<b>⊕</b> MUSASHi		STANDARD	PROCEDURE		Procedure for New
Procedure No.	Issue	Rev.	Date	Page	Product development
ISP-PE-002	02	01	12-Oct-17	01 of 04	

PAGE NO.	Issue	Rev.	REASON FOR CHANGE	DATE
All	01	00	New Document Release	1-Jun-14
All	01	01	Time frame of issuing final drawing to one deptt, to another deptt, double check is included at sr.no. 3 & flow chart, PQCS made by QA team, PQCS Revision criteria & Handling of Changed PQCS, responsible for receipt of inspection standard from customer is included at s.r. no. 10	24th Jul 2014
All	01	02	Review of Kakotora learning, PQCT change identification method included & PQCT guideline added at pt.no.10, Rule for identification of special characteristics MQS, process control, past trouble added at pt.no.8,	15th Dec 2014
All	01	03	Revised PQCS submit to customer with in seven days added in point no. 10  Trouble record sheet compilation and information to PE for horizontal deployment in New model added at point no .9 and onsite verification of measurement method added at pt. 7,14,19 & flow chart	15-Feb-15
All	01	04	Revised PQCS submit to customer with in seven days added in point no. 10.  Trouble record sheet compilation and information to PE for horizontal deployment in New model added at point no. 9 and onsite verification of measurement method added at pt. 7,14,19 & flow chart	18th Feb.2015
All	01	'05	Drawing issue to BLR added at point no. 3	12th Mar 2015
All	02	00	New Issue of IMS manual	1 <sup>st</sup> April 2015
All	02	01	M- Flow ( QCD) activity added at point no. 5,11,18,24,28 & in Flow chart	08th May 2015
All	02	02	Distortion observed more than 0.01mm then thorough investigation done is added in flow chart	16th Nov.2015
All	02	03	Responsibility of review & updation of PFMEA clearly defined at point no. 9	30th Jan 2016
All	02	04	Customer specified critical (Q) mark added at point no.8 & OEE and CT rule is added	15th March 2016
All	02	05	Initial flow control & RPN rating calculation (Annexure-2) is added	31st May 2016
All	02	00	Rule New Machine Planning / Ordering / Commissioning , CT information sharing rule is added	15th July 2016
All	02	01	M-flow Timing Chart, Evaluation Item & OEE, cycle time calculation flow included in Anx.3 & 4	21-Jul-16
All	02	02	DCN added in Flow chart	8th Dec.2016
All	02	03	Special characteristics matrix	17th Feb.2017
All	02	04	Human resource department linked to MDT team in point number 01	21-Jul-17
All	02	00	New Document Release	8-May-17
All	02	01	Gauge design approval revised to joint approval by ME & QA in flow chart Production trial done min 3 batches & Tool life to be freeze prior to mass production added in flow chart Point added in 10 After feasibility study, QA Matrix to be prepared & updated MQS requirement point added to Supplier in point no-8 as per TVS action plan	12-Oct-17

Checked By

Approved By

### Major Links To:

MD	Director- HR	Director-Purchase , Sales	Director- Finance & Account, FC,IT
Head HT & Forging	Head- Factory Control	Head - PE	Head- Machine Shop
Head- Sales	Head- Purchase	Head- Quality Assurance	

### 1.0 Purpose

To establish a procedure for defining the step necessary to assure that the product satisfies the customer and also to facilitate communication with everyone involved assuring that all required steps are completed on time .

## 2.0 Scope

Applicable For all Products intended to be sold from MAP-ID to customers

- New products
   Engineering Changes

## 3.0 Responsibility

Department Head - Process Engineering

Documents Referenced	Number	Records Referenced	Number
Work Instruction for Engineering	ISW-PE-001	Team Feasibility Commitment	ISF-PE-006
Document Control		Product Quality Planning Signoff	ISF-PE-007
PQCT making Guidelines	ISD-QA-034	Dimensional Inspection Report	ISF-QA-017
Rule Identification of special characteristics	ISD-PE-001	Material Inspection Report	ISF-QA-018
Rule - Setting of OEE , cycle time for New model	ISD-PE-002	Inspection Standard issue record	ISF-QA-051
Rule -New Machine Planning / Ordering / Commissioning	ISD-PE-004	Trouble History sheet	ISF-QA-061
Rule- CT Setting information sharing	ISD-PE-005	Initial flow control	ISF-QA-065
		Special characteristics matrix	ISF-PE-021



# **STANDARD PROCEDURE**

Procedure for New Product development

Procedure No.	Issue	Rev.	Date	Page
ISP-PE-002	02	01	12-Oct-17	02 of 04

4.	0	Pι	ro	ce	d	u	re

rl.	Activity	Input		Responsibility
1	Nominate a Multidisciplinary team(MDT) approved by	Customer		Head Process
	Div.Head for performing product development	requirement		Engineering/
	comprising personnel from following departments, as			FC
	applicable			
	Process Engineering			
	Sales			
	Machining, HT & Forging			
	Purchase			
- 1	Quality Assurance			
	Engineering		t li	
	Factory control			
	Human resource			
2	A Product development plan detailing time plan for	Customer	Development	MDT/Head PE/
•	various activities is charted out considering all the	requirement		FC
	activities and customer delivery requirements		, , , , ,	
	and a second of the second of			
3	MDT performs drawing study and a process sequence			
1	is identified			
	ы панид			
	Final Drawing issue by Sales to PE With in	Drawings	Issue of	Associate Sale
		Drawings	Documents	Associate Sale:
	3 Days after Receipt From Customer.		Documents	
	Oi			III. IBE (
	Comparison b/w Old,New Revision Drawings through	1		Head PE /
	colour matching by Engineer & verified by Section Head			Associate PE /
	One copy of Final Drawing issue by PE to QA & ME BLR With in			
	10 Days after Receipt From Sales.			Associate P.E
4	The MDT will identify, review and document the	Product Design	Identification of	MDT/ Head PE
	manufacturing process Design input such as Product	input Data	Resources	
	Drawings & Standards, Customer Requirements,	Previous	Charles of work months	8
	Experience from previous developments etc	Experience		
	· · ·	l '		
5	A team feasibility commitment is conducted by MDT	Drawing	Team	MDT/ Head PE
-	The same is communicated to Div.Head by Head	Study	Feasibility	
	Process Engineering and reviewed for any actions	Development	Commitment	
			Communent	
	required.	Plan		
	M FLOW (OCD) such stier is served out	Cinal descripe	Fuelustian	MDT
	M-FLOW (QCD) evaluation is carried out	Final drawing	Evaluation	MDT
		Master timing plan	as per annexure -2	
^	December Commence and the form the	Di	D	MDT
6	Process Sequence matrix is made to have the	Drawings	Process	MDT
	summary of all processes & source		Sequence	
			matrix	
				l
7	Process sheets are developed by MDT. Approval from	Development	Process	MDT
	Quality Assurance & Machining / HT & Forging is	Plan	Sheets	
	taken for Quality & process parameters			
	( including measurement method )	ŧ	*	
	Checking of process sheet to be carried out by	Final drawing	Process sheet	Associate- PE
	colour matching with final drawing			
	to ensure all parameters of final drawings are covered			
	in process sheet			
8	Special Characteristics are identified based on	Customer	Identification	MDT
	following guidelines	Drawing /	of Special	
	Customer Drawings / Standards study	Regulations/	Characteristics	
	MQS (Manufacturing Quality Standard)	3	-	
	Severity rating 9 or above in PFMEA	CRC		
	Previous Manufacturing Experience			
	Safety and Government Regulation			
	Contract Review checklist			
	ANTHOR IN THE P	Drawing ICCD	Undated MOS	MDT
	Note: MQS Sheet (Exp. :critical , fit , function parameters) will be shared to	Drawing /CSR	Updated MQS	MDT
	Supplier by MDT and Updated MQS will be received.	/MQS	Incoming inspection	
	NPD QA has to verify & confirm the same as per Drawing		report	ľ.
				MOT
	TEL BUILDING STATE	0 4		IMIDI
	The Special Characteristics are referred by the notation	Customer	FMEA'S,PQCS-II,	
	1. Safety/Compliance 3. Fit/Function and Process Control	Customer Drawing /	Process sheet	

<b>₽MUSASH</b> i		STANDARD PROC	EDURE		Procedure for New Product
Procedure No.	Issue	Rev.	Date	Page	development
ISP PE 002	02	01	12-Oct-17	03 of 04	

15P-P	PE 002 02	01	12-Oct-17	03 of 04		
Srl.	Ac Incorporated in the original Drawings,FMEA'S,F	Ctivity		Input	Output	Responsibility
	and accordingly in settling approval, Inspection equipment check sheet whereas applicable	check sheet				Printers
	PFMEA is carried out by MDT Past trouble recoreviewed during making / reviewing PFMEA. PFMEA to be reviewed once in a six month or on the basis of: - corrective action taken against customer comhigh internal rejection - Trial rejection under new development - addition of new process		ŀ	Process Sequence matrix /sheets Past Trouble Record	PFMEA	MDT/Head PE
	- whenever any process improvement is carried - RPN is calculated as per annexure-2 Receipt quality and final inspection Quality tear	π make the trouble record		V(3,145)		Head QA / Head I
	sheet on basis of problem received from supplicand inform to NPD QA team for compilation. After compilation of past froubles in trouble received from the Process Engineering. Process engineering will ensure that all c/m takes are horizontal deployed in new model, where expenses the process engineering will ensure that all c/m takes are horizontal deployed in new model.	ord sheet NPD QA team en against past troubles			sheel	
	* Past troubles countermeasures of similar mod parts to be reviewed during design stage & QC			Trouble record sheet	Evaluation report	MDT
10	PQCS-I & PQCS-II are made by QA after receil from Process sheets , PFMEA , as per PQCS inspection standard (Inspection std.received	making guidelines &		PFMEA, Process Sheets	PQCS-I PQCS-II	Head QA
	with in two business working weeks Inspection standard received from customer by & it will be issued to P.E. deptt for updation (lik	QA/Sales deptt		Inspection Inspection standard	Issue record	Associate QA
	in one week After Feasibility study, Q GATE MATRIX for Fi to be prepared & updated	tment Parameters inspection rep	port	Drawing	QA Matrix sheet	MDT
	Whenever changed in process sheet / PFMEA the PQCS to be revised accordingly & the rev clearly indicated by encircle the change point f Obsolete hard copies are destroyed / deleted with 'OBSOLETE COPY' Stamp, Obsolete Soft Revised PQCS to be submit to customer with in	ision details should be or clarily / identified Files are deleted		Change items	Revised PQCS	Associate QA / Head QA
11	Identify the requirement and plan the procurement the below items:  New machines / equipment's (as per Rule -N Ordering / Commissioning)  New gauges / testing equipment's  Raw material / Forging / Assembly parts  Cutting tools / Dies / Jigs & Fixture  Accessories / Consumables	ew Machine Planning /	-	Process Sheets	Procurement Plan sheet	Head Process Engineering
	Note: Gauge design will be jointly review &che and set the target for OEE, Cycle time, manp as per OEE cycle time setting rule CT setting is informed to concern as per CT set	power and rejection	odel	Gauge plan /gauge drawing OEE setting sheet Standard operation sheet Cost sheet	Gauge approval Targel of OEE Cycle time, manpower and rejection	Head QA / Head Head PE
	M-FLOW (QCD 0) evaluation is carried out			VAVE, Master timing plan Costing sheet , past trouble sheet , FMEA	Evaluation as per annexure -2	MDT
12	Sample production (PP1): One copy of Process Sheets with Prototype MQA/PDE	larking is issued to Machining/H	IT&Forging/			Head PE / Associate PE /
13	Manufacturing of initial samples is carried out Machining/ HT & Forg. & Samples along with a documents handed over to QA department by	all the		Process Sheet Original Drawing	Sample lot	Head Machinir HT & Forging
	In case of 4W - wherever applicable FFT valid shaving operation.		ne at	Process sheet	FFT Graph	Associate PF Associate QA
14	Carry out inspection / testing of sample covering dimensional and material characteristics. & ve A copy of drawing is marked with highlighter p ticked for all parameters covered in inspection.	rify measurement method en, numbered &		Original drawing & Process sheet	Dimensional & Material Inspection Report	Associate QA/ Head QA
15	Submit the sample along with relevant inspect testing report and other documents to the cust			Inspection report & samples	Customer evaluation	Head Factory Control / Sale
16	Receive the customer sample evaluation reported with MDT. In case of any concern raise customer, resolve the same. (Re-submit the sarequired after repeating activity 14 to 16)	d by		Sample evaluation report	Action Plan	Head Factory Control / Head Sale
17	Review the documents made for sample produsuch as PQCS-I, II, Process Sheets and make necessary changes (if any).			Sample evaluation report	Review of Documents	MDT Head QA Head Process Engineering
18	A controlled copy of Process Documents a receipt / identification of obsolete documents	ire issued to the concerned d	lepartments ensuring	Amended Documents	Issue of amended documents	Head Process Engineering
	M-FLOW (QCD 1) evaluation is carried out			Customer approval reports, Lay out inspection report, c/m sheet, Set up summary	Evaluation as per annexure -2	MDT

<b>⊕</b> MUSASHI		STANDA	RD PROCEDURE		Procedure for New Product development
Procedure No.	Issue	Rev.	Date	Page	
ISP-PF-002	02	01	12-Oct-17	04 ní 04	

	P-PE-002 02 01	12-Oct-17	04 of 04		
Srl.	Activity	T	Input	Output	Responsibility
$\rightarrow$	Pilot Batch Production (PP2/PP3):		AMENIA.	- Sampan	- Transmitt
- 1	On the basis of Original Drawing, Forging / Blank		Original	Inspection	MDT / Head QA
	Drawings etc. the respective Incoming inspection	1	Drawing,	formats for	Head
- 1	Setup Approval sheets for various machines, In-Process		PQCS-I & II		Mcg/HT&Forg.
- 1	inspection formats, Final Inspection report format are		Process		
- 1	prepared and onsite verification of measurement method?		sheets		
		4	0,10010		
20	MSA study is carried out as per PQCS-II requirements		PQCS-II,	MSA Results	Head QA &
-			Process sheet	The state of the s	Mcg./HT&Forg
21	Pilot production is planned as per customer agreed	11	Sample	Pilot Batch	Head
. 1	quantity/ Qty. identified by MDT.		Approval	Production	Mcg./HT&Forg.
- 1	(Default Target for MDT : 2 Days Output (Mass prodn.		приста	Toddollon	Mog / Trus org
-1	despatch intent qty x 2)		Pilot Batch	Initial Process	Head QA
	The Initial process studies are carried out to measure	- 1	Production	Study	Mcg /HT&Forg
	the process Capability. The acceptance criteria is		rioddellori	Olddy	weg iiri di orgi
	Results Interpretation				í .
	Index>1.67 The process currently meets acceptance criter	па			
	1.33≤Index≤1. The process may be acceptable. Contact the				l.
- 1	authorized customer representative for a revier	104/			
	of the study results	144			
	,	ntanaa			
	Index<1.33 The process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not currently meet the acceptance of the process does not consider the process does not consider the process does not consider the acceptance of the process does not consider the process does no				
	criteria. Contact the authorized customer repre	caent-			
	-tive for a review of the results.		Pilot Batch Production		Hood OA
2	Carry out inspection / testing of sample covering all the		r not paten Froduction	Dimensional	Head QA
	dimensional and material characteristics. A copy of			& material	
	drawing is marked with highlighter pen, numbered &			Inspection	
	ticked for all parameters covered in inspection.			Report	
3	Submit the Pilot lot along with IPP / Customer		IPP & Pilot	Customer	Head Factory
	specified format to the customer		Lot	approval	Control / Sale
			La maria	0.00	
4	The reviews during development cycle are planned &		Development Plan	QCD 2 evaluation	MDT
	carried out with TM as per plan. The quality planning			meeting / Quality Sign off	
	sign off / M FLOW (QCD 2) evaluation meeting is carried out			As per annexure -2	
	before ( N-2 months , N= SOP) Mass production initiation		Trial results		
5	Plan and implement the actions decided to complete		evaluation report	Actions	MDT
	the pending activities if identified during quality			implemented	
	planning sign off/ QCD 2 evaluation.				
26	A PAP file is maintained by QA for		IPP	PAP File	Head QA
	each component		Approval		1000000
27	Regular production is carried out as per plans received		Customer	Production	Head Factory
	from customer		Production plan	schedule	Control
28	M-FLOW (QCD 3 ) evaluation is carried out at the completion	n	Development Plan	Evaluation	MDT
	of first three months of mass production			as per annexure-2	
	The various problems encountered during initial mass produc	ction			
	(Initial flow control) runs are reviewed for status / closures.				1
	Initial Flow control		I		
	Initial flow control period should be fixed, in principle initial flo	'ow	3		
	Initial flow control period should be fixed, in principle initial flo	'ow	1		
	period should be 3 months for new parts				
	period should be 3 months for new parts The following activities to be carried out during initial flow cor	ntrol:-			
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