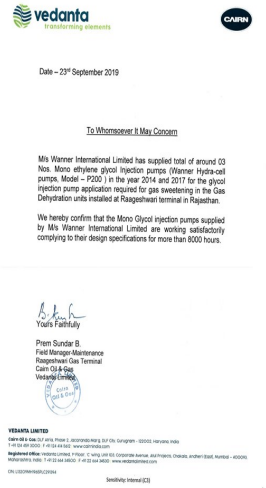
Application story

WANNER™
HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES



vedanta
transforming elements

CAIRN

Date – 23rd September 2019

To Whomsoever It May Concern

M/s Wanner International Limited has supplied total of around 03 Nos. Mono ethylene glycol injection pumps (Wanner Hydra-cell pumps, Model – P200) in the year 2014 and 2017 for the glycol injection pump application required for gas sweetening in the Gas Dehydration units installed at Rageshwari terminal in Rajasthan.

We hereby confirm that the Mono Glycol injection pumps supplied by M/s Wanner International Limited are working satisfactorily complying to their design specifications for more than 8000 hours.

Yours Faithfully

Prem Sundar B
Field Manager-Maintenance
Rageshwari Gas Terminal
Cairn Oil & Gas
Vedanta Limited

VEDANTA LIMITED

Sensitivity: Internal (C3)

Gas Drying

Location	India (Installations: 2014 & 2017)	**Hydra-Cell model**	P200NSGSSB05S
Type of application	Gas Drying	**Flow rate**	40 - 70 L/hr (10.5 - 18.5 Gal/hr)
Liquid	Tri-Ethylene Glycol (TEG) Mono-Ethylene Glycol	**Pressure**	55 Bar (800 psi)

Application details

Hydra-Cell® Pumps Ethylene Glycols

Cairn India's Rageshwari Gas Terminal treats gas from other Cairn sites and is the only plant in Rajasthan that solely processes gas.

The natural gas contains impurities, which are removed in primary and secondary clarifiers, and moisture, which is removed by processing with glycol injection. The glycols are introduced at high pressure to overcome the natural gas pressure.

An accurate controllable, low pulsing flow is essential as too much glycol will absorb more methane which cannot be reintroduced into the gas stream and too little will not dry the gas adequately.

Hydra-Cell P200 metering pump was selected in preference to a locally manufactured single diaphragm pump because it gives a virtually pulse-less flow and is more efficient, consuming only 0.35kW per hour.

The recirculating glycol can also contain impurities and particles which, of course, pose no problem for Hydra-cell pumps.

Advantages of Hydra-Cell pump on this application

Hydra-Cell was chosen for this application for the following reasons:

- Ability to offer a virtually pulse-less flow, without the need for pulsation dampeners.
- Ability to handle this particle laden liquid with ease.
- Known reliability.

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