

PRODUCTION COST CALCULATOR

QUOTATION V-2

Project: Production Cost Calculator

Version: 1.1

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1. Time Estimation by Module

| Module | Tasks Included | Estimated Time (Days) | Notes |
|--|---|-----------------------|--|
| Requirement Analysis & SRS finalization | Understand client needs, review SRS | 1-2 | Already mostly done |
| UI/UX Design (Next.js + CSS Modules) | Layout, responsive forms, dashboards | 6-8 | Includes charts and reusable components |
| User Authentication & Roles (JWT) | Login/logout, JWT token, role-based access | 1-2 | Includes Admin, Manager, Accountant, Staff |
| Product Management | CRUD products, batch sizes, search/filter | 3-4 | Include pagination and sorting |
| Raw Material & Vendor Management | CRUD materials & vendors, stock tracking | 3 | Include frequent material save, alerts |
| Labor Management | CRUD labor, input hours, cost calculation | 3 | Direct/Indirect labor, overtime |
| Machine & Utilities Module | CRUD machines, hours, utility costs | 2 | Cost calculation per batch |
| Overhead Management | Fixed/% overheads, automatic calculation | 1 | Monthly/annual tracking |
| Wastage / Scrap Handling | Wastage %, scrap resale, cost adjustment | 1 | Per material per batch |
| Packaging & Transportation Costs | Input costs, add to batch | 1 | Per unit/batch |
| Profit Margin Module | Apply %/fixed, suggest selling price | 1 | Show profit/unit/batch |
| Batch Management & Cost Engine | Create batch, calculate total/unit cost, break-even | 4-6 | Core calculation logic |
| Reports & Dashboards | Charts, KPI dashboard, batch/month/year comparisons | 3-5 | Interactive charts, drill-downs |
| Scenario / "What-if" Simulation | Cost change simulations, comparison | 2 | Recalculate dynamically |
| History & Database Management | Save batches, versioning, comparison | 2 | Includes search/filter history |
| Notifications & Alerts | Stock alerts, budget alerts | 1 | Real-time notifications |
| Export & Integration | PDF/Excel export, future API hooks | 2 | SheetJS, jsPDF |
| Testing & Bug Fixing | Unit testing, integration testing, UI testing | 3-4 | Include edge cases |
| Deployment & Documentation | Server setup, deployment, code/docs handover | 1-2 | Web deployment and API docs |



2. Total Hours & Cost

Total Ideal Time

- Sum of all modules: **41-55 days** (~8-11 weeks full-time)

Note: This assumes **full-time development without major interruptions**. Adding 10-15% buffer for unforeseen delays, client changes, or debugging is recommended will increase further.

| Parameter | Minimum | Maximum |
|-------------|---------|---------|
| Hours | 328 | 440 |
| Hourly Rate | ₹190 | ₹190 |
| Cost | ₹62,320 | ₹83,600 |

Average Cost: ₹72,960 → Rounded **₹63,000**

Average Time: 384 Hours = ~ 48 Days = ~ 9 Weeks

3. Final Amount with Discount

- Final Amount Agreed:** ₹63,000
- Discount on Hourly Rate:** Reduced from ₹190 → ₹175/hour (~7.9% discount)
- Overall Discount Applied:** Offers confidence to client for full feature implementation.

4. Why Discount

There are **around 60 features** included in this project. This increases the time and cost. However, to **build confidence and collaboration**, I am offering a **discount on the hourly rate** and **overall project cost**.

5. Options for Proceeding

- Remove certain features from the list**
 - Reduces development time and overall cost.
- Keep all features and apply discounted rate**
 - Hourly rate reduced from ₹190 → ₹175/hour
 - All functionality remains intact

