

**F1404 FEASIBILITY TO QUOTE**

**OFFER #:**

**CUSTOMER:**

**INSTRUCTIONS:**

*This file could have annexes, to be provided by multidisciplinary team.*

*Only fill the information that is applicable, as per multidisciplinary team decision. Write “N/A” where corresponding.*

*Optional: in case some information is not available prior the AWARD, the company can decide to define it in more detail in the APQP process P0501.*

*After each item, use space as needed for each answer.*

*In case Engineering change requires additional information in order to decide if the change is feasible, multidisciplinary team can add needed items.*

*The format “F1412 Pre-factibilidad” could be included as an annex. Write “INCLUDED IN THE FORMAT F1412” where corresponding.*

**RESPONSIBLE TO FILL THIS SECTION: SALES**

* *GATHER NEXT REQUIREMENTS:* *(Customer may decide to provide this information after the Award or customer may not have access to this information)*
  + - **Legal requirements and regulations**
    - **Pre-delivery and post-delivery requirements (logistics requirements)**
    - **Specifications, latest drawing revisions**
    - **Recycling and environmental impact requirements**
* *YEARLY VOLUMES IN CUSTOMER UNITS AND IN STEEL NEXT TO PRESS TONNAGE:*
* *INDICATE THE DRAWINGS CONSIDERED ON FINAL OFFER SENT TO CUSTOMER:*
* *PROJECT LIFE (YEARS #):*
* *DOES THE TOOL WILL BE PROVIDED BY CUSTOMER? – IF YES, RECEIVE TOOL CHARACTERISTICS:* 
  + **PITCH:**
  + **WIDTH:**
  + **CAVITIES#:**
  + **DIE REMAINING LIFE:**
  + **TYPE OF TOOL (CORPACK, LOOSE, INDEXATION, COMPENSATION, PUSH-BACK) :**
  + **GENERAL MEASURES: HEIGHT, LENGTH AND WIDTH:**
  + **ANCILLARY EQUIPMENT WILL BE TRANSFERED:**
* *CUSTOMER PRELIMINAR KEY DATES:*
  + **Target date for first parts from tool maker or from ETM prior PPAP (if required):**

***(Specify reports which should be submitted with the parts prior PPAP).***

* + **Target date for PPAP submission:**
  + **Target date for SOP (start of production):**
* *CUSTOMER STEEL REQUIREMENT:* 
  + **SEMI/FULLY**
  + **CORE LOSS**
  + **THICKNESS**
  + **COATING**
  + **SLITTED COIL WIDTH**

**RESPONSIBLE TO FILL THIS SECTION: ENGINEERING**

* *PRESS TONNAGE / PRESS NUMBER / LINE/ (BLANKING AND/OR DIE CASTING):*
* *STROKES PER MINUTE / OEE / (HOURS PER SHIFT= 7.5 HR) :*
* *AREAS IN mm / ALUMINIUM WEIGHT in Kg / GLUE & PRIMER in ml:*
* *GENERAL PROCESS (i.e.= blanking 🡪st annealing🡪rotor die casting🡪rotor grinding🡪packaging st&rt) :*
* *BLANKING AND /OR DIE CASTING TOOLING LIST :*
  + **PITCH in mm:**
  + **WIDTH in mm:**
  + **#CAVITIES:**
  + **TOOL RAW MATERIAL (CARBIDE/STEEL):**
  + **TOOL LIFE GUARANTEE (MILLION OF STROKES):**
* *ANCILLARY EQUIPMENT PRELIMINAR LIST (ESTIMATED COSTS AND LEAD TIMES):*
* *TOLERANCES TO BE REVIEWED/CLARIFIED WITH CUSTOMER BEFORE ACCEPTING THE PROJECT / OR INDICATE OVER THE ATTACHED PROJECT DRAWINGS (THIS HAS TO BE ADDED IN THE OFFER) :*
* *PRELIMINAR TIMING :*
* *RETURNABLE PACKAGING PRELIMINAR OR ESTIMATED SPECIFICATION (Defining consumable items quantity). IN CASE CUSTOMER WILL PROVIDE RETURNABLE PACKAGING, ENGINEERING MUST DEFINE CONSUMABLE ITEMS QUANTITY:*
* *PRELIMINAR OR ESTIMATED NON-RETURNABLE PACKAGING SPECIFICATION :*
* *INDICATE THE NUMBER OF DIRECT PEOPLE PER OPERATION OF THE FLOW DIAGRAM (PRELIMINAR OR ESTIMATED):*

**RESPONSIBLE TO FILL THIS SECTION: PURCHASING**

* *STEEL INFORMATION AS PROVIDED BY CUSTOMER VS PROPOSAL COMPARISON*

*MINIMUM INFORMATION TO REVISE:*

* + **SEMI/FULLY**
  + **CORE LOSS**
  + **THICKNESS**
  + **PERMEABILITY**
  + **COATING**
  + **MASTER COIL WIDTH**
  + **THICKNESS TOLERANCE**
* *RETURNABLE PACKAGING PRELIMINAR SPECIFICATION COSTS. IN CASE CUSTOMER WILL PROVIDE RETURNABLE PACKAGING, PURCHASING MUST DEFINE CONSUMABLE ITEMS COSTS (PRELIMINAR OR ESTIMATED):*
* *NON-RETURNABLE PACKAGING COSTS (PRELIMINAR OR ESTIMATED):*

**RESPONSIBLE TO FILL THIS SECTION: LOGISTICS**

* *PACKAGING LOOP SIZE ACCORDING TO VOLUMES & FINISHED PRODUCT INVENTORY DESIRED QUANTITY:*
* *DO WE HAVE ENOUGH SPACE TO STORAGE THE FINISHED PRODUCT INVENTORY DESIRED QUANTITY? (In case the answer is no, the project manager should consider the development and planning of this activity in phase 1) :*
* *DO WE HAVE CAPACITY TO COMPLY VOLUMES IN THE SUGGESTED PRESS(ES) :*

**RESPONSIBLE TO FILL THIS SECTION: FINANCE**

* *APPROVE OR DEFINE AN ESTIMATION OF THE COSTS OF THE PRESS DEFINED BY ENGINEERING:*
* *APPROVE OR DEFINE AN ESTIMATION OF THE COSTS OF THE EQUIPMENTS/TOOLING/PROCESSES THAT WERE NOT PROVIDED BY ENGINEERING OR PURCHASING:*

**RESPONSIBLE TO FILL THIS SECTION: QUALITY**

* *PRELIMINAR MEASUREMENT METHOD PROPOSAL (PRELIMINAR DESIGN OF INSPECTION LINEPROPOSAL)*
* *ESTIMATED GAUGES AND EQUIPMENT COST*
* *DO WE HAVE CAPACITY IN CURRENT LABORATORY EQUIPMENT? (If not, what equipment is needed? Provide estimated cost.)*
* *ESTIMATED PROCESS SCRAP % PER OPERATION OR FOR THE FINAL OUT PUT:*

**RESPONSIBLE TO SEND RFQ TO TOOLMAKER FOR BUDGETARY QUOTE: SALES**

* *MINIMUM INFO FROM TOOLMAKER (Budgetary offer from supplier):*
  + **PITCH in mm:**
  + **WIDTH in mm:**
  + **#CAVITIES:**
  + **TOOL RAW MATERIAL (CARBIDE/STEEL):**
  + **TOOL LIFE GUARANTEE (MILLION OF STROKES):**
  + **LEAD TIME:**
  + **PROCESS FLOW ACCORDING TO TOOLING FEASIBILITY /TYPE OF TOOLING (glue, interlock, loose lam, blank & notch, etc.):**

**Only if applicable, the next steps are needed, if not we continue with the last quote of toolmaker:**

**RESPONSIBLE TO FOLLOW TECHNICAL DISCUSSION AND DEFINE TECHNICAL DESIGN WITH TOOLMAKER: ENGINEERING**

**RESPONSIBLE TO FOLLOW COMMERCIAL DISCUSSION WITH TOOLMAKER: PURCHASING**

**RESPONSIBLE TO CONFIRM FINAL QUOTATION WITH TOOLMAKER: ENGINEERING & PURCHASING**

Signatures for approval & Date

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| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Manufacturing Engineering & Continuous improvement Manager |  |  |  | Purchasing Manager or Project Purchasing Chief |
|  |  |  |  |  |
|  |  |  |  |  |
| Production Manager |  |  |  | Quality Manager or Quality Director |
|  |  |  |  |  |
|  |  |  |  |  |
| Project Manager |  |  |  | Logistics Manager |
|  |  |  |  |  |
| Sales Manager or Sales Coordinator for absence |  |  |  | Technical Director |

**\*Note: Managing Director signature required if there’s an intentional risk being assumed by the company.**

**HISTORIAL DE MODIFICACIONES.**

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| --- | --- | --- | --- |
| Nivel | Descripción del cambio | Reviso | Fecha |
| 0 | Emisión Inicial por cambio de código interno | Gerente de Ventas | 08/May/21 |
| 1 | Se revisa formato y se adecúa a las necesidades actuales. Actualizar título del formato.  Cambio de “PROJECT MANAGER” a “ TECHNICAL DIRECTOR” en la firma del documento.  Se agregan miembros del equipo multidisciplinario como requeridos para firma. | Gerente de Ventas | 21/Jun/22 |
|  |  |  |  |