**Feasibility Study Report**

ON

WATER BOTTLING PLANT

Submitted in partial fulfillment of the requirements for the course of

Project Appraisal & Management; EMBA-5403, Fall 2022

Department of Accounting & Information Systems



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*Executive Summery*

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|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Estimated Costing of 250ml, 0.5Liter, 1.0Liter, 1.5Liter, 2.0Liter, 5.0Liter Bottled & 20 Liter Jar Water** | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |
| **SL No.** | **Cost Items** | **0.250 L** | **0.5 L** | **1.0 L** | **1.5 L** | **2.0 L** | **5.0 L** | **20.0 L** | **Remarks** |
| 1 | Bottle (PET) | 2.37 | 3.03 | 4.48 | 5.656 | 7.53 | 18.01 | 0.00 | PET Price 162.999 Tk/kg Weight- 0.25L = 15.20gm, 0.5L =18.60gm, 1.0L= 27.50gm, 1.5L = 34.70gm, 2.0L=46.20gm, 5.0L= 110.50gm |
| 2 | Cap (HDPE & LLDPE) | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.02 | 1.36 | HDPE, LDPE, LLDPE Price 180.21 Tk/kg Cap 5L Weight- 5.7gm, Cap 20L Jar Weight- 7.6gm. |
| 3 | Hanger (HDPE & LLDPE) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 0.00 | HDPE, LDPE, LLDPE Price 180.21 Tk/kg Weight-7.45gm |
| 4 | Body Label | 0.52 | 1.02 | 1.04 | 1.32 | 2.77 | 3.26 | 0.93 | Body Label Price 1633 Tk/kg, Weight- 0.25L = 0.38gm, 0.5L =0.55gm, 1.0L= 0.81gm, 1.5L = 1.50gm, 2.0L=1.70gm, 5.0L= 20gm |
| 5 | Wrapping | 0.50 | 1.00 | 1.50 | 1.86 | 2.70 | 5.75 | 0.00 | Wrapping Paper Price- 277.01 Tk/kg, Weight- 0.25L = 28gm, 0.5L =35gm, 1.0L= 31gm, 1.5L = 41.5gm, 2.0L=53gm |
| 6 | Security Seal & Tag | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.60 | Security Seal Price-1480Tk/kg, Weight- 0.4gm/pc, MFG tap 1 tk/pc |
| 7 | Dosing Chemical | 0.001 | 0.002 | 0.004 | 0.005 | 0.006 | 0.007 | 0.1 | As expenditure |
| 8 | Power | 0.067 | 0.133 | 0.26 | 0.26 | 0.533 | 0.533 | 0.533 | Total =3406213tk/y , Per day (34062136/365) =9332.09tk, prt liter = (9332.09/35000)=0.266TK |
| 9 | Fuel (Gas & Oil) | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.00 | Gas + Oil =586386tk/y , Per day (586386/365) =1606.54tk, prt liter = (1606.54/35000)=0.045TK |
| 10 | Salary, Over Time, Convence (Out Sursing & MasterRol) | 0.08 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | Total =55,00,000 tk/y , Per day (5500000/365) =15068.5tk, prt liter = (15068.5/35000)=0.43TK |
| 11 | Consumable Item Cost | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0 | Total =10,00000tk/y , Per day (1000000/365) =2739.726tk, prt liter = (2739.72/35000)=0.078TK |
| 12 | Maintenance Cost | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | Total =19,00000tk/y , Per day (19,00000/365) =5205.47tk, prt liter = (5205.47/35000)=0.148TK |
| 13 | Capital Invesment (10%) | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | Total =75,65,914tk/y , Per day (7565914/365) =20728.53tk, prt liter = (20728.53/35000)=0.6TK |
| 14 | Raw Water | 0.01 | 0.02 | 0.04 | 0.06 | 0.08 | 0.2 | 0.80 | 35.28tk/1000 leater , rate=0.035tk/lit |
| 15 | Overhead (1%) | 0.04649 | 0.06433 | 0.08552 | 0.10389 | 0.14847 | 0.30308 | 0.0547 |  |
| 16 | Depreciation (5%) | 0.2347745 | 0.3248665 | 0.431876 | 0.5246445 | 0.7497735 | 1.530554 | 0.276235 |  |
| 17 | **Total Cost** | **4.9302645** | **6.8221965** | **9.069396** | **11.0175345** | **15.7452435** | **32.141634** | **5.80** |  |
| 18 | SD | 0.246513225 | 0.341109825 | 0.4534698 | 0.550876725 | 0.787262175 | 1.6070817 | 0.29004675 | **(5% of total cost)** |
| 19 | VAT | 0.77651665875 | 1.07449594875 | 1.42842987 | 1.73526168375 | 2.47987585125 | 5.062307355 | 0.9136472625 | **(15% of total cost)** |
|  | **Grand Total Cost** | 5.95329438375 | 8.23780227375 | 10.95129567 | 13.30367290875 | 19.01238152625 | 38.811023055 | 7.0046290125 | **(Taka)** |