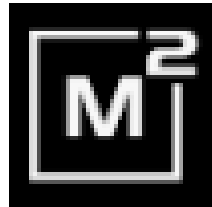




**“BUSINESS PLAN
SALT PRODUCTION
FOR ANIMAL CONSUMPTION IN 10 Kg BLOCKS”**



M2 – PROJECTS AND INTEGRALS SERVICES SPA



I.- OBJECTIVE OF THE PROJECT

This TECHNICAL ECONOMIC PROFILE seeks to add value to the salt extracted from the mining site and develop blocks of pure salt or with mineralized and vitamin variants for animal consumption.

II.- PRODUCT

SALT IN BLOCKS: Salt block enriched with minerals for animal feed (especially cattle).

- The salt licking block for cattle is produced by applying a pressure equivalent to 500 ton / m² to the mine salt obtained. In addition, various mineral elements (trace elements according to the requirements of each client) can be integrated into the salt mixture to compensate for and correct deficiencies in the salt and mineral content of feed and forage.
- The blocks are made with salt from mine, which presents less impurities than those made with sea salt.
- Its special manufacturing and compaction technology allows a great durability of the block without fragmenting. 10 kilos format each block
- Does not include binder additives to keep it compact.
- It gradually wears out by licking animals.
- 80 to 200 grams / day / beef is recommended, depending on the stage of growth in which the animal is.
- Resists rain, humidity and wind without alterations (unlike other types of blocks or formats in powder or granules).
- It improves milk production and helps prevent dry birth in cows.
- This product is sold in pallet and in 24-ton containers.



DATA SHEET

DIFFERENT PRODUCTS - DIFFERENT USES OF SALT

Chemical composition

- Sodium Chloride (NaCl) 94-97%;
- Magnesium oxide (MgO) 2.4%;
- Calcium carbonate (CaCO₃) 0.8%

Additives / Trace Elements

- Zinc (oxide) 5.000 mg / kg;
- Manganese (oxide) 1.500 mg / kg;
- Copper (pentahydrate sulfate) 750mg / kg;
- Iron (oxide) 400 mg / kg,
- Iodine (calcium iodate) 75 mg / kg,
- Cobalt (carbonate) 50 mg / kg,
- Selenium (sodium selenite) 25 mg / kg.

Applications

- Salt block enriched with minerals and micro-minerals of specific use for cattle, in any productive state, without restriction of age, weight or productive aptitude.
- Average consumption is 50 to 120 gr / day / animal, according to its productive status and age.
- It is possible to use it in other species (Equine, adult GOAT Cattle and wild ruminants).

III.- PRODUCTIVE PROCESS IN MINE



(1)



(2)



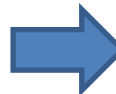
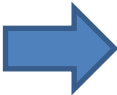
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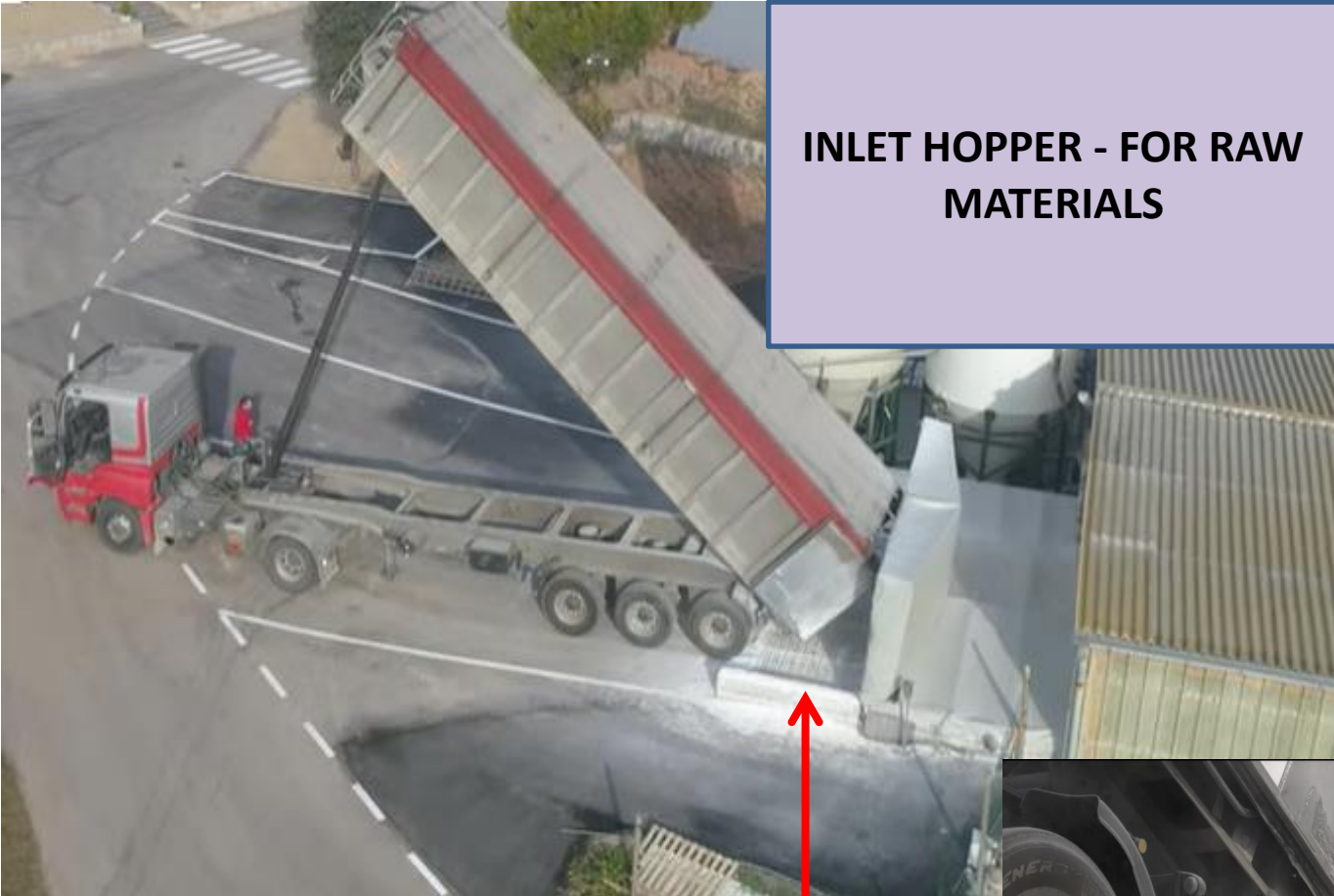


IV.- PRODUCTIVE PROCESS IN PLANT





V.- LAY OUT: PRODUCTION PROCESS LOADING AND UNLOADING



INLET HOPPER - FOR RAW MATERIALS

FEED HOPPER





VI.- PRESS MACHINE WITH PUMPING STATION AND ELECTRICAL CABINET



MEASURES
ELECTRIC CABINET

Length	800mm
Width	600mm
Height	1000 mm

MEDIDAS
MAQUINA PRENSA

Length	1700mm
Width	1200mm
Height	5000 mm

MEDIDAS
ESTACION DE BOMBEO

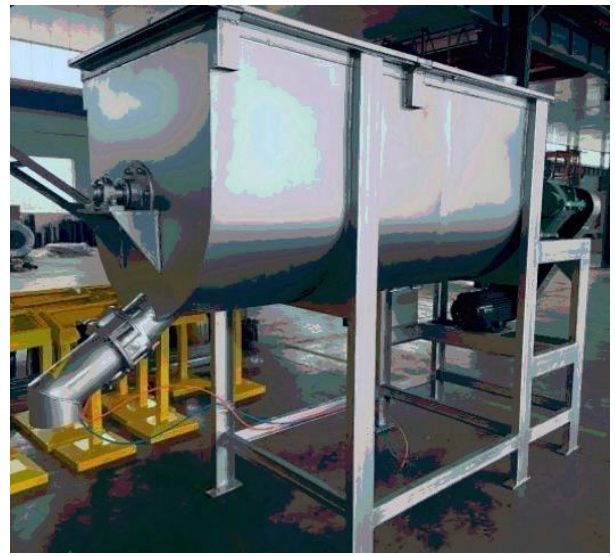
Length	1400mm
Width	1500mm
Height	1400 mm

VII.- AUXILIARY EQUIPMENT: CAP LIFT AND MIXER



ELEVATOR
PRESS FEEDER

Length	600mm
Width	2500mm
Height	5000mm



MEASURES
MIXER

Length	1800mm
Width	1000mm
Height	1600 mm

VIII.- PRESS EQUIPMENT

WORK UNIT
VIEW FROM THE FRONT



WORK UNIT
REAR VIEW





IX.- PACKER WITH FILM



TURNTABLE PLATFORM



X.- FINAL PRODUCT LOADING

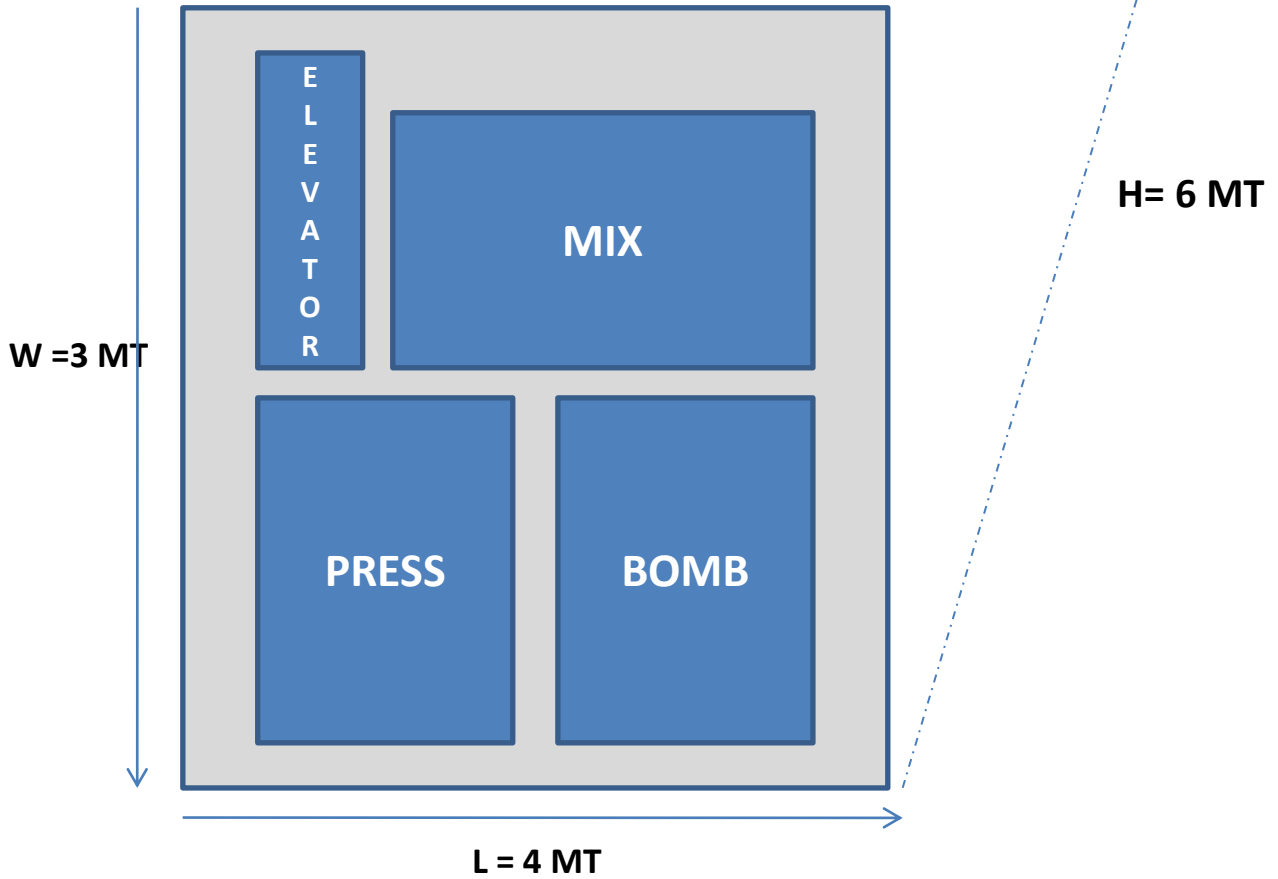




XI.- LAY OUT



WORK UNIT PRESS TEAM + AUXILIARY EQUIPMENT

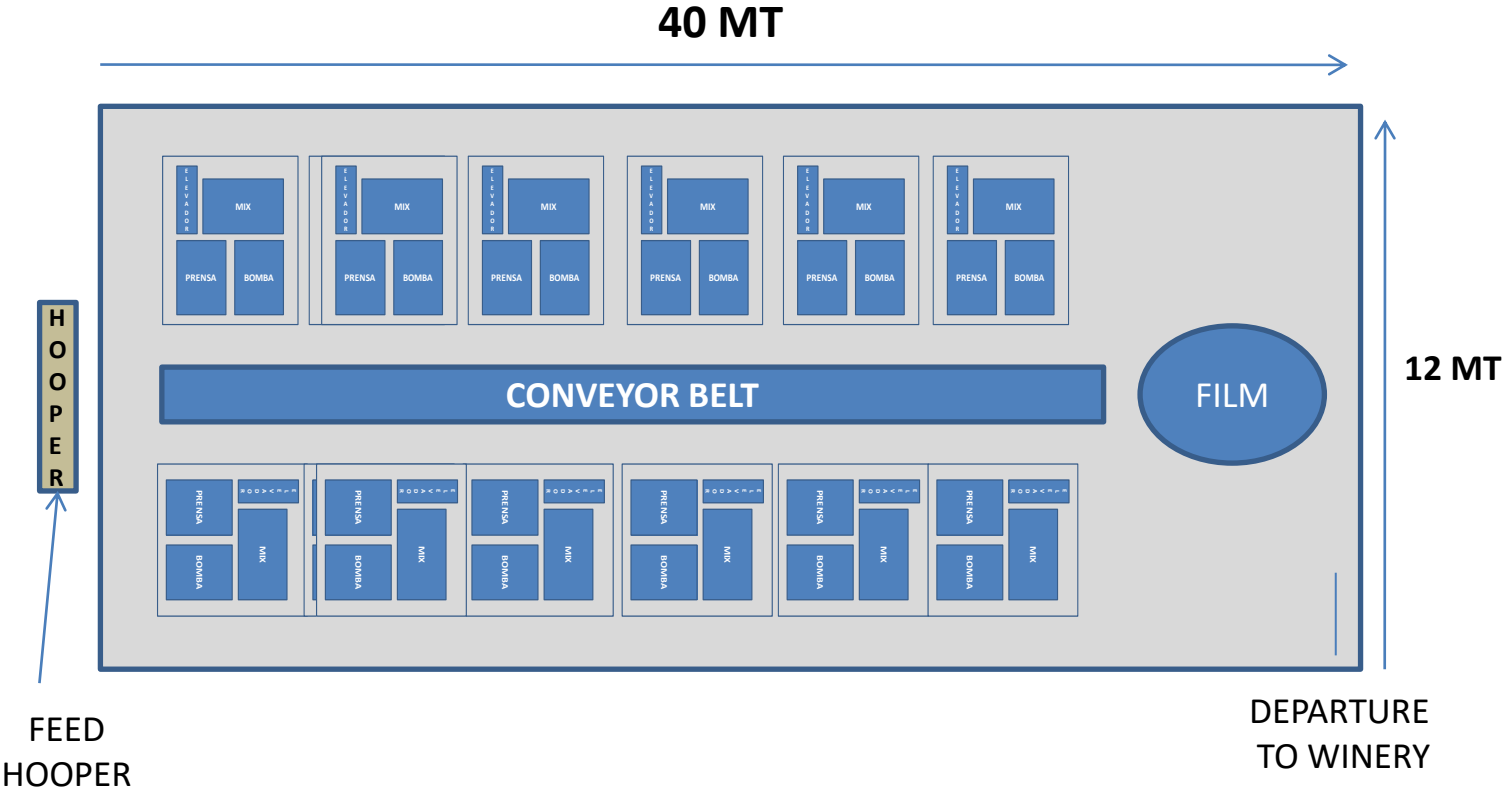




XII.- PRELIMINARY LAYOUT

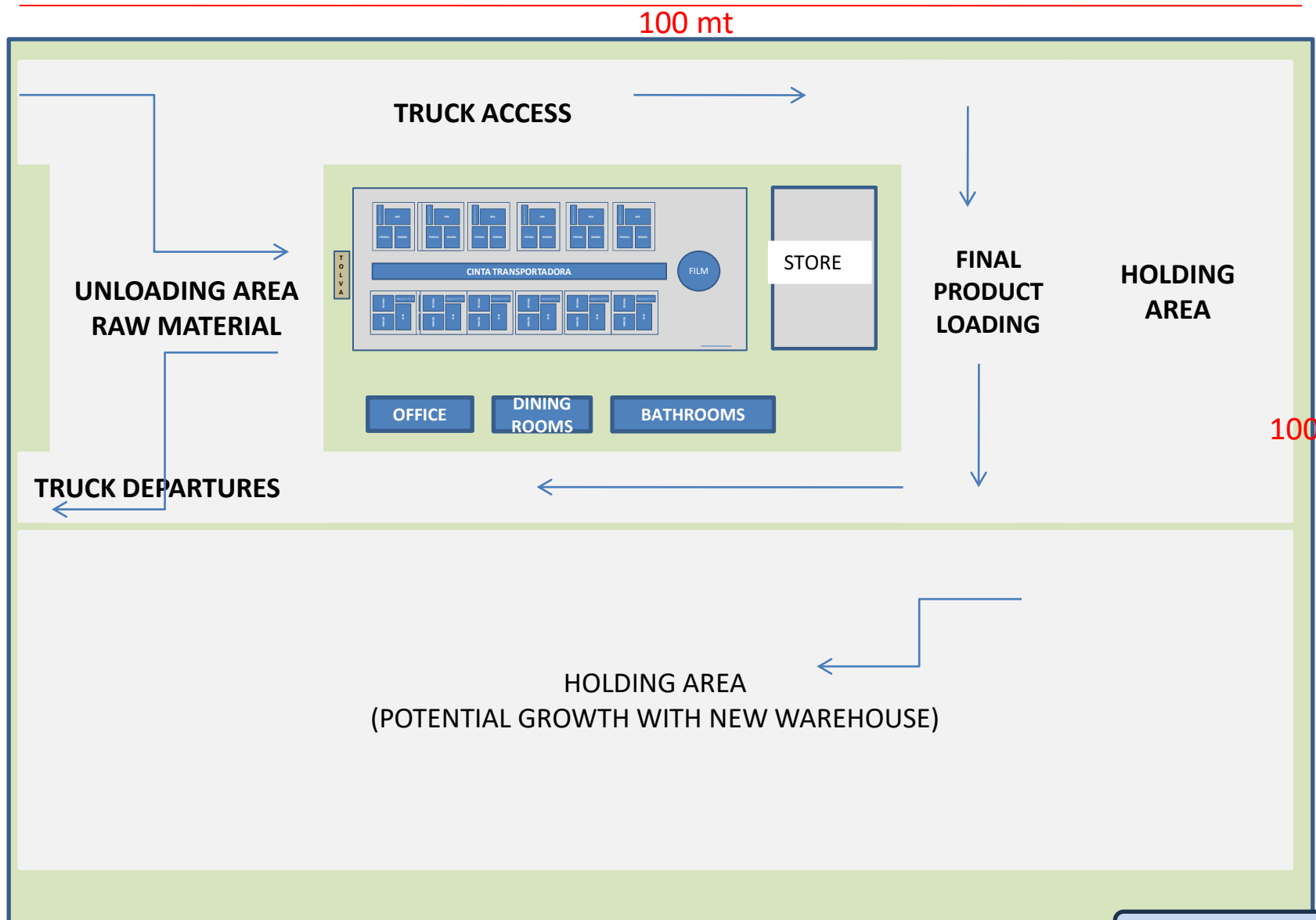


PRELIMINARY LAYOUT There are 4 ships of these characteristics





XIII.- PRELIMINARY LAYOUT OF LAND 1 HECTARE





XIV.- MARKET BACKGROUND



Background of the Market to serve		
No. Cows to attend	24.000.000	units
Average salt consumption	0,10	kilos of salt per cow per day
Average salt consumption	3,00	kilos of salt per cow per month
Salt requirement	72.000.000	Kilos of mine salt monthly
	72.000	Ton salt/monthly
	3.600	ton salt/day

Heads of cattle

Argentina	51.500.000
Uruguay	10.740.228
Paraguay	14.465.581
Brasil	215.199.488
Colombia	24.500.900
Perú	5.200.000
Ecuador	5.800.000
Chile	2.800.000
Costa Rica	1.575.900
Nicaragua	4.100.000
Honduras	1.800.000
El Salvador	1.200.000
Guatemala	2.200.000
Nicaragua	1.800.000
México	119.713.203
TOTAL	463.596.000

Regarding the Number of Blocks		
Total monthly kilos	72.000.000	Kilos of mine salt monthly
No. Monthly blocks	7.200.000	Total Blocks of 10 kilos/month
No. hours of work per day	20	Actual hours per day
Days worked per month	24	Effective monthly work days
No. Shifts	3	8 hour shifts
No. Blocks/day	300.000	Blocks a day
No. Blocks/shift	100.000	Blocks per 8 hour shift
No. Blocks/hour	14.286	Blocks for 7 effective hours of work
No. Blocks/minutes	238	Blocks per minute

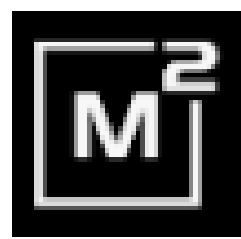
- The market to be addressed is to deliver salt in blocks to 24,000,000 head of cattle.
- With an average consumption of 120 grams per day, 72,400 tons/month of mine salt will be used.



Market price

10 kg block of natural rock salt without the addition of any type of additive. It is used in all species of livestock to supplement with salt, diets lacking in sodium.

3,47 Euros



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