional Not Mandatory	Pivotals	
General Section / Optional Not Mandatory	Batch size	
General Section / Optional Not Mandatory	No. Batches per strength	
General Section / Optional Not Mandatory	Site transfer (if yes, when)	Date
General Section / Optional Not Mandatory	API ordered	Date
General Section / Optional Not Mandatory	API Received	Date
General Section / Optional Not Mandatory	Final Formulation Approved	Date

vii. Below form would be required to fill data, user will enter into textbox and save the data

	RnD General Section Readonly data	Pack sizes on stability	Pack size 1	Pack size 2	Pack size 3	Pack size n
	RnD General Section Readonly data	Strength 1	Types	Types	Types	Types
	RnD General Section Readonly data	Strength 2	Types	Types	Types	Types
	RnD General Section Readonly data	Strength 3	Types	Types	Types	Types
ii.	RnD General Section Readonly data	Strength n	Types	Types	Types	Types
н.		The state of the s	27		0	

Clinical Tab New Fields

- i. BE Study Results (Date from Bio tab)
- g) TDP (Trade Dress Proposal) New section required under the general tab, this form will be completely editable and user will be able to enter all the details and we need to save those.



- While filling PBF data we will display only those strength which is applicable for selected business unit.
  - i. PBF charter should be business unit specific and we can have multiple in case of one molecule, if strength are different for business units.
- i) We need to display data of Type of submission, National Approval & Dates in read only format, just for user to see logic begin the earliest launch date

#### 4. Commercial Module Changes

- a) We need to remove feature of Interested / Not Interested which we have developed as per Rahul Patil request.
- b) We will have all the business units which is active in the system
  - i. Form will be enabled for only those business units says interested, for other business unit form will not be there we will have note: "{BusinessUnit} have said not interested on {DateTime} by {User}" OR {BusinessUnit} have not taken any action on this.
- c) We need to have another layer/tab for the country, where strength will be displayed as per country and further level / operation will be same. So eventually we will have data for every business unit -> Country -> Strength -> Pack Size -> Year Data.

- d) In this module we need additional feature to extend interested countries so user can select more countries interested than what they actually selected when they shown interest in PIDF
  - i. It will effect on PIDF & IPD both screens since its reverse feature
    - 1. IPD form will be editable to submit the data for new countries
    - 2. PIDF form will be editable for submit the data for new countries
- e) Commercial year data --> Target cost of good (decimal field) need to be add into popup
- f) Commercial year data, initially discussed to add for 3 years now we need to add for 5 years.
- g) Currently we have one scheduler which send reminder everyday to those users who have access of commercial module, it will send to those users only who said interested or not taken any action.
  - 1. Now we need to change in logic again where reminder will be send to business unit who said interested while PIDF and this reminder frequency will be once in a week

#### 5. API Management

- a) API IPD
  - i. Data for Patent details will be displayed as per region and country
- b) API RnD
  - i. Data for Patent details will be displayed as per region and country
- c) If user select API Not Interested than User will have a form in the same popup, These are the fixed properties and it wont be dynamic

		API	Management
API Outsource			
API suppliers	Primary	Potential Alt. 1	Potential Alt. 2
Supplier	e contract		
Polymorph			
Process (early c)			
Process (late c)			
Manufacturing site			
Date of Site EU authority inspection	From Quality	From Quality	From Quality
Date of Site Tillomed inspection	From Quality	From Quality	From Quality
Lead time	50 10		
DMF availability			
Cost (R&D cost/KG)			
Cost (commercial cost/KG)			
	textboxes	textboxes	textboxes

d)



- 1. As per this scope we only need to capture this data, we do not need to display it any where. We will consider this in next milestone.
- e) If user select API Interested than User will have a form in the API RnD section, These are the fixed properties and it wont be dynamic

API if In-house	
Root of Synthesis	
Polymorph	H .
Process (early c)	
Process (late c)	
Manufacturing site	
Scheduled	
Filing time	
Investments/Capex if Any	
Lead time	
Cost (R&D cost/KG)	
Cost (commercial cost/KG)	

f)

i. This filled data we need to present in API charter in readonly fields.

#### 6. Finance Management

- a) We do not required any country mapping in Batch wise costing section
- b) We will have all the business units which is active in the system
  - i. Form will be enabled for only those business units says interested, for other business unit form will not be there we will have note: "{BusinessUnit} have said not interested on {DateTime} by {User}"
- c) We will have all the strength from different country and business unit in one dropdown
- d) COGS will be same in case of one SKU and pack size (for different business unit) only market share and NSP are going to change as per entered in commercial for different business unit
- e) Finance Charter
  - i. We need feature to see summary as per business unit and country
  - ii. We need feature to see summary as per business unit and all the countries.
- f) Currently for One SKU and Pack size we are getting some data from commercial, these data we are getting from the commercial (In commercial those are year specific), as of now we are fetching fist year data for that SKU and pack size and use for display and calculation. As discussed with SID this is correct and no changes required.

#### 7. Budget Approval

- a) In case of different strength available for business unit, we will have different charter. If we will have same strength than we will have one charter.
- b) Finance Charter
  - i. We need feature to see summary as per business unit and country
  - ii. We need feature to see summary as per business unit and all the countries.
  - iii. We need feature to see summary for all business unit (consolidated)
    - 1. Till Cumulative cash flow all the data will be sum but after that all values will be calculated from upper values only, so sum will not happen there.
- c) By Default Finance Charter should be selected as active one
- d) We need to add another data to display on this screen
  - i. Market
  - ii. Launch Year
  - iii. Country wise summary

	SU (IMS Volume)			SU (IMS Volume)		SU (IMS Volume)  Launch year +2				
Molecule + Pharmaceutical form	Launch year		Launch year +1						Launch Stock required	
	Selling price	Units	Value	Selling price	Units	Value	Selling price	Units	Value	3, 6, 9 Months
10 mg 1*10			=C10xD10	- Maria - 1970		=F10xG10	111111111111111111111111111111111111111		=I10xJ10	=D10*M9/12
Strength 1 Pack size 2			=C11xD11			=F11xG11			=l11xJ11	=D11*M9/12
Strength 1 Pack size n			=C12xD12			=F12xG12			=l12xJ12	=D12*M9/12
Strength 2 Pack size 1			=C13xD13			=F13xG13			=I13xJ13	=D13*M9/12
Strength 2 Pack size 2			=C14xD14			=F14xG14			=I14xJ14	=D14*M9/12
Strength 2 Pack size n			=C15xD15			=F15xG15			=I15xJ15	=D15*M9/12
Strength n Pack size 1			=C16xD16			=F16xG16			=I16xJ16	=D16*M9/12
Strength n Pack size 2			=C17xD17			=F17xG17			=I17xJ17	=D17*M9/12
Strength n Pack size n			=C18xD18			=F18xG18			=I18xJ18	=D18*M9/12
			1900 170	700						
Tradename required	Yes / No	If yes	Tradenam	date register	Add in PIDF For	m country	vise			

1.

#### 8. Project Management (POST PIDF)

- a) What ever the workflow has been selected into PBF form (In House) OR Commercial Form (Out Source) according to that set of tasks should get auto created and will be displayed into Gantt and Task list.
- b) As of this milestone we will have 2 workflow, one is for Tillomed and another is for Global, we need to have support for this to create tasks.

#### 9. Wishlist Module

- a) This will be simple form where we will manage CRUD operations. This data will not be utilized any where.
  - Type drop down These will fetch from db table, but master is not required in this scope.

ii. We will utilize this data later -> Its out of scope for now.

Type:	Geography:	<b>T</b>	Country:	
Molecule name:	Strength:		O In house	O In license
Date of Filing:	Date of Approval:		Date of Approval:	
Name of vendor:	Vendor evaluation remark:		Reference drug product (if available):	
Remarks:		Save as Draft	Save	Cancel

### 10. Outsourced /In-licensing products

- a) If we have this option selected while creating PIDF than we will have different impact
  - i. PBF -> Request will not be visible in PBF form since we are not making product in house.
  - ii. Commercial

iii.

- 1. We need additional Tab where option to fill Cost & timeline (Its more or less PBF data, which will be later utilized into PBF Charter)
  - a) It will have 2 dropdown at initial level
    - i. Project Management Workflow
      - 1. It will be selected here, according to that it will create tasks in project management
    - ii. PBF Charter Workflow
      - 1. By selection of that auto title & timeline will be populated.
        - a) User can remove any row or add new row for that data.
- iii. PBF Charter
  - 1. We will present the data in same format as we are entering details, since there are no format available as of now.
- 11. Master Management

- a) Workflow for Project Management (As of now we need table only, screen can be developed later)
- b) Workflow for PBF Cost (Outsource) (As of now we need table only, screen can be developed later)
- c) Masters to manage for RnD
  - i. Type of submission
  - ii. National Approval
  - iii. Workflow for different dates

### Milestone 2

### 1. Different summary on screens

a) Commercial Module

On Hold for now, we will have this milestone 2 & we will keep this in commercial module		Estimated Annual Volume								
	Calculated from country tabs	Xmg	ymg	Zmg			pack size *	Units * country	= Tablets per	year
	Year 1									
	Year 2									
	Year 3									

2. Reports