# Site Information & Scope of Work

**Site Information**

Site Name : Elenga
Site Code : 40-ELE-500/500M

Site Address : To be provided later.

Coordinates : N 24° 20' 18.5 " : E 89° 55' 34.2 "
** Coordinates are surveyed by handy type GPS and might be inaccurate.*

Site Type

| | | | |
|---|---|---|---|
| ☐ | Control Center | ☑ | Master Telemetry Station |
| ☐ | Gas Field | ☐ | Operating Company Terminal (OCT) |
| ☐ | CGS (City Gas Station) | ☐ | Power station/Fertilizer Factory |
| ☐ | Compressor Station | ☐ | TBS (Town Bordering Station) |
| ☐ | Pig Station | ☐ | DRS (District Regulating Station) |
| ☐ | MS (Metering Station) | ☑ | GMS (Gas Manifold Station) |
| ☐ | VS (Valve Station) | | |

Site Status
- ☑ Originally covered by The Existing System and shall be covered by The New System.
- ☐ Currently not covered by The Existing System but shall be covered by The New System.
- ☐ Upcoming site which will be covered by The New System after the completion of the Project.

Operating Company : TGTDCL

Remarks : Additional instruments are required at this site.



**Scope of Work**

Works checked off hereinafter shall be carried out for the Project

**1. SCADA System**

■ : RTU

☐ RTU without display monitor
Design, supply and install a self-standing IP65 enclosure equipped with following items:
- RTU
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☑ RTU with display monitor
Design, supply and install a self-standing IP65 enclosure equipped with following items:
- RTU
- Display monitor
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☐ RTU (design & supply only)
Design and supply self-standing IP65 enclosure equipped with following items:
- RTU
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☑ Interface with flow computer
Make provision for:
- Installation of the flow computer which shall be prepared by GTCL in the enclosure
- Interface between RTU and the said flow computer

☐ Interface with receiver for turbine meter
Install the existing receiver for turbine meter(s) in the RTU enclosure and interface it (them) via communication (MODBUS) cable.

☐ Interface with other system
Provide the interface between RTU and other system such as PLC or PC operated by the operating company including all communication cables between RTU and other system.

☐ Cable between RTU and Master Telemetry Station
Design, supply and install the cable between RTU and Master Telemetry Station in case RTU and Master Telemetry Station are located in the same site.

■ : Instruments

☑ Existing instruments
Re-use the existing instruments and cables.

*Note:*
*Existing instruments and cables shall be serviced by the Employer.*

☑ New Instruments
Design, supply and install the following instruments.
Output signals from instruments are to be cabled via field junction box to the RTU.

■ : Pressure transmitters Q'ty

☐ Design, supply and intall:
- Pressure transmitter on the existing spare tapping point
- Tubing between tapping point and transmitter

☑ Prepare the tapping point for the pressure transmitter, and design, supply and install: [ 1 ]
- Pressure transmitter on the prepared tapping point
- Tubing between tapping point and transmitter

■ : Differential pressure transmitters Q'ty

☐ Design, supply and install:
- Differential pressure transmitter on the existing spare tapping point
- Tubing between tapping point and transmitter

☑ Prepare the tapping point for the differential pressure transmitter, and design, supply and install: [ 2 ]
- Differential pressure transmitter on the tapping point
- Tubing between tapping point and transmitter

■ : Temprature transmitters Q'ty

☑ Design, supply and install: [ 1 ]
- Thermowell in the spare boss on the pipe
- Resistance temperature detector complete with a head mounted transmitter into the thermowell



■ : Limit switch Q'ty

☐ Design, supply and install the limit switch on the existing shutdown valve for valve position monitoring.

☐ Pick up Signal from the Existing Turbine Meter Q'ty
Supply and install a dual pulse output pickup head in place of the single pulse output pickup in the existing turbine flowmeter sensor head. The output signal from the existing turbine flowmeter to be cabled via junction box to RTU.

☑ Local Field Instrument Junction Box Q'ty
Design, supply and install an Intrinsic safety junction box. The junction box to be suitable for glanding appropriate cables. [ 1 ]

☑ Instrument Cables
Design, supply, install the instrument cables from the field instruments to RTU via junction box including each cable termination with gland.

## 2. Communication System

■ : Master Telemetry Station (Former Microwave Radio Station)

☑ Removal of existing communication system
Remove and dispose following existing items used for microwave transmission system:
- Microwave equipment/facilities in the radio equipment room
- Antenna mounted on the existing tower
- Cables between radio equipment room and existing tower

☑ Radio equipment to connect Master Telemetry Station with Provider's Access Point
Design, supply and install IP radio equipment at existing radio equipment room to connect Master Telemetry Station with nearest Provider's Access Point (BTCL's AP), including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☑ Master telemetry equipment
Design, supply and install master telemetry equipment at existing radio equipment room to connect with slave telemetry equipment, including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☐ Radio equipment to connect Master Telemetry Station with OCT
Design, supply and install IP radio equipment at radio equipment room to connect Master Telemetry Station with Operating Company Terminal (OCT) at another site, including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☑ Radio equipment to connect Provider's Access Point with Master Telemetry Station
Design, supply and install IP radio equipment at nearest BTCL's access point to connect BTCL's AP with Master Telemetry Station, including all necessary cables, accessories and the antenna with monopole.

☑ Network equipment
Design, supply and install all necessary Network equipment at radio equipment room of Master telemetry station as well as at nearest BTCL's access point.

☐ Network cable to OCT
Design, supply and install network cable between Master Telemetry Station and OCT which shall be installed within the same site.

■ : IP PBX System

☐ IP PBX main unit
Design, supply and install IP PBX main unit with necessary accessories and spare parts.

☑ Extension telephone set Q'ty
Design, supply and install extension telephone set(s) with required cables. [ 2 ]



## 3. Electrical Works

■ : Power Supply to RTU

☑ Electrical power shall be supplied to RTU from existing PDB, and existing power cable shall be re-used.

☐ Design, supply and install MCB box for the power supply to RTU including all cables from existing PDB to MCB box and from MCB box to RTU.

☐ Design, supply and intall power controller and power cable to RTU at remote site where electrical power is supplied from existing solar panel.

☐ Design, supply and install new solar panel, power controller and power cable to RTU.

■ : Backup Batteries for Radio Equipment at Master Station

☑ Remove and dispose existing backup batteries for radio equipment.
Supply & install new backup batteries with charger suitable to backup new radio equipment for 48 hours.

■ : Replacement of Emergency Generator

☑ Remove and dispose existing emergency generator.
Supply & install new emergency generator suitable for power supply to related equipment and facilities.

■ : Replacement of Air conditioner at Radio room of Master Station

☑ Remove and dispose existing window type air conditioner at raido room, and Supply & install new air conditioner suitably selected to maintain the specified temperature and humidity of radio room.

## 4. Civil Works

■ : Foundation & Sunshade for RTU

☑ Re-use existing foundation & sunshade for RTU
Examine the condition of existing foundation and sunshade for RTU and repair the defects, if any.

☐ Provide new foundation & sunshade for RTU
Design and construct the foundation and sunshade for new RTU at suitable location. The foundation and sunshade should be designed to suitably accommodate new RTU.

■ : Instrument Stand with Foundation & Sunshade

☑ Re-use existing Instrument stand(s) with foundation & sunshade
Examine the condition of existing Instrument stand(s) with foundation & sunshade and repair the defects, if any.

☑ Provide new Instrument stand(s) with foundation & sunshade
Design and construct the Instrument stand(s) with foundation & sunshade at suitable location. It should be designed to suitably accommodate the required number of instruments and explosion proof instrument field junction box.

■ : Refurbishment of Existing Radio Building/Radio Equipment Room

☐ Refurbishment of Radio Building
Examin the condition of the whole existing radio building and repair the defects if any.
Clean and touch-up the external and internal finish of the whole existing radio building.

☑ Refurbishment of Radio Equipment Room
Examine the condition of existing rooms where radio equipment and backup batteries are installed and repair the defects if any.
Clean and touch-up the internal finish of the said rooms.

☐ Cleaning of Radio Equipment Room
Clean and tidy up the existing rooms where radio equipment and backup batteries are installed.



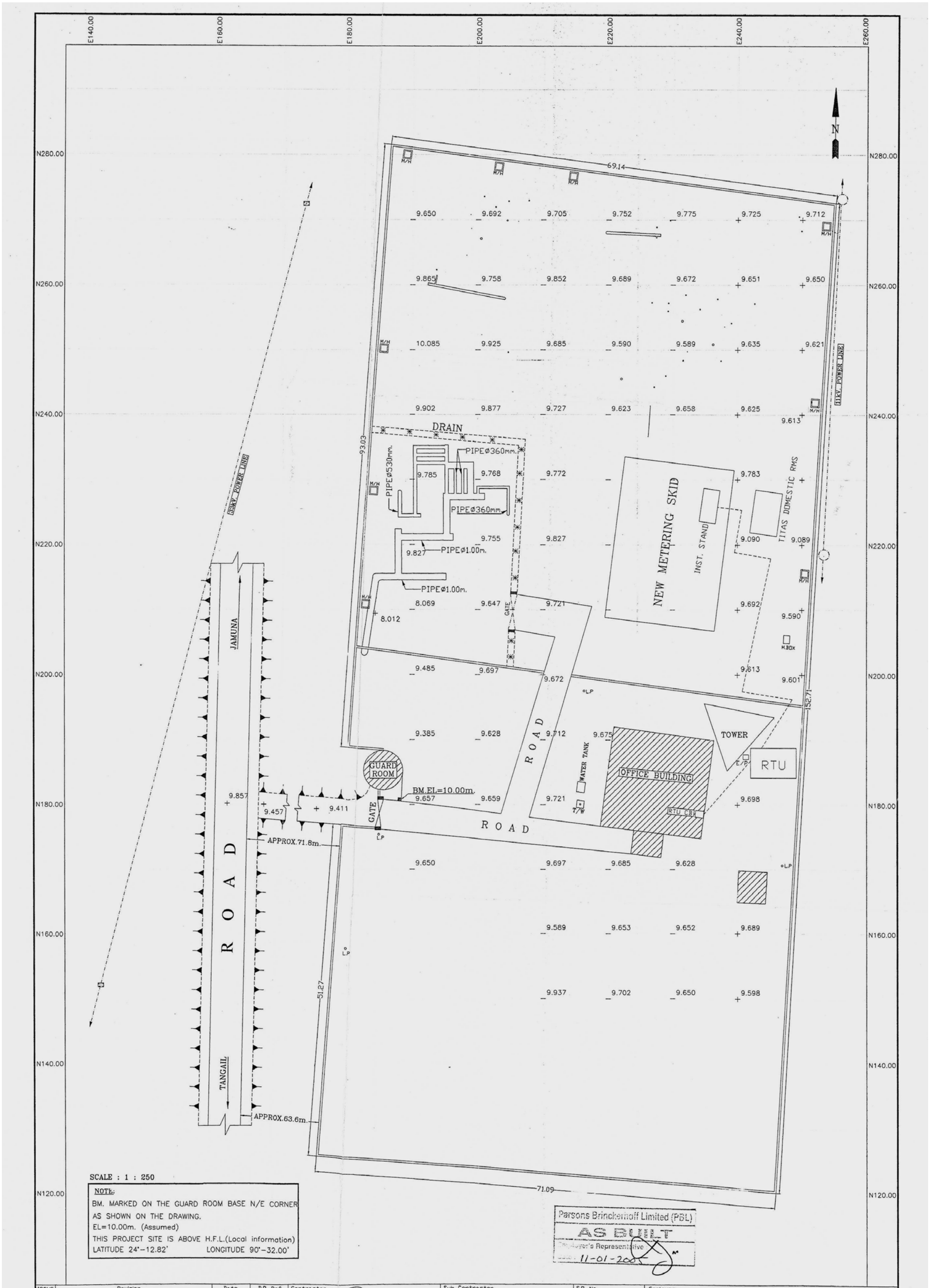
## 5. Site Photo

Existing Building where radio equipment room is located.

Existing RTU (cable link)

## 6. Site Layout

See attached Layout Plan.




SCALE : 1 : 250

NOTE:
BM. MARKED ON THE GUARD ROOM BASE N/E CORNER AS SHOWN ON THE DRAWING.
EL=10.00m. (Assumed)
THIS PROJECT SITE IS ABOVE H.F.L.(Local information)
LATITUDE 24°–12.82' LONGITUDE 90°–32.00'

Parsons Brinckerhoff Limited (PBL)
AS BUILT
Employer's Representative
11-01-200

| ISSUE | Revision | Date | D.O. Ref |
|---|---|---|---|
| A | ISSUED FOR DESIGN APPROVAL | | - |
| B | ISSUED FOR DESIGN APPROVAL | 27-05-99 | - |
| C | ISSUED FOR DESIGN APPROVAL | 10-11-04 | - |

Contractor: CONTROLS Ltd, Rowley Drive, COVENTRY, West Midlands CV3 4FH

CONTRACT DRAWING APPROVAL
Drawing Status: DESIGN APPROVAL
REDLINED CHANGES | APPROVED NO CHANGES
PRINT NAME:
SIGNED: DATE:

Sub Contractor: SURVEY CORPORATION
S.O. No.
Drawing Title: SITE CODE : 508, SITE NAME : ELENGA
Drawing No. 508-60-72 | Rev B | Sheet | Drig. Size A1

| | Drawn | Checked | Approved |
|---|---|---|---|
| BY | HASANAT | M. A.HADAYET | M.A. HAYAT |
| Date | 21-03-'99 | 21-03-'99 | 21-03-'99 |

Employer: GAS TRANSMISSION COMPANY Ltd (GTCL)

THE BANGLADESH GAS INFRASTRUCTURE DEVELOPMENT PROJECT. SUPERVISORY CONTROL, DATA ACQUISITION AND TELECOMMUNICATIONS SYSTEMS.

Consultant: PB Technologies Ltd.
Employer Contract No: GTCL/RL-1109/C2

# Site Information & Scope of Work

**Site Information**

Site Name : TITAS Mymensing Office
Site Code : 40-MYM-500M

Site Address : To be provided later.

Coordinates : N 24° 43' 17.6 " : E 90° 24' 37.6 "
** Coordinates are surveyed by handy type GPS and might be inaccurate.*

Site Type

| | | | |
|---|---|---|---|
| ☐ | Control Center | ☑ | Master Telemetry Station |
| ☐ | Gas Field | ☐ | Operating Company Terminal (OCT) |
| ☐ | CGS (City Gas Station) | ☐ | Power station/Fertilizer Factory |
| ☐ | Compressor Station | ☐ | TBS (Town Bordering Station) |
| ☐ | Pig Station | ☐ | DRS (District Regulating Station) |
| ☐ | MS (Metering Station) | ☐ | GMS (Gas Manifold Station) |
| ☐ | VS (Valve Station) | | |

Site Status

☐ Originally covered by The Existing System and shall be covered by The New System.
☑ Currently not covered by The Existing System but shall be covered by The New System.
☐ Upcoming site which will be covered by The New System after the completion of the Project.

Operating Company : TGTDCL

Remarks :



**Scope of Work**

Works checked off hereinafter shall be carried out for the Project

**1. SCADA System**

■ : No SCADA System at this site.

## 2. Communication System

■ : Master Telemetry Station (Former Microwave Radio Station)

☐ Removal of existing communication system
Remove and dispose following existing items used for microwave transmission system:
- Microwave equipment/facilities in the radio equipment room
- Antenna mounted on the existing tower
- Cables between radio equipment room and existing tower

☑ Radio equipment to connect Master Telemetry Station with Provider's Access Point
Design, supply and install IP radio equipment at existing radio equipment room to connect Master Telemetry Station with nearest Provider's Access Point (BTCL's AP), including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☑ Master telemetry equipment
Design, supply and install master telemetry equipment at existing radio equipment room to connect with slave telemetry equipment, including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☐ Radio equipment to connect Master Telemetry Station with OCT
Design, supply and install IP radio equipment at radio equipment room to connect Master Telemetry Station with Operating Company Terminal (OCT) at another site, including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☑ Radio equipment to connect Provider's Access Point with Master Telemetry Station
Design, supply and install IP radio equipment at nearest BTCL's access point to connect BTCL's AP with Master Telemetry Station, including all necessary cables, accessories and the antenna with monopole.

☑ Network equipment
Design, supply and install all necessary Network equipment at radio equipment room of Master telemetry station as well as at nearest BTCL's access point.

☐ Network cable to OCT
Design, supply and install network cable between Master Telemetry Station and OCT which shall be installed within the same site.

■ : IP PBX System

☐ IP PBX main unit
Design, supply and install IP PBX main unit with necessary accessories and spare parts.

☑ Extension telephone set Q'ty
Design, supply and install extension telephone set(s) with required cables. [ 2 ]



## 3. Electrical Works

■ : Backup Batteries for Radio Equipment at Master Station

☑ Remove and dispose existing backup batteries for radio equipment.
Supply & install new backup batteries with charger suitable to backup new radio equipment for 48 hours.

■ : Replacement of Air conditioner at Radio room of Master Station

☑ Remove and dispose existing window type air conditioner at raido room, and Supply & install new air conditioner suitably selected to maintain the specified temperature and humidity of radio room.

## 4. Civil Works

■ : Refurbishment of Existing Radio Building/Radio Equipment Room

☐ Refurbishment of Radio Building
Examin the condition of the whole existing radio building and repair the defects if any.
Clean and touch-up the external and internal finish of the whole existing radio building.

☑ Refurbishment of Radio Equipment Room
Examine the condition of existing rooms where radio equipment and backup batteries are installed and repair the defects if any.
Clean and touch-up the internal finish of the said rooms.

☐ Cleaning of Radio Equipment Room
Clean and tidy up the existing rooms where radio equipment and backup batteries are installed.

## 5. Site Photo

Existing building where radio equipment room is located.



## 6. Site Layout

Site layout shall be provided later.

# Site Information & Scope of Work

**Site Information**

Site Name : RPCL PS Mymensing
Site Code : 40-MYM-501

Site Address : To be provided later.

Coordinates : N 24° 45' 47.9 " : E 90° 25' 06.4 "
** Coordinates are surveyed by handy type GPS and might be inaccurate.*

Site Type

| | | | |
|---|---|---|---|
| ☐ | Control Center | ☐ | Master Telemetry Station |
| ☐ | Gas Field | ☐ | Operating Company Terminal (OCT) |
| ☐ | CGS (City Gas Station) | ☑ | Power station/Fertilizer Factory |
| ☐ | Compressor Station | ☐ | TBS (Town Bordering Station) |
| ☐ | Pig Station | ☐ | DRS (District Regulating Station) |
| ☐ | MS (Metering Station) | ☐ | GMS (Gas Manifold Station) |
| ☐ | VS (Valve Station) | | |

Site Status

☐ Originally covered by The Existing System and shall be covered by The New System.
☑ Currently not covered by The Existing System but shall be covered by The New System.
☐ Upcoming site which will be covered by The New System after the completion of the Project.

Operating Company : TGTDCL

Remarks : _____



**Scope of Work**

Works checked off hereinafter shall be carried out for the Project

**1. SCADA System**

■ : RTU

☑ RTU without display monitor
Design, supply and install a self-standing IP65 enclosure equipped with following items:
- RTU
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☐ RTU with display monitor
Design, supply and install a self-standing IP65 enclosure equipped with following items:
- RTU
- Display monitor
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☐ RTU (design & supply only)
Design and supply self-standing IP65 enclosure equipped with following items:
- RTU
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☐ Interface with flow computer
Make provision for:
- Installation of the flow computer which shall be prepared by GTCL in the enclosure
- Interface between RTU and the said flow computer

☐ Interface with receiver for turbine meter
Install the existing receiver for turbine meter(s) in the RTU enclosure and interface it (them) via communication (MODBUS) cable.

☐ Interface with other system
Provide the interface between RTU and other system such as PLC or PC operated by the operating company including all communication cables between RTU and other system.

☐ Cable between RTU and Master Telemetry Station
Design, supply and install the cable between RTU and Master Telemetry Station in case RTU and Master Telemetry Station are located in the same site.

■ : Instruments

☐ Existing instruments
Re-use the existing instruments and cables.

*Note:*
*Existing instruments and cables shall be serviced by the Employer.*

☑ New Instruments
Design, supply and install the following instruments.
Output signals from instruments are to be cabled via field junction box to the RTU.

■ : Pressure transmitters Q'ty

☐ Design, supply and intall:
- Pressure transmitter on the existing spare tapping point
- Tubing between tapping point and transmitter

☑ Prepare the tapping point for the pressure transmitter, and design, supply and install: [ 1 ]
- Pressure transmitter on the prepared tapping point
- Tubing between tapping point and transmitter

■ : Differential pressure transmitters Q'ty

☐ Design, supply and install:
- Differential pressure transmitter on the existing spare tapping point
- Tubing between tapping point and transmitter

☑ Prepare the tapping point for the differential pressure transmitter, and design, supply and install: [ 2 ]
- Differential pressure transmitter on the tapping point
- Tubing between tapping point and transmitter

■ : Temprature transmitters Q'ty

☑ Design, supply and install: [ 1 ]
- Thermowell in the spare boss on the pipe
- Resistance temperature detector complete with a head mounted transmitter into the thermowell



■ : Limit switch Q'ty

☐ Design, supply and install the limit switch on the existing shutdown valve for valve position monitoring.

☐ Pick up Signal from the Existing Turbine Meter Q'ty
Supply and install a dual pulse output pickup head in place of the single pulse output pickup in the existing turbine flowmeter sensor head. The output signal from the existing turbine flowmeter to be cabled via junction box to RTU.

☑ Local Field Instrument Junction Box Q'ty [ 1 ]
Design, supply and install an Intrinsic safety junction box. The junction box to be suitable for glanding appropriate cables.

☑ Instrument Cables
Design, supply, install the instrument cables from the field instruments to RTU via junction box including each cable termination with gland.

## 2. Communication System

■ : Slave Telemetry System

☐ Removal of existing slave telemetry equipment
Remove and dispose the existing slave telemetry system including antenna and cable.

☑ Slave Telemetry Equipment
Design, supply and install new slave telemetry equipment in the RTU enclosure, including cables and antenna.

☐ Slave Telemetry Equipment (design & supply only)
Design and supply new slave telemetry equipment in the RTU enclosure, including cables and antenna.

☐ Existing monopole
Re-use existing monople to mount new antenna.

☑ New monopole
Design, supply and install new monopole with foundation to mount new antenna.

☐ New monopole (design & supply only)
Design and supply new monopole to mount new antenna.



## 3. Electrical Works

■ : Power Supply to RTU

☐ Electrical power shall be supplied to RTU from existing PDB, and existing power cable shall be re-used.

☑ Design, supply and install MCB box for the power supply to RTU including all cables from existing PDB to MCB box and from MCB box to RTU.

☐ Design, supply and intall power controller and power cable to RTU at remote site where electrical power is supplied from existing solar panel.

☐ Design, supply and install new solar panel, power controller and power cable to RTU.

## 4. Civil Works

■ : Foundation & Sunshade for RTU

☐ Re-use existing foundation & sunshade for RTU
Examine the condition of existing foundation and sunshade for RTU and repair the defects, if any.

☑ Provide new foundation & sunshade for RTU
Design and construct the foundation and sunshade for new RTU at suitable location. The foundation and sunshade should be designed to suitably accommodate new RTU.

■ : Instrument Stand with Foundation & Sunshade

☐ Re-use existing Instrument stand(s) with foundation & sunshade
Examine the condition of existing Instrument stand(s) with foundation & sunshade and repair the defects, if any.

☑ Provide new Instrument stand(s) with foundation & sunshade
Design and construct the Instrument stand(s) with foundation & sunshade at suitable location. It should be designed to suitably accommodate the required number of instruments and explosion proof instrument field junction box.

## 5. Site Photo

Site view 1

Site view 2



## 6. Site Layout

Site layout shall be provided later.

# Site Information & Scope of Work

**Site Information**

Site Name : Tarakandi
Site Code : 40-TRK-500/500M

Site Address : To be provided later.

Coordinates : N 24° 41' 03.5 " : E 89° 49' 42.2 "
** Coordinates are surveyed by handy type GPS and might be inaccurate.*

Site Type

| | | | |
|---|---|---|---|
| ☐ | Control Center | ☑ | Master Telemetry Station |
| ☐ | Gas Field | ☐ | Operating Company Terminal (OCT) |
| ☐ | CGS (City Gas Station) | ☐ | Power station/Fertilizer Factory |
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| ☐ | Pig Station | ☑ | DRS (District Regulating Station) |
| ☐ | MS (Metering Station) | ☐ | GMS (Gas Manifold Station) |
| ☐ | VS (Valve Station) | | |

Site Status
- ☑ Originally covered by The Existing System and shall be covered by The New System.
- ☐ Currently not covered by The Existing System but shall be covered by The New System.
- ☐ Upcoming site which will be covered by The New System after the completion of the Project.

Operating Company : TGTDCL

Remarks : Additional instruments are required at this site.



**Scope of Work**

Works checked off hereinafter shall be carried out for the Project

**1. SCADA System**

■ : RTU

☑ RTU without display monitor
Design, supply and install a self-standing IP65 enclosure equipped with following items:
- RTU
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☐ RTU with display monitor
Design, supply and install a self-standing IP65 enclosure equipped with following items:
- RTU
- Display monitor
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☐ RTU (design & supply only)
Design and supply self-standing IP65 enclosure equipped with following items:
- RTU
- Instrumentation and communication equipment
- Backup battery system with charger for 24 hours
- Lighting
- Anti-condensation heater
- Earthing and lightning protection
- All internal wiring
- Other equipment to satisfy the functional requirements

☐ Interface with flow computer
Make provision for:
- Installation of the flow computer which shall be prepared by GTCL in the enclosure
- Interface between RTU and the said flow computer

☐ Interface with receiver for turbine meter
Install the existing receiver for turbine meter(s) in the RTU enclosure and interface it (them) via communication (MODBUS) cable.

☐ Interface with other system
Provide the interface between RTU and other system such as PLC or PC operated by the operating company including all communication cables between RTU and other system.

☐ Cable between RTU and Master Telemetry Station
Design, supply and install the cable between RTU and Master Telemetry Station in case RTU and Master Telemetry Station are located in the same site.

■ : Instruments

☐ Existing instruments
Re-use the existing instruments and cables.

*Note:*
*Existing instruments and cables shall be serviced by the Employer.*

☑ New Instruments
Design, supply and install the following instruments.
Output signals from instruments are to be cabled via field junction box to the RTU.

■ : Pressure transmitters Q'ty

☐ Design, supply and intall:
- Pressure transmitter on the existing spare tapping point
- Tubing between tapping point and transmitter

☑ Prepare the tapping point for the pressure transmitter, and design, supply and install: [ 1 ]
- Pressure transmitter on the prepared tapping point
- Tubing between tapping point and transmitter

■ : Differential pressure transmitters Q'ty

☐ Design, supply and install:
- Differential pressure transmitter on the existing spare tapping point
- Tubing between tapping point and transmitter

☑ Prepare the tapping point for the differential pressure transmitter, and design, supply and install: [ 2 ]
- Differential pressure transmitter on the tapping point
- Tubing between tapping point and transmitter

■ : Temprature transmitters Q'ty

☑ Design, supply and install: [ 1 ]
- Thermowell in the spare boss on the pipe
- Resistance temperature detector complete with a head mounted transmitter into the thermowell



■ : Limit switch Q'ty

☐ Design, supply and install the limit switch on the existing shutdown valve for valve position monitoring.

☐ Pick up Signal from the Existing Turbine Meter Q'ty
Supply and install a dual pulse output pickup head in place of the single pulse output pickup in the existing turbine flowmeter sensor head. The output signal from the existing turbine flowmeter to be cabled via junction box to RTU.

☑ Local Field Instrument Junction Box Q'ty
Design, supply and install an Intrinsic safety junction box. The junction box to be suitable for glanding appropriate cables. [ 1 ]

☑ Instrument Cables
Design, supply, install the instrument cables from the field instruments to RTU via junction box including each cable termination with gland.

## 2. Communication System

■ : Master Telemetry Station (Former Microwave Radio Station)

☑ Removal of existing communication system
Remove and dispose following existing items used for microwave transmission system:
- Microwave equipment/facilities in the radio equipment room
- Antenna mounted on the existing tower
- Cables between radio equipment room and existing tower

☑ Radio equipment to connect Master Telemetry Station with Provider's Access Point
Design, supply and install IP radio equipment at existing radio equipment room to connect Master Telemetry Station with nearest Provider's Access Point (BTCL's AP), including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☑ Master telemetry equipment
Design, supply and install master telemetry equipment at existing radio equipment room to connect with slave telemetry equipment, including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☐ Radio equipment to connect Master Telemetry Station with OCT
Design, supply and install IP radio equipment at radio equipment room to connect Master Telemetry Station with Operating Company Terminal (OCT) at another site, including all necessary cables, accessories and the antenna to be mounted on the existing tower.

☑ Radio equipment to connect Provider's Access Point with Master Telemetry Station
Design, supply and install IP radio equipment at nearest BTCL's access point to connect BTCL's AP with Master Telemetry Station, including all necessary cables, accessories and the antenna with monopole.

☑ Network equipment
Design, supply and install all necessary Network equipment at radio equipment room of Master telemetry station as well as at nearest BTCL's access point.

☐ Network cable to OCT
Design, supply and install network cable between Master Telemetry Station and OCT which shall be installed within the same site.

■ : IP PBX System

☐ IP PBX main unit
Design, supply and install IP PBX main unit with necessary accessories and spare parts.

☑ Extension telephone set Q'ty
Design, supply and install extension telephone set(s) with required cables. [ 1 ]



## 3. Electrical Works

■ : Power Supply to RTU

☑ Electrical power shall be supplied to RTU from existing PDB, and existing power cable shall be re-used.

☐ Design, supply and install MCB box for the power supply to RTU including all cables from existing PDB to MCB box and from MCB box to RTU.

☐ Design, supply and intall power controller and power cable to RTU at remote site where electrical power is supplied from existing solar panel.

☐ Design, supply and install new solar panel, power controller and power cable to RTU.

■ : Backup Batteries for Radio Equipment at Master Station

☑ Remove and dispose existing backup batteries for radio equipment.
Supply & install new backup batteries with charger suitable to backup new radio equipment for 48 hours.

■ : Replacement of Air conditioner at Radio room of Master Station

☑ Remove and dispose existing window type air conditioner at raido room, and Supply & install new air conditioner suitably selected to maintain the specified temperature and humidity of radio room.

## 4. Civil Works

■ : Foundation & Sunshade for RTU

☑ Re-use existing foundation & sunshade for RTU
Examine the condition of existing foundation and sunshade for RTU and repair the defects, if any.

☐ Provide new foundation & sunshade for RTU
Design and construct the foundation and sunshade for new RTU at suitable location. The foundation and sunshade should be designed to suitably accommodate new RTU.

■ : Instrument Stand with Foundation & Sunshade

☑ Re-use existing Instrument stand(s) with foundation & sunshade
Examine the condition of existing Instrument stand(s) with foundation & sunshade and repair the defects, if any.

☑ Provide new Instrument stand(s) with foundation & sunshade
Design and construct the Instrument stand(s) with foundation & sunshade at suitable location. It should be designed to suitably accommodate the required number of instruments and explosion proof instrument field junction box.

■ : Refurbishment of Existing Radio Building/Radio Equipment Room

☐ Refurbishment of Radio Building
Examin the condition of the whole existing radio building and repair the defects if any.
Clean and touch-up the external and internal finish of the whole existing radio building.

☑ Refurbishment of Radio Equipment Room
Examine the condition of existing rooms where radio equipment and backup batteries are installed and repair the defects if any.
Clean and touch-up the internal finish of the said rooms.

☐ Cleaning of Radio Equipment Room
Clean and tidy up the existing rooms where radio equipment and backup batteries are installed.



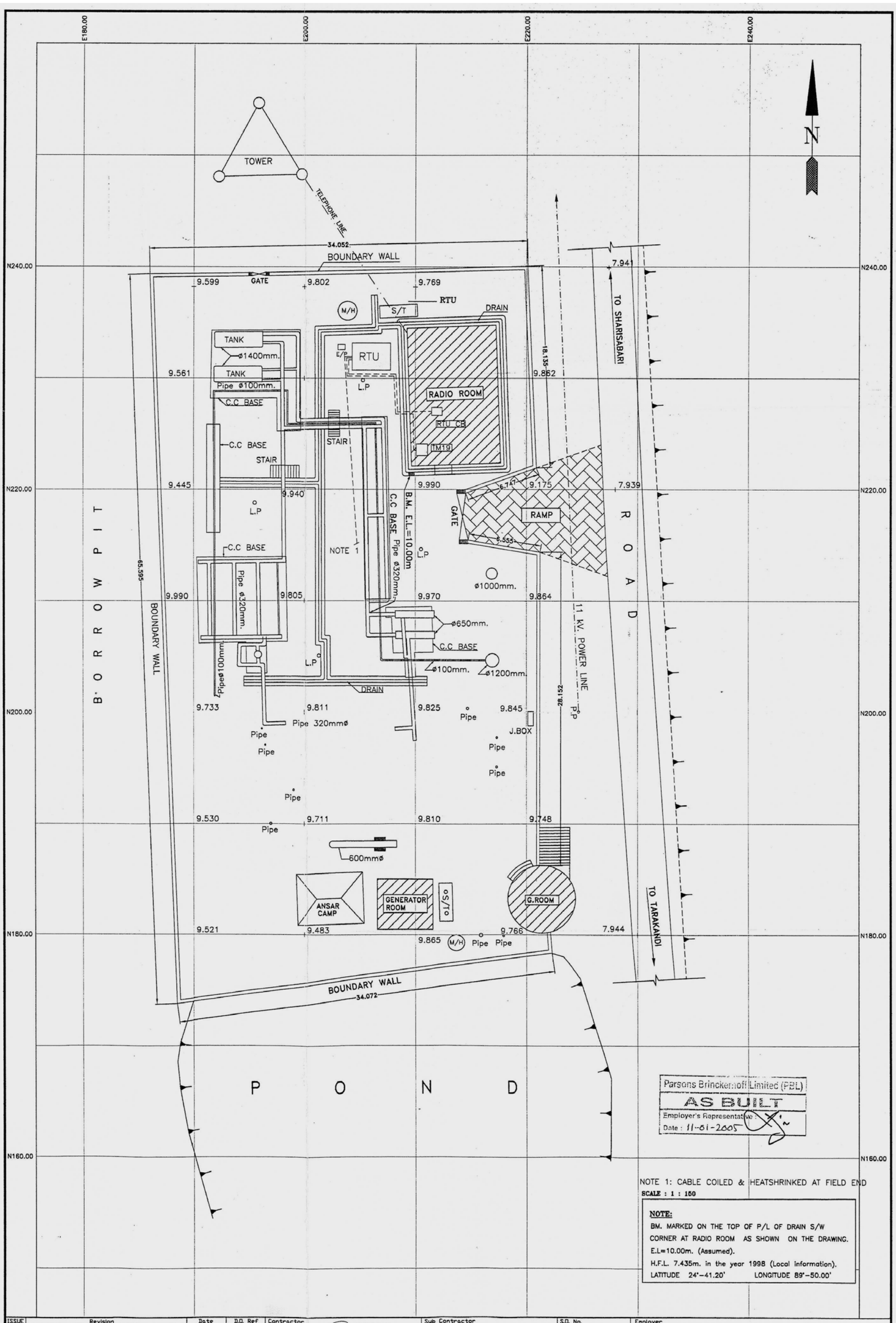
## 5. Site Photo

Existing Building where radio equipment room is located.

Existing RTU (cable link)

## 6. Site Layout

See attached Layout Plan.




NOTE 1: CABLE COILED & HEATSHRINKED AT FIELD END

**SCALE : 1 : 150**

**NOTE:**

BM. MARKED ON THE TOP OF P/L OF DRAIN S/W CORNER AT RADIO ROOM AS SHOWN ON THE DRAWING.
E.L=10.00m. (Assumed).
H.F.L. 7.435m. in the year 1998 (Local information).
LATITUDE 24°-41.20' LONGITUDE 89°-50.00'

| ISSUE | Revision | Date | D.O. Ref |
|---|---|---|---|
| A | ISSUED FOR DESIGN APPROVAL | | - |
| B | ISSUED FOR DESIGN APPROVAL | 10-11-04 | - |

Contractor: CONTROLS Ltd

CONTRACT DRAWING APPROVAL

Drawing Status: DESIGN APPROVAL

REDLINED CHANGES | APPROVED NO CHANGES

PRINT NAME: SIGNED: DATE:

Sub Contractor: SURVEY CORPORATION

S.O. No.

Employer: GAS TRANSMISSION COMPANY Ltd (GTCL)

Drawing Title: SITE CODE : 511 SITE NAME : TARAKANDI

THE BANGLADESH GAS INFRASTRUCTURE DEVELOPMENT PROJECT. SUPERVISORY CONTROL, DATA ACQUISITION AND TELECOMMUNICATIONS SYSTEMS.

| Drawing No. | Rev | Sheet | Drig. Size |
|---|---|---|---|
| 511-60-72 | B | | A1 |

| | Drawn | Checked | Approved |
|---|---|---|---|
| BY | HASHEM | M. A. HAYAT | M. A. HADAYET |
| Date | 21-03-99 | 21-03-99 | 21-03-99 |

Consultant: PB Technologies Ltd.

Employer Contract No: GTCL/RL-1109/C2

# Appendix 3 RTU List

# RTU LIST R3

Equip.
RTU: Replacement of existing RTU
New RTU: New RTU to be prepared

Status
exist: the site is existing
future: the site will be developed

Elec. Power
AC240V: AC 240V will be supplied
SP exist: Existing Solar Panel shall be replaced with new one.
SP new: New Solar Panel to be prepared

Display Panel
Yes: Display panel to be mounted on the RTU

New Instruments
PT: Pressure Transmitter
TT: Temperature Transmitter w/ RTD
PdT: Pressure Differential Transmitter

| CODE | SITE | Equip. | Status | Master Station | Elec. Power | Display Panel | NEW INSTRUMENTS | | | | | Telemetry | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PT | TT | PdT | Limit Switc | JB | Slave Radio | ANT Mast |
| 10-ASH-201 | Titas Gas Filed 1 | RTU | exist | 10-ASH-400M | AC240V | | 1 | 1 | 2 | | 1 | ○ | |
| 10-ASH-202 | Titas Gas Filed 3 | RTU | exist | 10-ASH-400M | AC240V | | 1 | 1 | 2 | | 1 | ○ | |
| 10-ASH-203 | TITAS Location 7 | New RTU | future | 10-ASH-400M | AC240V | | | | | | | △ | △ |
| 10-ASH-400 | Ashuganj | RTU | exist | 10-ASH-400M | AC240V | Yes | 1 | | | 1 | 1 | | |
| 10-ASH-401 | VS R | RTU | exist | 10-ASH-400M | SP exist. | | | | | | | ○ | |
| 10-ASH-402 | VS T | RTU | exist | 10-ASH-400M | AC240V | | | | | | | ○ | |
| 10-ASH-403 | VS 1 A-B | RTU | exist | 10-ASH-400M | SP exist. | | | | | | | ○ | |
| 10-ASH-404 | VS Chandura R-A Line | New RTU | exist | 10-ASH-400M | SP new | | 1 | | | 1 | 1 | ○ | ○ |
| 10-ASH-501 | Ashganj PS | RTU | exist | 10-ASH-400M | AC240V | | | | | | | ○ | |
| 10-ASH-502 | Ashganj FF | RTU | exist | 10-ASH-400M | AC240V | | 2 | 2 | 2 | | 1 | ○ | |
| 10-ASH-503 | TITAS VS3 | RTU | exist | 10-ASH-400M | AC240V | | | | | | | ○ | |
| 10-ASH-504 | Daulatkandi VS0 | RTU | exist | 10-ASH-400M | SP exist. | | 1 | | | 1 | 1 | ○ | |
| 10-ASH-505 | MS Ghatura | New RTU | exist | 10-ASH-400M | AC240V | | 4 | 4 | 8 | | 2 | ○ | ○ |
| 10-FCH-401 | VS E | RTU | exist | 10-FCH-600M | SP exist. | | | | | | | ○ | |
| 10-FCH-402 | VS D | RTU | exist | 10-FCH-600M | SP exist. | | | | | | | ○ | |
| 10-FCH-600 | Fenchugonj 90MW PS | RTU | exist | 10-FCH-600M | AC240V | | 1 | 1 | 2 | | 1 | | |
| 10-FCH-601 | Fenchugonj NGF | RTU | exist | 10-FCH-600M | AC240V | | | | | | | ○ | |
| 10-FCH-701 | Fenchugonj Gas Field | New RTU | exist | 10-FCH-600M | AC240V | | 2 | 2 | 4 | | 1 | ○ | ○ |
| 10-HOB-200 | Hobigonj Gas Field | RTU | exist | 10-HOB-200M | AC240V | | | | | | | | |
| 10-HOB-401 | VS P | RTU | exist | 10-HOB-200M | SP exist. | | | | | | | ○ | |
| 10-HOB-501 | Hobigonj TITAS DRS | RTU | exist | 10-HOB-200M | AC240V | | 2 | 2 | 4 | | 1 | ○ | |
| 10-HOR-300 | Horipur Gas Field | RTU | exist | 10-HOR-300M | AC240V | | | | | | | | |
| 10-JAL-601 | Devpur DRS | New RTU | exist | 10-JAL-600M | AC240V | | 2 | 2 | 4 | | 1 | ○ | ○ |
| 10-KAI-301 | Benibazar Gas Field | RTU | exist | 10-KAI-400M | AC240V | | 1 | 1 | 2 | | 1 | ○ | |
| 10-KAI-400 | Kailashtilla GTCL Compound | RTU | exist | 10-KAI-400M | AC240V | | 3 | 3 | 6 | | 2 | | |
| 10-KAI-601 | Kailashtilla DRS | RTU | exist | 10-KAI-400M | AC240V | | | | | | | ○ | |
| 10-RAS-300 | Rashidpur Gas Field | RTU | exist | 10-RAS-300M | AC240V | | | | | | | | |
| 10-RAS-401 | VS L | RTU | exist | 10-RAS-300M | AC240V | | | | | | | ○ | |
| 10-RAS-402 | VS H | RTU | exist | 10-RAS-300M | SP exist. | | | | | | | ○ | |
| 10-RAS-403 | VS K | RTU | exist | 10-RAS-300M | SP exist. | | | | | | | ○ | |
| 10-RAS-404 | VS M | RTU | exist | 10-RAS-300M | SP exist. | | | | | | | ○ | |
| 10-RAS-405 | Rashipdur/Muchai Compressor Station | New RTU | future | 10-RAS-300M | AC240V | | | | | | | △ | △ |
| 10-RAS-406 | VS Chunarughat R-A Line | New RTU | exist | 10-RAS-300M | SP new | | 1 | | | 1 | 1 | ○ | ○ |
| 20-BKB-100 | Bakhrabad | RTU | exist | 20-BKB-100M | AC240V | | 1 | | | 1 | 1 | | |
| 20-BKB-101 | Kutombopur | RTU | exist | 20-BKB-100M | AC240V | Yes | | | | | | ○ | |
| 20-BKB-102 | VS3 BKB-Demra | RTU | exist | 20-BKB-100M | SP exist. | | | | | | | ○ | |
| 20-BKB-201 | Meghna Gas Field | RTU | exist | 20-BKB-100M | AC240V | | | | | | | ○ | |
| 20-BKB-401 | VS2 A-B | RTU | exist | 20-BKB-100M | SP exist. | | | | | | | ○ | |
| 20-BKB-501 | TBS Gazaria | New RTU | exist | 20-BKB-100M | SP new | | 2 | 2 | | | 1 | ○ | ○ |
| 20-BKB-701 | Salda Nadi Gas Field | RTU | exist | 20-BKB-100M | AC240V | | | | | | | ○ | |
| 20-BKB-702 | Bangura Gas Field | New RTU | exist | 20-BKB-100M | AC240V | | | | | | | ○ | ○ |
| 20-BKB-703 | Srikail Gas Field | New RTU | future | 20-BKB-100M | AC240V | | | | | | | △ | △ |
| 20-CHA-101 | Chandpur TBS | RTU | exist | 20-CHA-100M | AC240V | | 2 | 2 | 4 | | 1 | ○ | |
| 20-FAU-100 | Faujdarhat | RTU | exist | 20-FAU-100M | AC240V | Yes | | | | | | | |
| 20-FAU-101 | CUFL | RTU | exist | 20-FAU-100M | AC240V | | | | | | | ○ | |
| 20-FAU-102 | KAFCO | RTU | exist | 20-FAU-100M | AC240V | | | | | | | ○ | |
| 20-FAU-103 | Sikalbaha | RTU | exist | 20-FAU-100M | AC240V | | | | | | | ○ | |
| 20-FAU-104 | Raujan PS | RTU | exist | 20-FAU-100M | AC240V | | | | | | | ○ | |
| 20-FAU-701 | Sanghu Onshore Process Plant | RTU | exist | 20-FAU-100M | AC240V | | | | | | | ○ | |
| 20-FEN-100 | Feni TBS | RTU | exist | 20-FEN-100M | AC240V | | | | | | | | |
| 20-FEN-701 | Feni Gas Field | New RTU | exist | 20-FEN-100M | AC240V | | 1 | 1 | 2 | | 1 | ○ | ○ |
| 20-FEN-702 | Sundalpur Gas Field | New RTU | future | 20-FEN-100M | AC240V | | | | | | | △ | △ |
| 20-FEN-703 | Begumgonj Gas Field | New RTU | future | 20-FEN-100M | AC240V | | | | | | | △ | △ |
| 20-LAK-101 | Laksham TBS | RTU | exist | 20-LAK-100M | AC240V | | | | | | | ○ | |
| 20-MIR-101 | Mitachara | RTU | exist | 20-MIR-100M | AC240V | | 1 | 1 | | | 1 | ○ | |
| 20-MIR-401 | Barakubundu TBS | New RTU | exist | 20-MIR-100M | AC240V | Yes | | | | | | ○ | ○ |
| 20-MIR-701 | Semutang Gas Field | New RTU | future | 20-MIR-100M | AC240V | | | | | | | △ | △ |
| 30-DMR-100 | Demra CGS | RTU | exist | 30-DMR-100M | AC240V | | | | | | | | |
| 30-DMR-101 | Sonargaon | RTU | exist | 30-DMR-100M | AC240V | | | | | | | ○ | |
| 30-DMR-102 | Dewanbagh | RTU | exist | 30-DMR-100M | AC240V | | | | | | | ○ | |
| 30-DMR-103 | VS7 BKB-Demra | RTU | exist | 30-DMR-100M | SP exist. | | | | | | | ○ | |
| 30-DMR-104 | VS5 BKB-Demra | RTU | exist | 30-DMR-100M | SP exist. | | | | | | | ○ | |
| 30-DMR-501 | Siddirganj PS | New RTU | exist | 30-DMR-100M | AC240V | | 6 | 6 | 12 | | 3 | ○ | ○ |
| 30-DMR-502 | Horipur IPP 350 MW PS | New RTU | future | 30-DMR-100M | AC240V | | | | | | | △ | △ |
| 30-DMR-503 | Horipur IPP 360 MW PS | New RTU | exist | 30-DMR-100M | AC240V | | 1 | 1 | 2 | | 1 | ○ | ○ |
| 30-DMR-504 | Horipur SBU 100MW & NEPC 110MW | New RTU | exist | 30-DMR-100M | AC240V | | 3 | 3 | 4 | | 2 | ○ | ○ |
| 30-DMR-505 | VS 14 Madhabdi | New RTU | exist | 30-DMR-100M | AC240V | | 1 | | | 1 | 1 | ○ | ○ |
| 30-DMR-506 | VS 15 Tarabo | New RTU | exist | 30-DMR-100M | AC240V | | 1 | | | 1 | 1 | ○ | ○ |
| 30-DMR-507 | VS Dighibarabo | New RTU | exist | 30-DMR-100M | SP new | | 1 | | | 1 | 1 | ○ | ○ |
| 30-DMR-508 | VS Horipur | New RTU | exist | 30-DMR-100M | AC240V | | 1 | | | 1 | 1 | ○ | ○ |
| 30-DMR-509 | VS Meghnaghat | New RTU | exist | 30-DMR-100M | AC240V | | 1 | | | 1 | 1 | ○ | ○ |
| 30-DMR-510 | Meghnaghat IPP 450 MW PS | New RTU | exist | 30-DMR-100M | AC240V | | 1 | 1 | 2 | | 1 | ○ | ○ |
| 30-PBG-401 | CGS Aminbazar (out) | New RTU | exist | 30-PBG-700M | AC240V | Yes | 3 | 3 | 6 | | 2 | ○ | ○ |
| 30-PBG-402 | CGS Ashulia (out) | New RTU | exist | 30-PBG-700M | AC240V | Yes | 2 | 2 | 4 | | 1 | ○ | ○ |
| 30-PBG-501 | Tongi 80 MW P.S. (out) | New RTU | exist | 30-PBG-700M | AC240V | | 1 | 1 | | | 1 | ○ | ○ |
| 40-ELE-500 | Elenga | RTU | exist | 40-ELE-500M | AC240V | Yes | 1 | 1 | 2 | | 1 | | |
| 40-MHD-201 | Narsingdi Gas Field | RTU | exist | 40-MHD-500M | AC240V | | | | | | | ○ | |
| 40-MHD-500 | Monohordi | RTU | exist | 40-MHD-500M | AC240V | Yes | 1 | 1 | 2 | | 1 | | |
| 40-MHD-501 | GUFF/PUFF | RTU | exist | 40-MHD-500M | AC240V | | 4 | 4 | | | 1 | ○ | |
| 40-MHD-502 | Ghorasal PS | RTU | exist | 40-MHD-500M | AC240V | | | | | | | ○ | |
| 40-MHD-503 | Joydevpur CGS | RTU | exist | 40-MHD-500M | AC240V | | 8 | 8 | 2 | | 2 | ○ | |
| 40-MHD-504 | Poladi VS3 | RTU | exist | 40-MHD-500M | SP exist. | | | | | | | ○ | |
| 40-MHD-505 | Uzilab VS1 | RTU | exist | 40-MHD-500M | SP exist. | | 1 | | | 1 | 1 | ○ | |
| 40-MHD-506 | Khirti VS2 | RTU | exist | 40-MHD-500M | SP exist. | | | | | | | ○ | |
| 40-MHD-507 | Dhanua VS4 | RTU | exist | 40-MHD-500M | SP exist. | | | | | | | ○ | |
| 40-MHD-508 | VS-12 Narsingdi | New RTU | exist | 40-MHD-500M | AC240V | | 2 | | | | 1 | ○ | ○ |
| 40-MYM-501 | RPCL PS Mymensing | New RTU | exist | 40-MYM-500M | AC240V | | 1 | 1 | 2 | | 1 | ○ | ○ |
| 40-TRK-500 | Tarakandi (JFCL RMS) | RTU | exist | 40-TRK-500M | AC240V | | 1 | 1 | 2 | | 1 | | |
| Total Instruments | | | | | | | 71 | 58 | 82 | 11 | 46 | ○:68 | ○:23 |
| | | | | | | | | | | | | △:7 | △:7 |

Total RTU Number: 88
AC240V Site: 67
Existing Solar Panel Site: 17
New Solar Panel Site: 4
Display Panel: 8

Slave Telemetry
△: Supply only

# Appendix 4 I/O List

## LEGEND

| TAG | SERVICE | PLC | | | | | | | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | | | | RANGE | | | |
| | | FROM | TO | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | | [10] | [11] |

[1] Tag No.
[2] SERVICE
[3] SIGNAL FROM
FIELD: Field Instruments
RTU: Remote Terminal Unit
RX: Flow Computer or Receiver for turbine meter
[4] SIGNAL SEND TO
[5] INPUT SIGNAL TO PLC
AI: Analog Input
AO: Analog Output
DI: Degital Input
DO: Degital Output
PI: Pulse Input
Pt: Pt100Ω Analog Input
BCD:Binary-Coded Decimal Input
COM: Serial ports communication
[6] Specification of signals
[7] Power Specification
[8] Quantities of signals
[9] Range of Setting for analog signal
[10] Unit
[11] Notes

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Titas Gas Filed 1 | Code: | 10-ASH-201 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Titas Gas Filed 1 | Code: | 10-ASH-201 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Titas Gas Filed 3 | Code: | 10-ASH-202 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Titas Gas Filed 3 | Code: | 10-ASH-202 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Titas Location 7 | Code: | 10-ASH-203 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Titas Location 7 | Code: | 10-ASH-203 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj | Code: | 10-ASH-400 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj | Code: | 10-ASH-400 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj | Code: | 10-ASH-400 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj | Code: | 10-ASH-400 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 6 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 6 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 6 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 6 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 6 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 6 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 6 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 6 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 6 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj | Code: | 10-ASH-400 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Difference pressure L | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 7 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 7 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 7 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 7 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 7 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 7 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 7 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 7 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 7 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 8 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 8 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 8 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj | Code: | 10-ASH-400 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Specific gravity | Stream# 8 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 8 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 8 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 8 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 8 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 8 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 9 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 9 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 9 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 9 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 9 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 9 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 9 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 9 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 9 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj | Code: | 10-ASH-400 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas volume flow (instanteneous value) | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 10 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 10 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 10 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 10 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 10 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 10 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 10 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 10 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 10 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Inlet Pressure | Ashuganj Scrapar Trap | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Ashuganj Scrapar Trap | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Ashuganj Scrapar Trap | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Ashuganj Scrapar Trap | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Inlet Pressure | Ashuganj - Monohordi | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Ashuganj - Monohordi | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Ashuganj - Monohordi | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Ashuganj - Monohordi | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS-R | Code: | 10-ASH-401 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS-T | Code: | 10-ASH-402 | Rev. | 1 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS-T | Code: | 10-ASH-402 | Rev. | 1 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Corrosion Protection Voltage | Gas Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Corrosion Protection Voltage | Condensate Line | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS1 A-B | Code: | 10-ASH-403 | Rev. | 1 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | |
| | Corossion Protection Voltage Gas Line #1 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Corossion Protection Voltage Gas Line #2 | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS Chandura R-A Line | Code: | 10-ASH-404 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj P.S. | Code: | 10-ASH-501 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj P.S. | Code: | 10-ASH-501 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Gas correctec volume flow | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas totalised corected volume | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas corrected volume flow | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Pressure | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Temperature | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | | | | | | | | | | | | |
| | Gas correctec volume flow | Stream# 4 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas totalised corected volume | Stream# 4 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas corrected volume flow | Stream# 4 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Pressure | Stream# 4 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Temperature | Stream# 4 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | | | | | | | | | | | | |
| | Gas correctec volume flow | Stream# 5 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas totalised corected volume | Stream# 5 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas corrected volume flow | Stream# 5 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Pressure | Stream# 5 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Temperature | Stream# 5 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ashuganj FF | Code: | 10-ASH-502 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 3 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | TITAS VS3 | Code: | 10-ASH-503 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Inlet Pressure | | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Daulatkandi VS0 | Code: | 10-ASH-504 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | |
| | Inlet Pressure 30" Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status 30" Line | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command 30" Line | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command 30" Line | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | MS Ghatura | Code: | 10-ASH-505 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | MS Ghatura | Code: | 10-ASH-505 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | MS Ghatura | Code: | 10-ASH-505 | Rev. | 0 |
| Covered by | Ashuganj | Code: | 10-ASH-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS-E | Code: | 10-FCH-401 | Rev. | 1 |
| Covered by | Fenchugonj Radio | Code: | 10-FCH-600M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | |
| | Corossion Protection Voltage Gas Line #1 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Corossion Protection Voltage Gas Line #2 | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS-D | Code: | 10-FCH-402 | Rev. | 0 |
| Covered by | Fenchugonj Radio | Code: | 10-FCH-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Fenchugonj 90MW PS | Code: | 10-FCH-600 | Rev. | 0 |
| Covered by | Fenchugonj Radio | Code: | 10-FCH-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Fenchugonj 90MW PS | Code: | 10-FCH-600 | Rev. | 0 |
| Covered by | Fenchugonj Radio | Code: | 10-FCH-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 3 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 4 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 5 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 5 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 5 Turbine | FIELD | RTU | PI | | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Fenchugonj 90MW PS | Code: | 10-FCH-600 | Rev. | 0 |
| Covered by | Fenchugonj Radio | Code: | 10-FCH-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas correctec volume flow | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 6 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 6 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 6 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Fenchugonj NGF | Code: | 10-FCH-601 | Rev. | 0 |
| Covered by | Fenchugonj Radio | Code: | 10-FCH-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Fenchugonj Gas Field | Code: | 10-FCH-701 | Rev. | 0 |
| Covered by | Fenchugonj Radio | Code: | 10-FCH-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Fenchugonj Gas Field | Code: | 10-FCH-701 | Rev. | 0 |
| Covered by | Fenchugonj Radio | Code: | 10-FCH-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Hobigonj Gas Field | Code: | 10-HOB-200 | Rev. | 0 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Hobigonj Gas Field | Code: | 10-HOB-200 | Rev. | 0 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Hobigonj Gas Field | Code: | 10-HOB-200 | Rev. | 0 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Hobigonj DRS Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Hobigonj DRS Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Hobigonj DRS Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Hobigonj DRS Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Hobigonj DRS Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Hobigonj DRS Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Hobigonj DRS Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Hobigonj DRS Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Hobigonj Gas Field | Code: | 10-HOB-200 | Rev. | 0 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised mass flow | Hobigonj DRS Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Hobigonj DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Hobigonj DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Hobigonj DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Hobigonj DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Hobigonj DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Hobigonj DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Hobigonj DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Hobigonj DRS Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS P | Code: | 10-HOB-401 | Rev. | 0 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Hobigonj TITAS DRS | Code: | 10-HOB-501 | Rev. | 0 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Hobigonj TITAS DRS | Code: | 10-HOB-501 | Rev. | 0 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Horipur Gas Field | Code: | 10-HOR-300 | Rev. | 0 |
| Covered by | Horipur Head Office | Code: | 10-HOR-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Devpur | Code: | 10-JAL-601 | Rev. | 0 |
| Covered by | Jalalabad Head Office | Code: | 10-JAL-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Devpur | Code: | 10-JAL-601 | Rev. | 0 |
| Covered by | Jalalabad Head Office | Code: | 10-JAL-600M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Benibazar Gas Field | Code: | 10-KAI-301 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Benibazar Gas Field | Code: | 10-KAI-301 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Benibazar Gas Field | Code: | 10-KAI-301 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kailashtilla GTCL Compound | Code: | 10-KAI-400 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | KT2 # 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | KT2 # 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | KT2 # 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | KT2 # 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | KT2 # 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | KT2 # 1 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kailashtilla GTCL Compound | Code: | 10-KAI-400 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | KT2 # 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | KT2 # 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | KT2 # 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | KT2 # 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | KT2 # 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | KT2 # 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | KT2 # 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | KT2 # 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | KT2 # 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | KT2 # 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | KT2 # 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | KT2 # 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | KT2 # 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | KT2 # 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | KT2 # 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | KT2 # 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | KT2 # 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | KT2 # 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | KT2 # 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | KT2 # 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | KT2 # 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | KT2 # 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | KT2 # 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | KT2 # 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | KT2 # 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | KT2 # 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | KT2 # 2 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kailashtilla GTCL Compound | Code: | 10-KAI-400 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | KT2 # 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | KT2 # 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | KT2 # 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | KT2 # 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | KT2 # 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | KT2 # 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | KT2 # 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | KT2 # 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | KT2 # 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | KT2 # 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | KT2 # 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | KT2 # 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | KT2 # 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | KT2 # 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | KT2 # 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | KT2 # 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | KT2 # 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | KT2 # 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | KT2 # 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | KT2 # 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | KT2 # 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | KT2 # 4 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | KT2 # 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | KT2 # 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | KT2 # 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | KT2 # 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | KT2 # 4 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kailashtilla GTCL Compound | Code: | 10-KAI-400 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Orifice bore diameter | KT2 # 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | KT2 # 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | KT2 # 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | KT2 # 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | KT2 # 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | KT2 # 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | KT2 # 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | KT2 # 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | KT2 # 5 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | KT2 # 5 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | KT2 # 5 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | KT2 # 5 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | KT2 # 5 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | KT2 # 5 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | KT2 # 5 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | KT2 # 5 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | KT2 # 5 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | KT2 # 5 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | KT2 # 5 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | KT2 # 5 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | KT2 # 5 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | KT2 # 5 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | KT2 # 5 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | KT2 # 5 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | KT2 # 5 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | KT2 # 6 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kailashtilla GTCL Compound | Code: | 10-KAI-400 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Difference pressure L | KT2 # 6 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | KT2 # 6 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | KT2 # 6 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | KT2 # 6 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | KT2 # 6 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | KT2 # 6 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | KT2 # 6 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | KT2 # 6 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | KT2 # 6 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | KT2 # 6 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | KT2 # 6 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | KT2 # 6 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | KT2 # 6 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | KT2 # 6 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | KT2 # 6 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | KT2 # 6 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | KT2 # 7 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | KT2 # 7 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | KT2 # 7 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | KT2 # 7 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | KT2 # 7 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | KT2 # 7 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | KT2 # 7 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | KT2 # 7 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | KT2 # 7 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | KT2 # 7 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | KT2 # 7 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kailashtilla GTCL Compound | Code: | 10-KAI-400 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Specific gravity | KT2 # 7 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | KT2 # 7 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | KT2 # 7 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | KT2 # 7 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | KT2 # 7 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | KT2 # 7 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kailashtilla DRS | Code: | 10-KAI-601 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | DRS Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | DRS Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | DRS Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | DRS Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | DRS Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | DRS Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | DRS Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | DRS Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | DRS Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | DRS Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | KT1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | KT1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | KT1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | KT1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | KT1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | KT1 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kailashtilla DRS | Code: | 10-KAI-601 | Rev. | 0 |
| Covered by | Kailashtilla 2 Radio | Code: | 10-KAI-400M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | KT1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | KT1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | KT1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | KT1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | KT1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | KT1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | KT1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | KT1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | KT1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | KT1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | KT1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Rashidpur Gas Field | Code: | 10-RAS-300 | Rev. | 0 |
| Covered by | Rashidpur Gas Field | Code: | 10-RAS-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Rashidpur Gas Field | Code: | 10-RAS-300 | Rev. | 0 |
| Covered by | Rashidpur Gas Field | Code: | 10-RAS-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Rashidpur Gas Field | Code: | 10-RAS-300 | Rev. | 0 |
| Covered by | Rashidpur Gas Field | Code: | 10-RAS-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS-L | Code: | 10-RAS-401 | Rev. | 0 |
| Covered by | Rashidpur Gas Field | Code: | 10-RAS-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Inlet Pressure | Line 1 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Line 1 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Line 1 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Line 1 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Inlet Pressure | Line 2 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Line 2 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Line 2 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Line 2 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Inlet Pressure | Line 3 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Line 3 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Line 3 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Line 3 | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS H | Code: | 10-RAS-402 | Rev. | 0 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS K | Code: | 10-RAS-403 | Rev. | 1 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Inlet Pressure | | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Corossion Protection Voltage | Gas Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Corossion Protection Voltage | Condensate Line | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS M | Code: | 10-RAS-404 | Rev. | 1 |
| Covered by | Hobigonj Gas Field | Code: | 10-HOB-200M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Inlet Pressure | | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Corossion Protection Voltage | Gas Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Corossion Protection Voltage | Condensate Line | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Rashidpur/Muchai Compressor Station | Code: | 10-RAS-405 | Rev. | 0 |
| Covered by | Rashidpur Gas Field | Code: | 10-RAS-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Rashidpur/Muchai Compressor Station | Code: | 10-RAS-405 | Rev. | 0 |
| Covered by | Rashidpur Gas Field | Code: | 10-RAS-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Line #1 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Line #1 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Line #1 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Line #1 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Pressure | Line #2 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Line #2 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Line #2 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Line #2 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Pressure | Line #3 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Line #3 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Line #3 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Line #3 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Pressure | Line #4 | FIELD | RTU | AI | 4-20mA | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Rashidpur/Muchai Compressor Station | Code: | 10-RAS-405 | Rev. | 0 |
| Covered by | Rashidpur Gas Field | Code: | 10-RAS-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Valve Status | Line #4 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Line #4 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Line #4 | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Chanarughat R-A Line | Code: | 10-RAS-406 | Rev. | 0 |
| Covered by | Rashidpur Gas Field | Code: | 10-RAS-300M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Bakhrabad | Code: | 20-BKB-100 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | BKB Gas Field Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | BKB Gas Field Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | BKB Gas Field Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | BKB Gas Field Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | BKB Gas Field Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | BKB Gas Field Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | BKB Gas Field Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | BKB Gas Field Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | BKB Gas Field Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | BKB Gas Field Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | BKB Gas Field Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | BKB Gas Field Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | BKB Gas Field Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | BKB Gas Field Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | BKB Gas Field Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | BKB Gas Field Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | BKB Gas Field Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Inlet Pressure | VS1 BKB-Demra | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | VS1 BKB-Demra | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | VS1 BKB-Demra | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | VS1 BKB-Demra | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Inlet Pressure | VS2 BKB-Chittagon | FIELD | RTU | AI | 4-20mA | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Bakhrabad | Code: | 20-BKB-100 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Valve Status | VS2 BKB-Chittagon | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | VS2 BKB-Chittagon | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | VS2 BKB-Chittagon | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Inlet Pressure | BKB A-B Pipeline | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | BKB A-B Pipeline | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | BKB A-B Pipeline | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | BKB A-B Pipeline | RTU | FIELD | DO | | | | | | | Future |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kutombopur | Code: | 20-BKB-101 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kutombopur | Code: | 20-BKB-101 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Kutombopur | Code: | 20-BKB-101 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility Stream# 3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
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## List of Data Transmitted

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|---|---|---|---|---|
| CUSTOMER | GTCL | | DOC. NO. | |
| RTU | VS3 BKB-Demra | Code 20-BKB-102 | Rev. | 1 |
| Covered by | Bakhrabad | Code 20-BKB-100M | Date | Feb-2011 |
| | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Inlet Pressure | VS1 BKB-Demra | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | VS1 BKB-Demra | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | VS1 BKB-Demra | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | VS1 BKB-Demra | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Casodic Protection Voltage | Gas Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Casodic Protection Voltage | Condensate Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | | | | | | | | | | | | |
| | Corrosion Protection Voltage | Gas Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Corrosion Protection Voltage | Condensate Line | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Meghna Gas Field | Code: | 20-BKB-201 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS2 A-B | Code: | 20-BKB-401 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | TBS Gazaria | Code: | 20-BKB-501 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 1 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 2 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Salda Nadi Gas Field | Code: | 20-BKB-701 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Bangura Gas Field | Code: | 20-BKB-702 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Gas #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Gas #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Gas #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Gas #1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Volume flow (instanteneous value) | Gas #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Corrected volume flow | Gas #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Totalised corected volume | Gas #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Mass flow | Gas #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Totalised mass flow | Gas #1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Gas #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Gas #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Gas #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Gas #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Gas #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Gas #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Gas #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Gas #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Gas #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Gas #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Gas #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Gas #2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Volume flow (instanteneous value) | Gas #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Corrected volume flow | Gas #2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Bangura Gas Field | Code: | 20-BKB-702 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Totalised corected volume | Gas #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Mass flow | Gas #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Totalised mass flow | Gas #2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Gas #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Gas #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Gas #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Gas #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Gas #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Gas #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Gas #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Gas #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Condensate #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Condensate #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Condensate #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Condensate #1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Volume flow (instanteneous value) | Condensate #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Corrected volume flow | Condensate #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Totalised corected volume | Condensate #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Mass flow | Condensate #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Totalised mass flow | Condensate #1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Condensate #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Condensate #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Condensate #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Condensate #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Condensate #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Condensate #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Condensate #1 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Bangura Gas Field | Code: | 20-BKB-702 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Condensate #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Condensate #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Condensate #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Condensate #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Condensate #2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Volume flow (instanteneous value) | Condensate #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Corrected volume flow | Condensate #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Totalised corected volume | Condensate #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Mass flow | Condensate #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Totalised mass flow | Condensate #2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Condensate #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Condensate #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Condensate #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Condensate #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Condensate #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Condensate #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Condensate #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Condensate #2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Srikail Gas Field | Code: | 20-BKB-703 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Srikail Gas Field | Code: | 20-BKB-703 | Rev. | 0 |
| Covered by | Bakhrabad | Code: | 20-BKB-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Chandpur TBS | Code: | 20-CHA-101 | Rev. | 0 |
| Covered by | Chandpur | Code: | 20-CHA-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Chandpur TBS | Code: | 20-CHA-101 | Rev. | 0 |
| Covered by | Chandpur | Code: | 20-CHA-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Chandpur TBS | Code: | 20-CHA-101 | Rev. | 0 |
| Covered by | Chandpur | Code: | 20-CHA-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Faujdarhat | Code: | 20-FAU-100 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Faujdarhat | Code: | 20-FAU-100 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Faujdarhat | Code: | 20-FAU-100 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Inlet Pressure | VS15 BKB-CTG | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | VS15 BKB-CTG | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | VS15 BKB-CTG | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | VS15 BKB-CTG | RTU | FIELD | DO | | | | | | | Future |
| | Pig Indicator | VS15 BKB-CTG | FIELD | RTU | DI | | | | | | | Future |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | CUFL | Code: | 20-FAU-101 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | KAFCO | Code: | 20-FAU-102 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | KAFCO | Code: | 20-FAU-102 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Sikalbaha | Code: | 20-FAU-103 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Sikalbaha | Code: | 20-FAU-103 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Raujan P.S. | Code: | 20-FAU-104 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Raujan P.S. | Code: | 20-FAU-104 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Raujan P.S. | Code: | 20-FAU-104 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 4 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 4 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 4 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Sanghu Onshore Process Plant | Code: | 20-FAU-701 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Standard gas volume daily total | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Measured HC dewpoint | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Measured water dewpoint | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Standard gas volume flow | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow O2 | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow N2 | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow CO2 | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Methane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Ethane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Propane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow N-Butane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow I-Butane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow N-Pentane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow I-Pentane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Neo-Pentane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Hexane | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Energy | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow standard volume total | Stream# A | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | | | | | | | | | | | | |
| | Standard gas volume daily total | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Measured HC dewpoint | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Measured water dewpoint | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Standard gas volume flow | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow O2 | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow N2 | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Sanghu Onshore Process Plant | Code: | 20-FAU-701 | Rev. | 0 |
| Covered by | Faujdarhat | Code: | 20-FAU-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Flow CO2 | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Methane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Ethane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Propane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow N-Butane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow I-Butane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow N-Pentane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow I-Pentane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Neo-Pentane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Hexane | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow Energy | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | Flow standard volume total | Stream# B | | RTU | COM | MODBUS | | | | | | Input from Sanghu Server |
| | | | | | | | | | | | | |
| | BKB corrected flow | | RTU | | COM | MODBUS | | | | | | Output to Sanghu Server |
| | Chittagong corrected flow | | RTU | | COM | MODBUS | | | | | | Output to Sanghu Server |
| | BKB pressure | | RTU | | COM | MODBUS | | | | | | Output to Sanghu Server |
| | Chittagong pressure | | RTU | | COM | MODBUS | | | | | | Output to Sanghu Server |
| | BKB to Chittagong line pack | | RTU | | COM | MODBUS | | | | | | Output to Sanghu Server |
| | Chittagong flow excluding Sangu | | RTU | | COM | MODBUS | | | | | | Output to Sanghu Server |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Feni TBS | Code: | 20-FEN-100 | Rev. | 1 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Feni TBS | Code: | 20-FEN-100 | Rev. | 1 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Feni TBS | Code: | 20-FEN-100 | Rev. | 1 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Feni TBS | Code: | 20-FEN-100 | Rev. | 1 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Corrosion Protection Voltage | | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Feni GasField | Code: | 20-FEN-701 | Rev. | 0 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Sundalpur Gas Field | Code: | 20-FEN-702 | Rev. | 0 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Sundalpur Gas Field | Code: | 20-FEN-702 | Rev. | 0 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Begumgonj Gas Field | Code: | 20-FEN-703 | Rev. | 0 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Begumgonj Gas Field | Code: | 20-FEN-703 | Rev. | 0 |
| Covered by | Feni | Code: | 20-FEN-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Laksham TBS | Code: | 20-LAK-101 | Rev. | 0 |
| Covered by | Laksham Radio | Code: | 20-LAK-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Laksham TBS | Code: | 20-LAK-101 | Rev. | 0 |
| Covered by | Laksham Radio | Code: | 20-LAK-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Mitachara | Code: | 20-MIR-101 | Rev. | 1 |
| Covered by | Mirasarai | Code: | 20-MIR-100M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 1 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Corossion Protection Voltage | | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Barabukundu TBS | Code: | 20-MIR-401 | Rev. | 0 |
| Covered by | Mirasarai | Code: | 20-MIR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Barabukundu TBS | Code: | 20-MIR-401 | Rev. | 0 |
| Covered by | Mirasarai | Code: | 20-MIR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Flow count pulse | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas correctec volume flow | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 3 Turbine | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Semtang Gas Field | Code: | 20-MIR-701 | Rev. | 0 |
| Covered by | Mirasarai | Code: | 20-MIR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Semtang Gas Field | Code: | 20-MIR-701 | Rev. | 0 |
| Covered by | Mirasarai | Code: | 20-MIR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Demra | Code: | 30-DMR-100 | Rev. | 1 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Mar-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Inlet Pressure | | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Temperature | Stream# 1 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Gas corrected volume flow | Stream# 1 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Gas totalised corected volume | Stream# 1 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Gas mass flow | Stream# 1 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Gas totalised mass flow | Stream# 1 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Temperature | Stream# 2 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Gas corrected volume flow | Stream# 2 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Gas totalised corected volume | Stream# 2 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Gas mass flow | Stream# 2 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
| | Gas totalised mass flow | Stream# 2 | RX | RTU | COM | MODBUS | | | | | | Flow Computer @ Titas Control Room |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Sonargaon | Code: | 30-DMR-101 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Gas correctec volume flow | Stream# 1 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas totalised corected volume | Stream# 1 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas corrected volume flow | Stream# 1 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Pressure | Stream# 1 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Temperature | Stream# 1 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | | | | | | | | | | | | |
| | Gas correctec volume flow | Stream# 2 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas totalised corected volume | Stream# 2 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Gas corrected volume flow | Stream# 2 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Pressure | Stream# 2 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
| | Temperature | Stream# 2 Turbine | RX | RTU | COM | MODBUS | | | | | | Existing RX will be re-used. |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Dewanbagh | Code: | 30-DMR-102 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Dewanbagh | Code: | 30-DMR-102 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS7 BKB-Demra | Code: | 30-DMR-103 | Rev. | 1 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Feb-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | |
| | Cororrion Protection Voltage | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS5 BKB-Demra | Code: | 30-DMR-104 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Siddirganj PS | Code: | 30-DMR-501 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | 210MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | 210MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | 210MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | 210MW #1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | 210MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | 210MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | 210MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | 210MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | 210MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | 210MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | 210MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | 210MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | 210MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | 210MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | 210MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | 210MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | 210MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | 210MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | 210MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | 210MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | 210MW #2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | 210MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | 210MW #2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Siddirganj PS | Code: | 30-DMR-501 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | 210MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | 210MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | 210MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | 210MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | 210MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | 210MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | 210MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | 210MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | 210MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | 210MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | 210MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | 120MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | 120MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | 120MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | 120MW #1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | 120MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | 120MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | 120MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | 120MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | 120MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | 120MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | 120MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | 120MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | 120MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | 120MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | 120MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | 120MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Siddirganj PS | Code: | 30-DMR-501 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | 120MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | 120MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | 120MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | 120MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | 120MW #2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | 120MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | 120MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | 120MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | 120MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | 120MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | 120MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | 120MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | 120MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | 120MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | 120MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | 120MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | 120MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | 120MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | 150MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | 150MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | 150MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | 150MW #1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | 150MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | 150MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | 150MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | 150MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | 150MW #1 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Siddirganj PS | Code: | 30-DMR-501 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Orifice bore diameter | 150MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | 150MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | 150MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | 150MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | 150MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | 150MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | 150MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | 150MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | 150MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | 150MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | 150MW #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | 150MW #2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | 150MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | 150MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | 150MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | 150MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | 150MW #2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | 150MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | 150MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | 150MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | 150MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | 150MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | 150MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | 150MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | 150MW #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Horipur IPP 350 MW PS | Code: | 30-DMR-502 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream #1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream #1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream #2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream #2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream #2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Horipur IPP 350 MW PS | Code: | 30-DMR-502 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream #2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream #2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream #2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream #2 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Horipur IPP 360 MW PS | Code: | 30-DMR-503 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Horipur SBU 100MW & NEPC 110MW | Code: | 30-DMR-504 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Horipur SBU #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Horipur SBU #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Horipur SBU #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Horipur SBU #1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Horipur SBU #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Horipur SBU #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Horipur SBU #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Horipur SBU #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Horipur SBU #1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Horipur SBU #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Horipur SBU #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Horipur SBU #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Horipur SBU #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Horipur SBU #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Horipur SBU #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Horipur SBU #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Horipur SBU #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Horiput SBU #2 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Horiput SBU #2 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Horiput SBU #2 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Horiput SBU #2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Horiput SBU #2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Horiput SBU #2 Turbine | | | | | | | | | | Calculated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Horipur SBU 100MW & NEPC 110MW | Code: | 30-DMR-504 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Pressure | Horiput SBU #2 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Horiput SBU #2 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Horiput SBU #2 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Horiput SBU #2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Horiput SBU #2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Horiput SBU #2 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Horiput SBU #3 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Horiput SBU #3 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Horiput SBU #3 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Horiput SBU #3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Horiput SBU #3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Horiput SBU #3 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Horiput SBU #3 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Horiput SBU #3 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Horiput SBU #3 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Horiput SBU #3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Horiput SBU #3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Horiput SBU #3 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | NEPC110MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | NEPC110MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | NEPC110MW #1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | NEPC110MW #1 Orifice | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Gas volume flow (instanteneous value) | NEPC110MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | NEPC110MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | NEPC110MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | NEPC110MW #1 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Horipur SBU 100MW & NEPC 110MW | Code: | 30-DMR-504 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised mass flow | NEPC110MW #1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | NEPC110MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | NEPC110MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | NEPC110MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | NEPC110MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | NEPC110MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | NEPC110MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | NEPC110MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | NEPC110MW #1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS14 Madhabdi | Code: | 30-DMR-505 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS15 Tarabo | Code: | 30-DMR-506 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS Dighibarabo | Code: | 30-DMR-507 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS Horipur | Code: | 30-DMR-508 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS Meghnaghat | Code: | 30-DMR-509 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Meghnaghat IPP 450MW P.S. | Code: | 30-DMR-510 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Ph2 Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Ph2 Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Ph2 Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Ph2 Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Ph2 Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Ph2 Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Meghnaghat IPP 450MW P.S. | Code: | 30-DMR-510 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Ph2 Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Ph2 Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Ph2 Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Ph2 Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Ph2 Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Ph2 Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Ph2 Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Ph2 Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Ph2 Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Ph2 Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Ph2 Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Ph2 Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Ph2 Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Ph2 Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Ph2 Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Ph2 Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Ph2 Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Ph2 Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Ph2 Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Ph2 Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Ph2 Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Ph2 Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Ph2 Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Ph2 Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Ph2 Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Ph2 Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Ph2 Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Meghnaghat IPP 450MW P.S. | Code: | 30-DMR-510 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility Ph2 Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Moulavibazar Gas Field | Code: | 30-DMR-701 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Pressure | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |
| | Pressure | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |
| | Pressure | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Moulavibazar Gas Field | Code: | 30-DMR-701 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Pressure | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Bibiyana Gas Field | Code: | 30-DMR-702 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Pressure | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |
| | Pressure | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |
| | Pressure | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Bibiyana Gas Field | Code: | 30-DMR-702 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Pressure | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Jalalabad Gas Field | Code: | 30-DMR-703 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Pressure | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Gas #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |
| | Pressure | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Gas #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |
| | Pressure | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Condensate #1 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Jalalabad Gas Field | Code: | 30-DMR-703 | Rev. | 0 |
| Covered by | Demra | Code: | 30-DMR-100M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Pressure | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure L | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Difference pressure H | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Temperature | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Volume flow (instanteneous value) | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Corrected volume flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised corected volume | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Mass flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | Totalised mass flow | Condensate #2 Orifice | | | COM | | | | | | | Communication with Chevron Server |
| | | | | | | | | | | | | |
| | Pressure | IOC Metering Station | | | COM | | | | | | | Communication with Chevron Server |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | CGS Aminbazar | Code: | 30-PBG-401 | Rev. | 0 |
| Covered by | Petrobangla Head Office | Code: | 30-PBG-700M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | CGS Aminbazar | Code: | 30-PBG-401 | Rev. | 0 |
| Covered by | Petrobangla Head Office | Code: | 30-PBG-700M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | CGS Aminbazar | Code: | 30-PBG-401 | Rev. | 0 |
| Covered by | Petrobangla Head Office | Code: | 30-PBG-700M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | CGS Ashulia | Code: | 30-PBG-402 | Rev. | 0 |
| Covered by | Petrobangla Head Office | Code: | 30-PBG-700M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | CGS Ashulia | Code: | 30-PBG-402 | Rev. | 0 |
| Covered by | Petrobangla Head Office | Code: | 30-PBG-700M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Tongi 80MW P.S. | Code: | 30-PBG-501 | Rev. | 0 |
| Covered by | Petrobangla Head Office | Code: | 30-PBG-700M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 1 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Elenga | Code: | 40-ELE-500 | Rev. | 0 |
| Covered by | Elenga | Code: | 40-ELE-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Elenga | Code: | 40-ELE-500 | Rev. | 0 |
| Covered by | Elenga | Code: | 40-ELE-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Comp. Stn. #1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Comp. Stn. #1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Comp. Stn. #1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Comp. Stn. #1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Comp. Stn. #1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Comp. Stn. #1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Comp. Stn. #1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Comp. Stn. #1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Elenga | Code: | 40-ELE-500 | Rev. | 0 |
| Covered by | Elenga | Code: | 40-ELE-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Comp. Stn. #1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Comp. Stn. #2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Comp. Stn. #2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Comp. Stn. #2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Comp. Stn. #2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Comp. Stn. #2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Comp. Stn. #2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Comp. Stn. #2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Comp. Stn. #2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Comp. Stn. #2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Comp. Stn. #3 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Elenga | Code: | 40-ELE-500 | Rev. | 0 |
| Covered by | Elenga | Code: | 40-ELE-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Comp. Stn. #3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Comp. Stn. #3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Comp. Stn. #3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Comp. Stn. #3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Comp. Stn. #3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Comp. Stn. #3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Comp. Stn. #3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Comp. Stn. #3 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Comp. Station Line 1 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Comp. Station Line 1 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Comp. Station Line 1 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Comp. Station Line 1 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Pressure | Comp. Station Line 2 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Comp. Station Line 2 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Comp. Station Line 2 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Comp. Station Line 2 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Pressure | Comp. Station Line 3 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Comp. Station Line 3 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Comp. Station Line 3 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Comp. Station Line 3 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Pressure | Comp. Station Line 4 | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | Comp. Station Line 4 | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | Comp. Station Line 4 | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | Comp. Station Line 4 | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Narsingdi Gas Field | Code: | 40-MHD-201 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Monohordi | Code: | 40-MHD-500 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 2 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Monohordi | Code: | 40-MHD-500 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 2 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 3 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 3 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Monohordi | Code: | 40-MHD-500 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Base Compressibility | Stream# 3 Orifice | | | | | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 4 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 4 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 5 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Monohordi | Code: | 40-MHD-500 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 5 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | GUFF/PUFF | Code: | 40-MHD-501 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 1 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 1 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 2 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 3 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 4 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | GUFF/PUFF | Code: | 40-MHD-501 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Gas totalised corected volume | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ghorasal PS | Code: | 40-MHD-502 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 2 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Ghorasal PS | Code: | 40-MHD-502 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 3 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 4 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 5 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 5 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 5 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 6 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 6 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 6 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
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## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Joydevpur CGS | Code: | 40-MHD-503 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 2 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 2 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 2 Turbine | | | | | | | | | | Calculated by RTU |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Joydevpur CGS | Code: | 40-MHD-503 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 3 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 3 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 3 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 3 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 4 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 4 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 4 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 4 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 5 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 5 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 5 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 5 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 6 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 6 Turbine | FIELD | RTU | Pt | 100'Ω | | | | | | |
| | Flow count pulse | Stream# 6 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 6 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 7 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Joydevpur CGS | Code: | 40-MHD-503 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Temperature | Stream# 7 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 7 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 7 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 7 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 7 Turbine | | | | | | | | | | Calculated by RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 8 Turbine | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 8 Turbine | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Flow count pulse | Stream# 8 Turbine | FIELD | RTU | PI | | | | | | | |
| | Gas correctec volume flow | Stream# 8 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas totalised corected volume | Stream# 8 Turbine | | | | | | | | | | Calculated by RTU |
| | Gas corrected volume flow | Stream# 8 Turbine | | | | | | | | | | Calculated by RTU |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Poradi VS3 | Code: | 40-MHD-504 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Uzilab VS1 | Code: | 40-MHD-505 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Inlet Pressure | 24" Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | 24" Line | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | 24" Line | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | 24" Line | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Inlet Pressure | 30" Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | 30" Line | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | 30" Line | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | 30" Line | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Khirti VS2 | Code: | 40-MHD-506 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | RTU | FIELD | DO | | | | | | | Future |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Dhanua VS4 | Code: | 40-MHD-507 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Inlet Pressure | | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Valve Status | | FIELD | RTU | DI | | | | | | | |
| | Valve Open Command | | RTU | FIELD | DO | | | | | | | Future |
| | Valve Close Command | | RTU | FIELD | DO | | | | | | | Future |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure L | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 1 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 1 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | | | | | | | | | | | | |
| | Pressure | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |

## List of Data Transmitted

| | | | | | |
|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Dhanua VS4 | Code: | 40-MHD-507 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Difference pressure L | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Difference pressure H | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Temperature | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas volume flow (instanteneous value) | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas corrected volume flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised corected volume | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | Gas totalised mass flow | Stream# 2 Orifice | RX | RTU | COM | MODBUS | | | | | | RX (Flow Computer) prepared by GTCL |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Pipe bore diameter | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Specific gravity | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Pressure | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Temperature | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of CO2 | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Mol% of Nitrogen | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
| | Base Compressibility | Stream# 2 Orifice | RTU | RX | COM | MODBUS | | | | | | Input from MCC/ACC and/or Display mounted on RTU |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | VS-12 Narsingdi | Code: | 40-MHD-508 | Rev. | 0 |
| Covered by | Monohordi | Code: | 40-MHD-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | FIELD | RTU | DI | | | | | | | |
| | Battery status | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure Main Line | FIELD | RTU | AI | 4-20mA | | | | | | |
| | | | | | | | | | | | |
| | Inlet Pressure Narsingdi DRS | FIELD | RTU | AI | 4-20mA | | | | | | |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | RPCL PS Mymensing | Code: | 40-MYM-501 | Rev. | 0 |
| Covered by | Titas Mymensing Office | Code: | 40-MYM-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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## List of Data Transmitted

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|---|---|---|---|---|---|
| CUSTOMER | GTCL | | | DOC. NO. | |
| RTU | Tarakandi | Code: | 40-TRK-500 | Rev. | 0 |
| Covered by | Tarakandi | Code: | 40-TRK-500M | Date | Jan-2011 |
| | | | | JOB NO. | |

| TAG | SERVICE | | FROM | TO | I/O | | | | RANGE | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | I/O | SPEC. | POWER | Qty. | Min | Max | UNIT | |
| | Main power status | | FIELD | RTU | DI | | | | | | | |
| | Battery status | | FIELD | RTU | DI | | | | | | | |
| | RTU door status (Open/Close) | | FIELD | RTU | DI | | | | | | | |
| | Lightning surge arrestor status | | FIELD | RTU | DI | | | | | | | |
| | | | | | | | | | | | | |
| | Pressure | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure L | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Difference pressure H | Stream# 1 Orifice | FIELD | RTU | AI | 4-20mA | | | | | | |
| | Temperature | Stream# 1 Orifice | FIELD | RTU | Pt | 100Ω | | | | | | |
| | Gas volume flow (instanteneous value) | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas corrected volume flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised corected volume | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | Gas totalised mass flow | Stream# 1 Orifice | | | | | | | | | | Calclated by RTU |
| | | | | | | | | | | | | |
| | Orifice bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Pipe bore diameter | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Specific gravity | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Pressure | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Temperature | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of CO2 | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Mol% of Nitrogen | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
| | Base Compressibility | Stream# 1 Orifice | | | | | | | | | | Input from MCC/ACC |
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