

<h1>SRI</h1>		ISO 9001: 2015 Quality Management System Quality Procedure Manual	
Document No: SRI-QPM 05			Revision No :04
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Title :Procedure for Design & Development of Product			

5.0 PROCEDURE FOR DESIGN &NDEVELOPMENT OF PRODUCT

5.1 Scope

This section of the manual describes procedure of designing of new formulations and products which is a continuous activity of the company either to develop the existing products or completely a new product.

5.2 RESPONSIBILITY

The General Manager (Research and Development) is overall responsible. All works connected with Design & Development is done by Design & Development Committee approved by General Manager (R&D).

5.3 PROCEDURE FOR DESIGN

Flow	Activity	Responsibility	Ref
<div>DESIGN INPUTS</div> <div></div> <div>DESIGN OUTPUT</div> <div></div>	1. Receive new product concept.	AGM(R&D)/SE/ADE/MM	DC-FORM-01
	2. Project registration.	AGM(R&D)/SDE/ADE	WI-023
	3. Determine the schedule for each design & development activity.		DC-FORM-04
	4. Determine the following design inputs.		WI-023
	i. Functional & performance requirements.	SM-IM/MM	
	ii. Information derived from previous similar design & development activities.	GM (R&D)/AGM(R&D)	SRI-QPM-028
	iii. Statutory & regulatory requirements.	AGM(R&D) / SDE/ADE	
	iv. Standards or codes of practice that the organization has committed to implement.		DC-FORM-02
	v. Potential consequences of failure due to the nature of the products.		
	vi. Requirements not stated, but necessary for product use.		
	5. Appoint design development committee.	GM (R&D)/AGM(R&D)	DC-FORM-05
	6. Held 1st DDC meeting.	AGM(R&D)/SDE/ADE	
	1. Suggest formulation & design new formulation, if necessary.	GM(R&D)/AC/ AGM(R&D)// SDE/AD	DC-FORM-02
	2. Determine the required resources & subsequent processes for the provision of product.	SDE/SADE/ADE	DC-FORM-06
	3. Determine monitoring & measuring equipment & requirements, as appropriate, and acceptance criteria.	”	Test Method-TM Docs
	4. Specify the characteristics of the product that are essential for the intended use and safety and proper provision of the product.	”	QC-010
	5. Develop 3D prototype according to the input requirements & send to the relevant marketing departments.	”	E-MAIL
	6. Carryout costing.	”	TSF-14-1/E-MAIL

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Flow	Activity	Responsibility	Ref
DESIGN VERIFICATION	1. Verify and ensure that the design development outputs meet the input requirements.	GM/(R&D)/ AGM(R&D)// SDE/ADE	QC-010
	2. Take necessary actions, if found any gaps at verification.	AGM(R&D)//SDE/ADE	„
MOULD DESIGN	1. Receive the approval of new design proposal.	AGM(R&D)//SDE/ADE	CR-FORM-01 Mould Drawings/ E-MAIL
	2. Design mould/s drawings.	„	„
	3. Verify & ensure that the mould drawings meet output requirements.	GM(R&D/ AGM(R&D)/ /SDE/ADE	„
	4. Submit mould drawings to IS department for quotations.	AGM(R&D)/SDE/ /ADE	„
	5. Receive counter drawings after quotation approval.	„	„
	6. Confirm counter drawings.	„	„
	7. Do changes in the counter drawings, if necessary.	„	„
FORMULATION DESIGN	1. Examine the input requirements.	AGM(R&D)/AE(R&D)	DC-FORM-02 IT- FORMULATION-01 E-MAIL
	2. Design new formulation, if not available.	„	IT-REC-062
	3. Order new materials, if necessary.	„	„
	4. Do sample compound mixing & carryout testing of new compound formulation.	„	„
	5. Verify & ensure that the test results meet input requirements.	GM/(R&D)/M(R&D) /AE(R&D	„
	6. Do changes if necessary.	M(R&D)/AE(R&D)	„
SAMPLE PROCUCTION	1. Receive the mold/s and check for the compliance according to the approved drawings.	AGM(R&D)//SDE/ADE	DD-CL-01
	2. Verify the mold/s & inform to the IS dept.	„	„
	3. Prepare sample production specifications according to the design output requirements.	„	E-MAIL TSF-14 -1
	4. Inform to the planning dept. and <i>COP dep</i> , to do the necessary arrangements for the sample production.	AGM(R&D)//SDE/ADE COP	E-MAIL/Customer Order
	5. Produce the samples according to the sample specifications with <i>COP</i> monitoring.	AGM(R&D)//SDE/ADE /PRODUCTION/COP	TSF-14-1
	6. Do changes, if necessary.	„	„

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<div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin: 10px 0; transform: rotate(-90deg); transform-origin: left top;">PRODUCTION VALIDATION</div> <div style="text-align: center;">↓</div>	1. <i>Identify the samples accurately with COP for collection of samples produced.</i>	AGM(R&D)//SADE/ADE/STM COP	SP-FORM-02
	2. Hand over product samples to the laboratory for testing and field tests.	”	IT-REC-13 A
	3. Hand over product samples to the relevant marketing dept with SP-FORM -02:	”	SP-FORM-02/ IT-REC-13A
	4. Get the test results of internal/external/field tests.	GM/(R&D)/	
	5. Ensure that the product meets the requirements established for the specified application or intended use.	AGM(R&D)//SDE/ADE	SRI/RRB/16/01/Test Reports
<div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin: 10px 0; transform: rotate(-90deg); transform-origin: left top;">TRAIL PRODUCTION</div> <div style="text-align: center;">↓</div>	1. Prepare trial production specification according to the sample production.	SDE/SADE/ADE	” TSF-14-1s
	2. Inform to the planning dept: to do the necessary arrangements for the trial production.	SDE/SADE/ADE/ COP/Production	E-MAIL/ Customer Order
	3. Do the trial production according to the trail production specifications.	”	TSF-14-1/ Grading Reports
	4. Do changes, if necessary.	”	TSF- 14-1
<div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin: 10px 0; transform: rotate(-90deg); transform-origin: left top;">PILOT PRODUCTION</div> <div style="text-align: center;">↓</div>	1. Prepare pilot production specification according to the trial production.	SDE/SADE/ADE	TSF-14-1
	2. Handover to COP dept: to do pilot production.	COP/Production	”
	3. Do changes, if necessary.	”	”
<div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin: 10px 0; transform: rotate(-90deg); transform-origin: left top;">COMMERCIAL PRODUCTION</div> <div style="text-align: center;">↓</div>	1. Issue monitoring specification based on the approval of the pilot production.	AGM(R&D)//SDE/ADE	TSF -14-1
	2. Handover to COP dept: to do monitoring production.	COP/Production	”
	3. Issue permanent specification.	GM/(R&D)/ AGM(R&D)// SDE/ADE	”
<div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin: 10px 0; transform: rotate(-90deg); transform-origin: left top;">DESIGN CHNGERS</div>	1. Receive requisition for the design change/s.	”	DC-FORM-01/ E-MAIL/ MEETING MINUTES
	2. Identify & review the requested change & the requirements to the relevant product.	”	DC-FORM-02
	3. Do the requested change/s or any other change/s to meet the requirement of the above change	”	
	4. Review the results after the change/s & validate the results.	GM(R&D)/ AGM(R&D)// SDE/ADE	IT-REC-13A SRI/RRB/16/1

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