

# Central Mud plant Emmen (CMP)

REYM is an industrial service provider. We support our customers in the field of industrial cleaning, transport and waste management, always acting from our mission 'Industrial Services our concern' and driven by our core values.



Central Mud Plant (CMP) is a storage and mixing facility for all kinds of water based and oil based drilling fluids, used for drilling and exploitation in the Gas and Oil industry and the development of geothermal energy in Europe.

**The total fluids storage capacity of the CMP is 3525 m3 and is divided in the following sections:**

## **OBM/Base Oil storage and mixing**

An outdoor (partly covered) OBM section, with 35 m3 mix pit, 2 circulation pumps and one shear-unit (125.000 liters/hour flow rate).

Storage capacity:

8 x 35 m3 OBM silos

5 x 55 m3 OBM silos

2 x 75 m3 Base Oil silos

2 x 35 m3 Brine silos for e.g. CaCl<sub>2</sub> brine

1 x 90 Mt Barite bulk silo

## **WBM/OBM storage**

42 WBM silos, each with 35 m3 capacity (total 1470m3). Divided in 7 sections of 6 silos, each section is equipped with a pump. 18 of these silos can also be used separated from WBM storage, for OBM (total 630 m3).

## **Base oil storage and WBM/OBM mixing/shearing**

A covered area, with a 60 m3 mix pit including a circulation pump and a shear-unit (180.000 liters/hour flow rate) for mixing WBM and OBM. From this mix pit the mixed fluids can be pumped to every storage section mentioned above.

2 x 50 m3 Base Oil silos

1 x Mix pit 60 m3 with shear-unit

1 x 60 Mt Barite bulk silo

### Brine storage

6 x 40 m3 Stainless steel silos, with circulation pump

2 x 40 m3 Aluminum tanks

1 x 100 m3 Aluminum tank for storage of brines e.g.

- Sodium chloride
- Calcium chloride
- Potassium chloride
- Sodiumsilicate

2 x 380 m3 storage with mobile pump

### Storage for chemicals

Over 5000 m2 outside storage for e.g. big bags, IBC, drums, and pallets.

1000 m2 inside/covered storage for chemicals and packaging which can be affected by weather conditions.

Storage (limited) for dangerous goods e.g. PGS-15.

### Mixing of water based fluids

The mixing of WBM and brines, happens inside the mixing hall of CMP. In this hall are the following mix pits available with total capacity of 240 m3:

- 4 x 45 m3
- 2 x 25 m3
- 1 x 10 m3 (for pills)
- 2 x 125 Mt Bulk silos for weighting agents e.g. barite
- 1 x 5 m3 (Mobile mix tank).

### Mud check

After mixing, the fluids need to be checked to be sure the values match the properties the customer requires.

CMP has its own quality mudlab with qualified staff, with thorough training and sufficient knowledge to work with and analyze WBM and OBM according API standards: API 13B-2 and API 13B-1.

### Why REYM CMP?

- Over 40 years experience in mixing, handling and storage of drilling and completion fluids.
- Cost savings through reconditioning and reuse of mud.
- Always 70 – 100 m3/hr. fresh/tap water available for mud/brine mixing.
- Filtration units for filtering brines (filter fineness on request).
- Reversed osmose unit to produce demineralized water (4m3/hour), storage capacity is 50 m3.
- 70 mt weighbridge, to control in and out movements of trucks with fluids and chemicals.
- 24/7 Call out service, always 2 operators available, every day of the year.
- CMP can assist in purchasing chemicals and brines for customers.
- REYM CMP has it's own custom number, for storage of excise goods like base oil.

If you have any questions, considering mixing, handling and storage of drilling and completion fluids, please call us. You're always welcome to pay us a visit for a tour on our plant.

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