APPENDIX J

Function Point Metrics.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Measurement Parameter | Count | Weighting Factor  Simple Average Complex | | | Total |
| Number of user inputs | 14 | 3(7) | 4(7) | 6(0) | 49 |
| Number of user outputs | 30 | 4(21) | 3(7) | 7(2) | 119 |
| Number of user inquiries | 6 | 3(1) | 4(5) | 6(0) | 23 |
| Number of files | 6 | 7(2) | 10(2) | 15(2) | 64 |
| Number of external interfaces | 0 | 5(0) | 7(0) | 10(0) | 0 |
| Total Counts (TC) | | | | | 255 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | Complexity Adjustments Responses | Ratings | | | Average |
| 1 | Does the system require reliable backup & recovery? | 2 | 3 | 3 | 2.7 |
| 2 | Are data communication required | 5 | 5 | 5 | 5 |
| 3 | Are data distributed processing functions? | 3 | 4 | 5 | 4 |
| 4 | Is performance critical | 3 | 3 | 4 | 3.3 |
| 5 | Will the system run in an existing heavily utilized operational environment? | 3 | 3 | 3 | 3 |
| 6 | Does the system require online data recovery? | 0 | 0 | 0 | 0 |
| 7 | Does the online data recovery require the input transaction to be built over multiple screens or operations? | 0 | 0 | 0 | 0 |
| 8 | Are the master files updated online? | 5 | 5 | 5 | 5 |
| 9 | Are the inputs, outputs, files, or inquiries complex? | 2 | 3 | 3 | 2.7 |
| 10 | Is the internal processing complex? | 5 | 5 | 5 | 5 |
| 11 | Is the code designed to be reusable? | 4 | 5 | 5 | 4.7 |
| 12 | Are the conversion and installation included in the design? | 3 | 4 | 5 | 4 |
| 13 | Is the system designed for multiple installations in different organizations? | 5 | 5 | 4 | 4.5 |
| 14 | Is the application designed to facilitate change and ease of use by the user? | 4 | 4 | 5 | 4.3 |
|  | Response Score Summary (RSS) | 44 | 49 | 52 | 48.3 |
|  | Value Adjustment Factor (VAF) | VAF=(0.65+(0.01\* RSS)) | | | 1.13 |
|  | Total Augmented Function Point (TAFP) | TAFP = VAF \* TC | | | 288.15 |
|  | Weighting Factor (WF) | WF = TAFP\*VAF | | | 325.61 |
|  | Cost Factor (CF) | Based on team’s preference for each module | | | 500.00 |
|  | Total Project Cost (TPC) | TPC = TAFP \* CF | | | P144,075.00 |
|  | Project Duration (PD) | PD = TC / days in a week | | | 36 weeks |

Computation:

|  |  |  |
| --- | --- | --- |
| FACTOR | FORMULA | VALUE |
| Total Count (# of items \* weight) | Formula = Σ(Product column) | 255 |
| Responses Score Summary (RSS) | Formula = Σ(Fi) | 48.3 |
| Value Adjustment Factor | (0.65+0.01 x RSS) | 1.13 |
| Total Augmented Function Points | Total Count \* Value Adjustment Factor | 288.15 |
| Cost Factor | Based on Team’s Preference for each Module | 500.00 |
| Total Project Cost | Total Augmented FP \* Cost Factor | P144,075.00 |
| Project Duration in Weeks | Total Count / days in a week | 36 weeks |