

# Annex 1

## KGSP Equipment Description Tables

Equipment Description Tables: Listing the main components, typical dimensions and typical surface finishes for each of the main work sites.

To be annexed to the Design and Access Statement (**Doc Ref 8.3**)

Table 3.1 below should replace the existing Table 3.1 from the Design and Access Statement (**Doc Ref 8.3**).

The other tables below are new summary tables based on previous information supplied across various drawings and documents.



**Table 3.1: Gas Processing Plant (Work No.14 as shown on drawing 13-03-01/HOL/24/510)**

**Typical elevations shown on drawing 13-03-01/HOL/24/270**

Structure	Width	Length	Height	Typical Building Finishes
Control room/workshop	30m	40m	5m	Brick with slate effect pitched roof
Heavy goods store (included in above)	12m	16m	4m	Brick with slate effect pitched roof
Substation	20m	25m	4m	Steel clad building with flat roof Sherwood green
Instrument Room (DCS)	6m	8m	4m	Brick with slate effect pitched roof
Compressor house (2 off)	20m	28m	10m	2m brick,8m steel clad with pitched roof painted Sherwood green
First Gas Fill Compressor and cooler package	6m	28m	7m	Steel clad building with flat roof Sherwood green
Motor coolers (10 off)	6m	8m	4m	Steel clad Sherwood green
Gas coolers (2 off)	18m	22m	5m	Steel clad Sherwood green
Drying towers (4 off)	4m	4m	10m	Steel Sherwood green
Air cooled condenser (2 off)	6m	8m	4m	Steel clad Sherwood green
Regeneration heaters (6 off)	12m	6m	5m	2m brick,3m steel clad with pitched roof painted Sherwood green
Water heaters Building (2 off)	10m	25m	8m	Brick with slate effect pitched roof
Metering station	18m	30m	3m	Process plant
Pig trap area	10m	20m	2m	Process plant
Miscellaneous filters, heat exchangers & vessels located	15m	33m	3m	Process plant

Structure	Width	Length	Height	Typical Building Finishes
across the plant (incl. 5 off 3m dia x 8m high)				
Transformers / VSD's (5 off)	6m	15m	5m	Electrical plant
Glycol regeneration (included as individual items in this table)	15m	35m	5m	Galvanised steel structure with process plant
Glycol storage (2 off)	15m	21m	4m	Process plant
Letdown station	20m	40m	3m	Process plant
STACKS	Dia'	No. off	Height	
Individual regeneration & water heating vents	0.8m	10	10m	Steel Grey
<b>OR</b> Combined regeneration & water heater vents	2.0m	2	20m	Steel Grey
Emergency cold vent (sterile area)	0.6m	1	25m	Steel Grey

**Table 3.2: Solution Mining Compound (Work Nos. 4 & 23 as shown on drawing 13-03-01/HOL/24/512)**

**Typical elevations shown on drawing 13-03-01/HOL/24/271**

Structure	Width	Length	Height	Typical Finishes
Pumphouse for both Weak Brine and Water booster pumps	12.5m	65m	4m	Steel clad building with pitched roof painted green
Pump switchroom (2 off)	10m	20m	3.5m	Steel clad building with flat roof painted green
Control and amenities building	10m	14m	3.5m	Steel clad building with flat roof painted green

Structure	Width	Length	Height	Typical Finishes
Distributed Control System (DCS) building	6m	8m	3.5m	Steel clad building with flat roof painted green
Electrical Compound/ switchroom (Work No.23)	20m	25m	3.5m	Brick building with slate effect pitched roof
Liquid nitrogen storage vaporisation package	8m	16m	3m	Process plant
Liquid nitrogen storage compound	10m	20m	4m	Security fencing green colour
Brine de-gassing tanks (2 off)	15m	20m	4m	Concrete
Within concrete bund	20m	25m	3.5m	Concrete
STACK	Dia	No. off	Height	
Nitrogen vent	80mm	1	9m	Steel grey

**Table 3.3: Gas Marshalling Compounds (Work Nos 20 & 21 as shown on drawing 13-03-01/HOL/24/512)**

**Typical elevations shown on drawing 13-03-01/HOL/24/272**

Structure	Width	Length	Height	Typical Finishes
Compound (including building listed below)	50m	50m	3m	Security fencing green colour
Control kiosk	3m	4m	2.4m	Steel clad building with flat roof painted green
Above ground actuators (for buried valves and pipelines)	<1m Typical	<2.2m Typical	1.5m	Process plant
Security lighting	<1m	<1m	5.5m	Steel grey

**Table 3.4: Electrical 132kV to 33kV Sub-Station (Work No.25 as shown on drawing 13-03-01/HOL/24/511)**

Typical elevations shown on drawing 13-03-01/HOL/24/273

Structure	Width	Length	Height	Typical Finishes
Compound for all equipment listed below:	50m	80m	2.4m	Security fencing green colour
Transformers (2 off)	5m	12m	7m	Electrical equipment
Isolators (5 off)	2.5m	6m	6.5m	Electrical equipment
Power correction equipment	2.5m	3m	4m	Electrical equipment
Control Room	12m	8m	3.6m	Steel clad building with flat roof painted green
Switchroom	12m	20m	3.6m	Steel clad building with flat roof painted green
New 132kV Pylon (1 off) (Adjacent to existing pylon)	5m At base Arms = 14m	5m At base	28m	Structural steel painted grey

**Table 3.5: Wellhead Compound – Drilling Phase (Work Nos. 2A to 2U as shown on drawings 13-03-01/HOL/24/510, 511 & 512)**

Typical elevations shown on drawing 13-03-01/HOL/24/280

Structure	Width	Length	Height	Typical Finishes
Compound for equipment listed below:	60m	80m	2.4m	Herras fencing (temporary)
Drilling Rig (vehicle mounted)	3m	15m	36m	Process drilling equipment
Mud tanks (2 off)	3m	10m	3m	Steel tank
Mud pumps (2 off)	3m	6m	2m	Process plant
Brine /Water tanks (2 off)	3m	6m	2m	Steel tank
Generators (2 off)	2m	5m	2m	Process plant

Structure	Width	Length	Height	Typical Finishes
Cement silos (2 off)	2m	2m	6m	Process plant
Chemical store	3m	5m	4m	Container
Fuel store	3m	6m	3m	Steel tank
Casing racks (3 off)	12m	15m	1m	Steel structure
Pipe bin	2m	10m	2m	Container
Collar bin	2m	10m	2m	Container
Temporary offices (3 off)	3m	10m	3m	Portacabins
Amenities buildings (2 off)	3m	10m	3m	Portacabins
General Stores (2 off)	3m	4m	4m	Container

**Table 3.6: Wellhead Compound – Solution Mining Phase (Work Nos. 2A to 2U as shown on drawings 13-03-01/HOL/24/510, 511 & 512)**

Typical elevations shown on drawing 13-03-01/HOL/24/275

Structure	Width	Length	Height	Typical Finishes
Compound for equipment listed below:	50m	50m	2.4m	Security fencing green colour
Solution mining wellhead	1m	1m	2m	Process plant painted green
Meter House	2.5m	3m	2.5m	Cabin painted green
Sediment collection vessel (marl pot)	1.5m	1.5m	3m	Steel vessel painted green
Sump & sump pump (below ground)	2.5m	2.5m	N/A	Concrete and process plant

**Table 3.7: Wellhead Compound – Gas Operation Phase (Work Nos. 2A to 2U as shown on drawings 13-03-01/HOL/24/510, 511 & 512)**

Typical elevations shown on drawing 13-03-01/HOL/24/276

Structure	Width	Length	Height	Typical Finishes
Compound for equipment listed below:	50m	50m	2.4m	Security fencing green colour
Gas wellhead	1m	1m	4m	Process plant
Control panel	3m	4m	3m	Process plant
Glycol injection package	3m	4m	4m	Process plant
Security camera / light	<1m	<1m	6m	Steel grey

**Table 3.8: Lostock Works (Work No.9 as shown on drawing 13-03-01/HOL/24/503)**

Structure	Diameter	Length	Height	Typical Finishes
Pumping tank	6m	-----	6m	Steel tank painted grey
Surge vessel (in bund)	2.5m	7m	3m	Steel vessel painted grey

**Table 3.9: Whitley Pumping Station (Work No. 11 as shown on drawing 13-03-01/HOL/24/502)**

Typical elevations shown on drawing no. 13-03-01/HOL/24/278

Structure	Width	Length	Height	Typical Finishes
Existing Pumphouse (to be refurbished)	10m	12m	4m	Brick with asphalt flat roof
Surge vessel	1.5m dia	3.5m	2.5m	Steel vessel painted green
Surge vessel bund	5m	6m	0.5m	Concrete
Booster pumps (2 off) (within building)	1m	2.5m	1.5m	Process plant
Sump pumps (2 off)	1m	1m	1m	Process plant



Structure	Width	Length	Height	Typical Finishes
(within building)				
Transformer and compound	3m	4m	2.5m	Security fencing green colour

**Table 3.10: Runcorn Site (Work No.10 as shown on drawing 13-03-01/HOL/24/501)**

**Typical arrangement & elevations shown on drawing 13-03-01/HOL/24/236**

Structure	Width	Length	Height*	Typical Finishes
Pipebridge with walkway (NB: 18m clearance from canal) * Height is from ground level at Runcorn site to top of bridge	5m	50m	15.5m	Structural steel painted grey
Brine discharge pipeline	0.5m dia	600m	-----	Supported by the Pipebridge then buried along Telford Wall before discharge to MSC
Diffuser pipe	0.4m diameter	15m	-----	Submerged at edge of MSC

**Table 3.11: NTS Compound (Work No.12 as shown on drawing 13-03-01/HOL/24/510)**

**Typical elevations shown on drawing No. 13-03-01/HOL/24/274**

Structure	Width	Length	Height	Typical Finishes
Compound for equipment listed below: NB: Compound will be sectioned between National Grid and KGSP operations	50m	60m	3m	Security fencing green colour

Structure	Width	Length	Height	Typical Finishes
Pig trap area	8m	17m	2.4m	Process plant
Above ground actuator (for buried valve and pipeline)	<1.5m	<5m	2m	Process plant
Control equipment kiosk	3m	4m	2.4m	Steel clad cabinet with flat roof painted green
Meter cabinet	0.6m	1.5m	1.5m	Steel clad cabinet with flat roof painted green
Security camera / light	<1m	<1m	6m	Steel grey