SIPOC

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Suppliers** (Either Internal / External) | **Inputs** (what do you receive) | **Requirement s**  (what are the requirements from the Inputs) | **Key Process steps** | **Output** (what do you release or goes out from  your activity) | **Requirements** (What are the expectations & details required from your activities including TAT | **Customers** (Either Internal / External) |
| Production | Maintenance request against breakdown, abnormality | Service description & Equipment/ Location | * Inspection/ Identification/ understanding of request * Availability of material and manpower resource * Work permit & isolation * Execution of job * Closure of work permit &   isolation | Execution n of job/ Successful trial & closure of request | Response time, duration & quality of job | Production |
| Production | Availability of plant | Availability target of 97.78% | * PM & CBM compliance during run/ stop checks * Analysis of last year major downtime * Action plan with responsibilities & target date * Timely Completion of actions * performance   evaluation & its monitoring | Desired Availability of plant | Time period and performance evaluation | Production |
| Commercial | Technical offers/ quotation | Technical Evaluation | * Comparison of offers * Identification of acceptable offers | Technic al Evaluation report | Time period | Commercia l |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Stores | Critical spares availability | Item no., stock, plant/ unit | * Pending PR/ PO report   Creation/ approval of PR | PR | Specification, quantity, delivery date etc. | Commercia l |
| Mechanical | Electrical Isolation of drive | Equipment/ Location, LOTO | * Electrical Isolation * LOTO | Shutdo wn slip | Response time, duration | Mechanical |
| Electrical/ Mechanical | Motor connection- disconnection  / Decoupling/ dismounting/ Drive trial | Equipment/ Location, Production clearance/ Work-permit | * Drive connection * Current checking/ drive direction | Successf ul trial | Normal current and correct drive direction | Production |
| Design | Design notification | Technical details | * Create design notification * Original drawing (if available) | New/ Revised drawing | Accurate Technical details | Mechanical  / Electrical |
| Stores | Issuing material | WO no., authorised requisition slip | * Creation of WO * Creation & authorization of slip | Receipt of material | Correct material in right quantity | Mechanical  / Electrical |
| Stores | Material receipt report pending for inspection | Daily | * Physical checking for quality/ dimensions | Material inspecti on (Accept ance- Rejectio  n) | Accuracy, response time, time duration | Stores |

MEASUREMENT MATRIX

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr.No** | **Parameter of Measurement** | **Unit** | **Frequency** | **Target & Tolerance** | **Method of Measurement** | **Responsibility** | **Review Forum** |
| 1. | Closure of Break-Down notification | No of hours | Daily | Max 24 hrs for plant downtime and within  budget | Report through SAP | Engineer In- charge | AO war room/ Daily |
| 2. | Closure of MR  notification/ abnormality | No of days | Monthly | Max 30 days | Report through SAP | Engineer In- charge | AO war  room/ Daily |
| 3. | Availability of insurance &  vital spares | % | Monthly | 100% | Report through SAP | Engineer In- charge | Monthly MIS |
| 4. | Elimination of unsafe conditions  and acts | No. Of points | Monthly | 100% -5% | Safety master file/ Safety rounds | Engineer In- charge | VAB EXCO/  Weekly |
| 5. | Service level  agreement | % | Monthly | 100%/-20% | Evaluation of  Parameters | H.O.D.  Maintenance | Monthly  AO |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | Area Engineer | audit |
| 6. | 5S score | % | Monthly | 70% | Monthly audit | Engineer In- charge | Monthly AO  audit |
| 7. | AO score/ Migration to  AO advance | % | Monthly | 80% | Monthly audit | Engineer In- charge | Monthly AO  audit |
| 8. | Fans Operation/  Noise level | dB | Quarterly | Max 85 db  for 8 hrs | Recording of noise level in  db | H.O.D.  Maintenance Area Engineer |  |
| 9. | Oil consumption &  Oil return to store | L | Monthly | 65% used oils to return back to store as  compare to issue. | Report through SAP | H.O.D.  Maintenance Area Engineer |  |
| 10. | Maintenance cost per ton | Rs./ton | Monthly |  | Report through SAP | H.O.D.  Maintenance Area Engineer | Monthly OR |
| 11. | RM Spillage |  |  |  | Visual | Engineer In-  charge |  |
| 12. | Specific Energy  consumption | KWh/ ton | Daily | Plant-wise target | EMS report | Energy Manager | AO war room/  Daily |
| 13. | Imparting  training as per calendar | Nos. | Monthly | 100%/-10% | Training  book/ checklist | H.O.D.  Maintenance | Monthly MIS |
| 14. | Timely inspection and receipt of material in  stores | Day | Daily | <= 3 days | Receipt report | Area Engineer | VAB EXCO/  Weekly |

|  |  |  |
| --- | --- | --- |
| **Prepared By:**  Associate Manager | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Head - Mechanical |
| **Signature:** | **Signature:** | **Signature:** |
| **Date:** 03.01.2022 | **Date:** 03.01.2022 | **Date:** 03.01.2022 |