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Title Lorem Ipsum

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ABSTRACTS

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum. Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

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1. INTRODUCTION

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sapien. Sed elementum varius leo, sit amet rutrum ipsum ultricies in (Westall & Brack, 2018). Aenean id mi arcu. Phasellus semper efficitur eros eu laoreet. Vivamus vitae malesuada turpis. Morbi interdum orci iaculis tempor facilisis (Khechekhouche, *et al.*, 2020; Sadasivuni, *et al.*, 2020; Yahiaoui, *et al.*, 2020; Kim, *et al.*, 2019). ed egestas mattis condimentum. Etiam et tristique turpis. Ut tincidunt velit vitae hendrerit euismod. Sed molestie volutpat orci ut placerat. Ut sit amet lorem urna. Donec luctus pharetra venenatis. Ut vel orci venenatis, tincidunt orci sit amet, pharetra ipsum. Pellentesque commodo nulla vitae ex blandit, ut sagittis turpis vestibulum (Nguyen & Juang 2013).

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2. METHOD

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2.1. Presentation of the wastewater treatment plant

The treatment in this station goes through several phases shown schematically Fig. 1.

2.2. Wastewater and industrial water purification processes in the station

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2.3. Mixing and equalization basin n° 1

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2.4. Rapid mixing and neutralization basin (physicochemical treatment)

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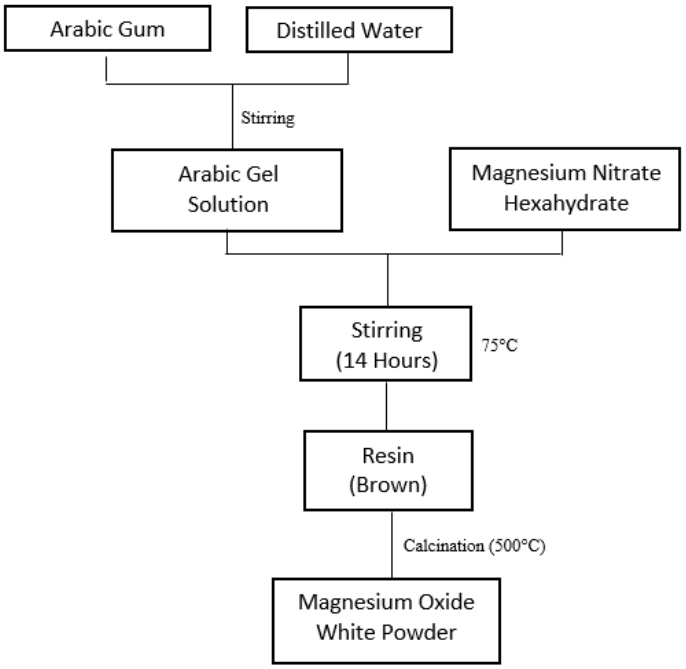

Fig. 1. Schematic diagram of the physicochemical treatment process in the station of the textile industrial unit.

Fig. 2. Photo of mixing and equalization basin N ° 1.

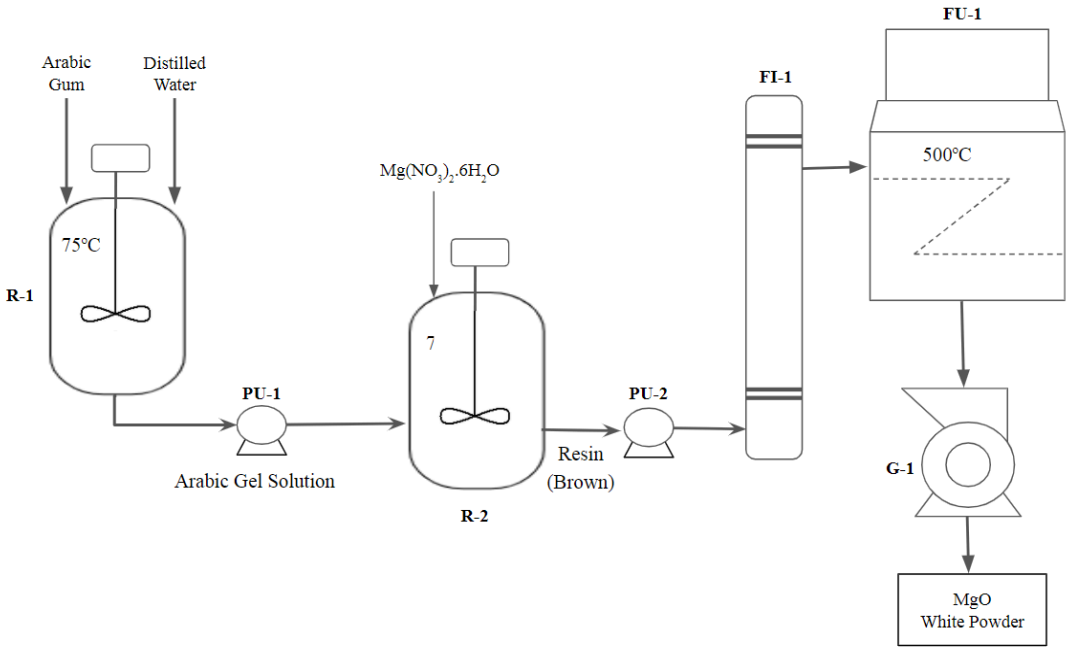

Fig. 3. Mixing and neutralization basin N °2.

$$GPM = \Sigma_{tr=1}^{tr} (S \,.\, \eta - RM)PC \,.\, Q \,.\, t \quad (1)$$

S is the total sales, RM is the total raw materials, PC is the production capacity, Q is the capacity of raw materials that are included and used in the process (kg/hour), and t is the production time.

- Internal Rate Return is a presentation that describes the average interest profit per year from all expenses and income of the same amount. If the Internal Rate Return is greater than the prevailing real interest (current bank loan interest), then the factory is considered profitable, but if the Internal Rate Return is less than the prevailing real interest (current bank loan interest), then the factory is considered a loss.

$$NPV = \Sigma_{tr=1}^{tr} \frac{C_o}{(1+i)^{tr}} - \text{Co} \quad (2)$$

Co is the total investment cost, Ct is the net cash inflows during the period, tr is the project time (in years), and *i* is the discount rate that can be obtained in alternative investments.

- Break-Even Point (BEP) is the minimum amount of product value that must be sold at a certain price to cover the total cost of production. Break-Even Point can be calculated by dividing fixed costs by profit.

- Payback Period (PBP) is a calculation to predict the length of time required for an investment to return the initial capital expenditure. In short, the Payback Period is calculated when the Cumulative Net Present Value reaches zero.

- Cumulative Net Present Value (CNPV) is the total value of Net Present Value (NPV) from the beginning of the factory construction until the factory ends operation.

$$NPV = \Sigma_{tr=1}^{tr} \left(\frac{R_t}{(1+i)^{tr}} \right) \quad (3)$$

3. RESULTS AND DISCUSSION

3.1. Procedure

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There are several assumptions used to ensure economic analysis. This assumption is needed to analyze and predict several possibilities that occur during the project. The assumptions are:

Economic evaluation is carried out to test the feasibility of the project. This economic evaluation is carried out by varying the value of raw materials, utilities, sales, salary, and taxes under several conditions. Variations in raw materials, utilities, sales, and salary were carried out at 50, 75, 100, 125, 150, 175, and 200%. Tax variations are carried out at 10, 25, 50, 75, and 100%.

Table 1. The COD and BOD values for the last week of the month (final clarification output).

FINAL CLARIFICATION OUTPUT									
Day N°1		**Day N°2**		**Day N°3**		**Day N°4**		**Day N°5**	
COD mg/	COD mg/	COD mg/	COD mg/	COD mg/	COD mg/	COD mg/	COD mg/	COD mg/	COD mg/
130	36	162	44	153	28	160	32	167	39

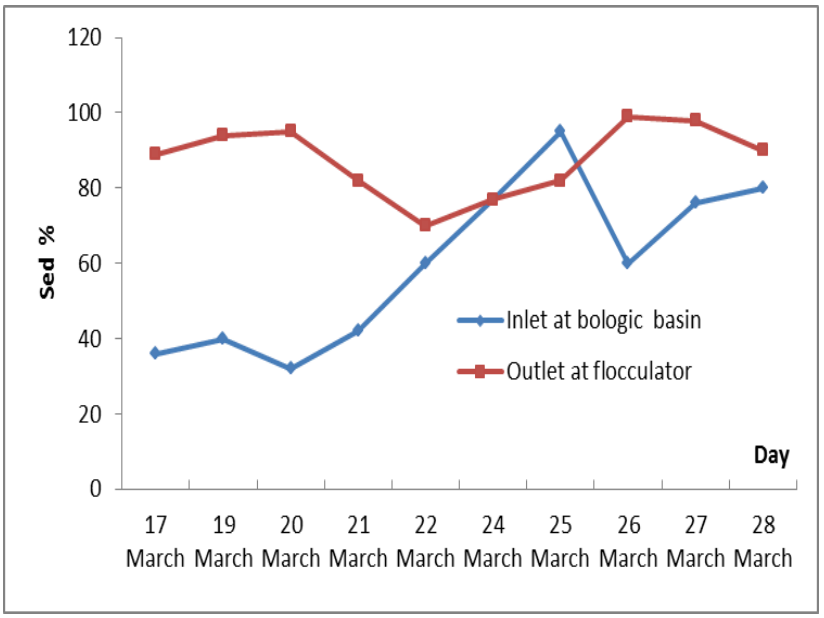

Fig. 4. Diagram analysis

Table 2. Table of a process flow diagram for the manufacture of magnesium oxide nanoparticles.

No	Symbol	Information
1	R-1	Reaktor-1
2	R-2	Reaktor-2
3	PU-1	Pump-1

4	PU-2	Pump-2
5	FI-1	Filtrasi-1

3.2. System Evaluation

3.2.1. Ideal Condition

Figure 3. shows a graph of the relationship between Cumulative Net Present Value/Total Investment Cost with respect to time. Donec ac orci lacinia, imperdiet leo ut, blandit metus. Nam ut ante in velit fringilla luctus sit amet in purus. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia curae; Nam venenatis ipsum metus, eget lacinia odio gravida ac. Sed quis porttitor nisi. Nam tincidunt dapibus dui, vitae pulvinar nulla tincidunt sit amet. Nullam at mauris nulla. Aliquam ullamcorper metus eu dui auctor pulvinar. Vestibulum id ligula at lacus auctor euismod. In Table 2. the kumulative jom Param Value/Total Investment Cost is negative from the first year to the second year. Then the value of Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed finibus, lectus ac ornare ornare, enim purus consectetur ex, non lobortis magna leo eget tortor. Phasellus efficitur imperdiet ultricies. Etiam tincidunt orci nec dui bibendum venenatis. Mauris convallis pellentesque lorem, et malesuada quam imperdiet eu. Praesent maximus nibh est, ac varius massa accumsan ut. Vivamus eget nisl a massa vestibulum porta vel sed nibh. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus.

4. CONCLUSION

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ACKNOWLEDGMENTS

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