



EGAS Pvt. Limited

Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Registrar

Oil & Gas Regulatory Authority
Blue Area, Islamabad

17th December 2019

OGRA/EGAS/Kabir/2-2019

*Telephonically
Informed Applicant
to clarify letter
referred.*

**APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY
COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE,
TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS AT
KABIR X-1, GAMBAT SOUTH DISTRICT SANGHAR**

Sir,

1. This is in continuation of our letters on the subject dated OGRA/EGAS-24. Please find enclosed following documents as per NGRA Licensing Rules 2002.

Clause 4 sub-rule 1

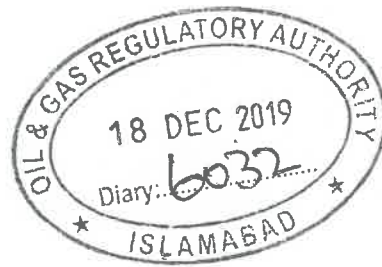
- a) Attested copies of the memorandum and articles of association of the applicant
- b) Certificate of commencement *(attached)*
- c) Attested copy of yearly submission to Registrar of companies *(attached)*
- d) Attested copy of the latest audited (annual) yearly and un-audited half yearly financial statements and *(attached)*
- e) Details of consents *(Not Applicable)*
- f) Technical and Financial Expertise *(attached)*
- g) Handling of Emergency situations *(attached)*
- h) Applicant holds interest in other companies *(Not Applicable)*
- i) List of all petitions *(Not Applicable)*
- j) Details of market data *(attached)*
- k) Any other information *(Not Applicable)*
- l) Petitions filed with Authority (None)
- m) Market data *(attached)*
- n) Any other Information *(attached)*

Clause 5

- a) Maps *(attached)*
- b) Sources and Quality of Natural Gas *(attached)*
- c) Safety and Service Obligations *(attached)*
- d) Technical Specifications of distribution *(attached)*

Clause 6

Relevant documents attached.



*Amir
SED Gas
ED(FI)@
A/10
17/12/2019*

2. 17/12/19

2. Should you require further information, feel free to contact us. You are requested to process our application for License.

Sincerely Yours,

Yasir Raza
CEO



3. Please examine

AR
4. Put up, plz.

Amir
18/12/19
19/12

Schedule I

[see Rule 4 (2)]

OIL & GAS REGULATORY AUTHORITY

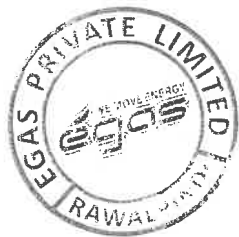
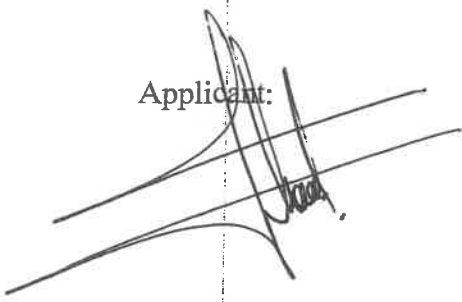
Application Form

Ref. No. _____

Date: 7th Dec 2019

- 1. Name of Company (Applicant): **EGAS Pvt Ltd**
- 2. Company's full address along with telephone, fax, e-mail and web details
300 Peshawar Road Rawalpindi-Pakistan
Tel: +92051-5125181-5
Fax: +92-51-5125186
ceo@egas.com.pk
www.egas.com.pk
- 3. Name, title and authorized signature of the company's Chef Executive:
Yasir Raza
CEO
- 4. Name and addresses of current Directors of the Applicant:
Yasir Raza **CEO/ Director**
Dr Taimur Raza **Director**
Hassan Raza **Director**
Muhammad Raza **Director**
- 5. Name and Addresses of any person or corporate body with a holding of more than one percent 1% or more in the Applicant:
Not Applicable

Applicant:



1. Regulated Activity for which a license is sought:

- (a) Transmission License _____
- (b) Distribution License _____
- (c) Sale License
- (d) Integrated License _____
- (e) Project License _____

2. Nature of License applied for (if exclusive, please provide detailed justifications):

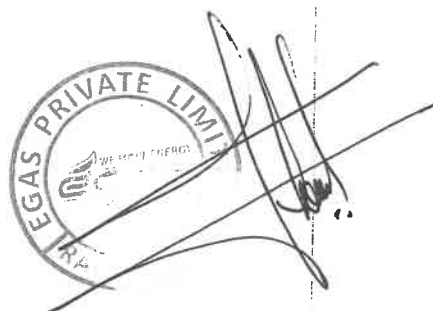
- Exclusive _____
- Non-Exclusive

3. Period for which the license is sought:

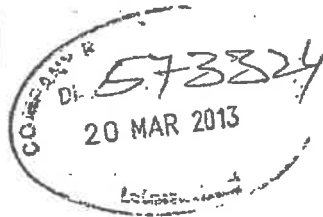
From: 17th December 2019
To: 16th December 2024

4. Details of any license held, applied for, or applied for and refused under the rules, by the applicant or any of the interested parties, or any of their affiliated or related undertakings:

License for regulated activities related to compression facility of low-pressure flare gas, storage, transportation and marketing of CNG and Natural Gas Rajian field



**UNDER THE COMPANIES ORDINANCE 1984
(COMPANY LIMITED BY GUARANTEE)**



**MEMORANDUM AND ARTICLES OF
ASSOCIATION**

OF

EGAS (PRIVATE) LIMITED



THE COMPANIES ORDINANCE, 1984
(Company limited by shares)

MEMORANDUM OF ASSOCIATION

OF
EGAS (PRIVATE) LIMITED

- I. The Name of the Company is **EGAS (PRIVATE) LIMITED**.
- II. The Registered Office of the Company will be situated in Islamabad Capital Territory.
- III. The objects for which the Company is established are to undertake all or any of the following business.
1. To carry on the business of selling Compressed Natural Gas (CNG) for automotive vehicles, both wholesale and retail, Liquefied Petroleum Gas (LPG) and other products or things of all kinds capable of being used or dealt with by the company in connection with any of its objects.
 - 1.1 To enter the work business of buying and selling of Liquefied Natural Gas (LNG), both wholesale and retail sales and manufacture, assemble, import and export, buy, sell and repair any machinery, components, parts, accessories, auxiliaries fitting and installations, cylinder testing labs, to undertake repairing and replacement of low and high pressure compressors unit, to manufacture gas kits and cylinders or any of its objects thereof related to LNG, LPG & CNG
 2. To manufacture, assemble, import and export, buy, sell and repair any machinery, components, parts, accessories, auxiliaries fitting and installations, to undertake repairing and replacement of CNG low and high pressure compressors unit, to manufacture gas kits and cylinders or any of its objects thereof.
 3. To carry on the business of purchase or otherwise acquire, process, sale, store, transport, market, distribute, supply, sell, import, export, and otherwise dispose of and generally trade in any and all kinds of petroleum and petroleum products, oil, natural gas, hydrocarbons, petrochemicals, asphalt, bituminous substances and to undertake all such activities as are connected herewith or ancillary thereto and to take over the running or likely to be running business of alike nature with or without assets, liabilities, rights, privileges, registration, trade mark, import and export registration or any other facility.
 4. To import, export, transport, market, distribute and sale Natural Gas, Liquefied Natural Gas, Liquefied Petroleum Gas and to facilitate production of Natural Gas, LNG, LPG.



- 5
5. 2. To establish, install, own, purchase or otherwise acquire on rent, manage and maintain, offices, stations, plant, machinery and apparatus used for the storage, process, transmission, distribution and use of petroleum and petroleum products.
 6. To acquire by purchase and give on lease, grant or hire, assign to, transfer, exchange or otherwise, land premises gardens and to erect building or houses for factory, laboratory etc, and to carry on any business capable of being conducted so as to directly benefit the company.
 7. To carry on the business of importers, and exporters and general merchants of all kind of goods, commodities, and merchandise from or to all countries in the world.
 8. To buy, sell, let on hire, repair any machinery, components, parts, accessories and fittings of all kinds or things mentioned above or used in or capable of being used in connection with the manufacture, maintenance and working thereof.
 9. To search for and to purchase or otherwise acquire from any Government, state or authority licenses, concession, decrees, rights, power and privileges, whatsoever which may to the company capable of being turned to account and in particular any powers, rights, or concessions for the purpose of obtaining motive power or otherwise and to work, develop, carryout, exercise and to turn to account the same.
 10. To carry on business as Ice Cream manufacturers, confectioners, bakers, sweet manufactures, corn food dealers, and to run and manage provisions, Flying Coach/Wagon point, general and departmental farms and to deal in their products.
 11. To carry on business of raising, crushing, preserving, canning, dehydrating and dealing in fruits, vegetables, herbs and to turn them into juices, squashes, jams, marmalades, syrups, chutnies, murrabbas and other edibles.
 12. To carry on business as manufacturers, sellers, distributors of or dealers in:-
 - a) Preserved food of all sorts, viz: meat, fish, poultry vegetables, cereals, fruits, soups, chutnies, murrabbas and other edibles.
 - b) Dehydrated meats, vegetables and fruits of all sorts.
 - c) Concentrated and vitaminized, enriched foods and drinks of all sorts, including dietic preparations.
 13. To install, establish, administer, run and operate sugar and Ghee Mills, Rice and Flour Mills, Oil Mills, Ice Factories, cold storages and to deal in their products and allied preparations.



14. To produce, manufacture, imports, export, buy, sell or otherwise deal in all kinds of items of food products, allied preparations and machineries, factories, Mills, producing such items.
15. To apply for, tender, purchase, or otherwise acquire any contracts and concessions for or in relation to the designing, construction, execution, supervision, improvement, administration and/or control of works and conveniences.
16. To sublet any contracts from time and upon such terms and conditions as may be thought expedient.
17. To carry on business as manufacturers exporters, importers of and dealers in priestesses concrete structure, recast building components, asbestos cement pipes, sheets and all other kinds of products of Concrete, Cement, Asbestos etc., and to manufacture, heat-parts wrapping materials, and other asbestos products.
18. To import, export, manufacture, produce, buy, sell, improve, treat, refine, distribute and otherwise deal in bones and animals products and allied industries.
19. To manufacture, produce, import and export all raw materials, chemicals, consumable stores, machineries, machinery parts and all items required for Plastic, Nylon, Chemical and allied industries.
20. To manufacture, produce, deal in soap (Laundry, Toilet or in any other form) Glycerin and Explosives subject to any permission required under the law.
21. To manufacture, produce, deal in all types of building materials, Cement, Bricks Plasters, Whittings, Tiles, Pipes, Pottery Earthenware, building requisite or material, China and Terra-cotta, Porcelain, Ceramic ware of all kinds, Sanitary fittings, Machinery and other appliances, Clays, Sand, Gravel, Mineral, Gypsum, Lime, Coal, Coke, Fuel, Artificial and other Stones, Woods, timbers, boards, jute, and synthetic material, and other allied products.
22. To arrange execution of sub-licenses, lease, surrenders, gift and sale deeds etc, for all types of properties.
23. To carry on the business of General and Government Contractors, and General Order Suppliers.
24. To enter into agreement with or provide on rent equipments and plants of the Company to any Government Authorities, or persons, and obtain from any such Government or other authorities all rights, concessions and privileges that may seem conducive to all or any of the Company's objects.



- (7)
25. To enter into and carry into effect any arrangement for joint venture in business or for sharing of profits or amalgamation with any other Company or any partnership with person or persons having objects similar to those of the Company.
 26. To form, incorporate and or promote any company or companies whether in Pakistan or in any country, having object or objects which are similar to the objects of the company or otherwise advantageous to the company, to pay all or any of the costs and expenses incurred in connection with any such promotion and or incorporation and to remunerate any person or company in any manner it shall think fit for services rendered or to be rendered in furthering the business of the company.
 27. To carry on all or any business, trade, profession, industry, or commerce, in Pakistan or elsewhere of manufacturers, Fabricators, assemblers and builders of goods, machinery, equipments, materials, plants, products, buildings, construction, transport, mines, quarries, exploitation of property of all kinds and description.
 28. To carry on the business of producers, buyers, distributors, sellers, agency holders, importers and exporters of all kind of merchandise in raw and processed form.
 29. To setup and operate soil and concrete testing laboratories.
 - a) To enter into agreement with any Government or Authority, Provincial, Federal, District, Municipal, local or any person or persons all rights, concessions, Licenses, Orders, and privileges that may seem conducive to the company's objects.
 30. To carry out construction, and slope stabilization works.
 31. To invest and re-invest the money of the company not immediately required for the business of company in shares or securities of other companies and to sell the same.
 32. To furnish and provide deposits and guarantee funds required in relation to any tender or application for any contract, concession, decree or enactment.
 33. To install and establish industries for manufacturing electrical and electronic goods i.e. calculators, computers equipments; appliances and apparatus, amplifiers, loudspeakers, radios, transistors, T.V. sets, electric bulbs and tubes, wires, cables, intercommunication sets, transformers, capacitors, switches, starters and power factor improvement units, sheet metals, utensils, asbestos sheets and other industries of metals, alloys and allied items and Bye-products.
 34. To carry on the business of iron-founders, mechanical engineers, manufacturers of machinery and implements of all kinds, tool makers, welders, brass founders, metal workers, boiler-makers, welders, brass founders, metal workers, boiler-makers, mill-weights, iron and steel converters, smiths, wood-workers, engineers, gas generators, and to buy, sell, manufacture, repair, convert, alter, let on hire, and deal in machinery,



8

implements, rolling stock, and hardware and electrical wares of all kinds, and to carry on any other business which may seem to the company capable of being conveniently carried on in connection with the above, or otherwise calculated, directly or indirectly, to enhance the value of any of the company's property and rights or improve its earning capacity.

- 35. To manufacture, sell, buy, import, export or otherwise deal in material used for erection and construction of residential houses, commercial centers, industrial units and any other type of construction including glass sheets, cement, steel, pipes, sand, concrete, bricks, blocks, pre-stressed beams and girders, tiles, chips, asbestos sheets, tin sheets, false ceilings, frames, gates, doors, windows, ventilators, sanitary wares, decoration items, electric fittings and allied, auxiliary and ancillary items and or any material.
- 36. To arrange for the formation, registration and establishment or recognition of the company in foreign country or place in any part of the world in accordance with the law of that country or place from time to time.
- 37. To carry on the business of shippers and carries by land and water, and by sea, railway, air and ship-owners, ship and operate and own fleet of road or other transport.
- 38. To carry on the business of hotels and restaurants, grocers and general merchants, manufacturers of canned fruits and vegetable, aerated and other soft drinks, making of ice and cold storages.
- 39. To create any depreciation fund, reserve fund, provident fund, building funds, insurance fund or any special or other fund for improving, repairing, extending or maintaining any of the property or redemption of any loan or for any other purpose as deem fit for the company.
- 40. To secure any loan for company and to create any charge, to mortgage, hypothecate any of the property or assets of the company and secure such loan and invest such money in purchase of machinery, building, land or any other assets or as expedient fit for the betterment of the company.
- 41. To draw accept, make, endorse, discount, execute, retire issue and negotiate promissory notes, hundies, bills of exchange, bills of entry and other negotiable or transferable instruments, except doing the business of a banking or investment companies.
- 42. To do all or any of the above things in any part of the world and as principals, agents, brokers, contractors, trustees or otherwise and by or through trustees, agents, brokers or otherwise and either alone or in conjunction with others.
- 43. To do all other things as may be deemed incidental or conducive to the attainment of the above objects or any of them, not mentioned here-in-above.



44. Notwithstanding any thing contained in the objects of the company nothing shall be construed to empower the company to do or indulge in the business of banking, investment, insurance, prepayment scheme, leasing or managing agency directly or indirectly as restricted by the law or any unlawful business or operation.

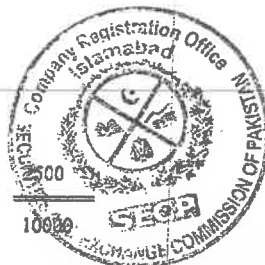
IV. The liability of the members is limited.

The authorized share capital of the company is Rs. 50,000,000/- (Rupees fifty million only) divided into 5,000,000 ordinary shares of Rs.10/- each with power for the company to increase or reduce the capital and to divide the shares in the capital for the time being into several classes and subject to the permission under the companies under the Companies Ordinance, 1984.



We the several persons whose names and addresses are subscribed hereto are desirous of being formed into a Company, in pursuance of these Memorandum of Association, and we respectively agree to take the number of shares in the capital of the Company set opposite our respective names:

S. No.	Names, addresses and Description of Subscribers	Number of Shares	of of Subscribers	Signature
1.	Taimur Raza S/o Muhammad Raza H No. 14-A F-8 Markaz Kaghan Road, Islamabad Business Pakistani N.I.C No 61101-1912245-7	2500		
2.	Yasir Raza S/o Muhammad Raza H No. 5, St No 67, F-7/3 Islamabad Business Pakistani N.I.C No.61101-1912249-1	2500		
3.	Hassan Raza S/o Muhammad Raza H No. 14-A F-8 Markaz Kaghan Road, Islamabad Business Pakistani N.I.C No.61101-1912215-5	2500		
4	Muhammad Raza S/o Shah Muhammad H No. 14-A F-8 Markaz Kaghan Road, Islamabad Business Pakistani N.I.C No.61101-1912251-7			
	Total			



Dated this _____ day of _____ 2006

Witness to the above signatures
Mr. Abdul Majid Khan S/O Abdul Majeed Khan
203, 87-East Second Floor, Azeem Mansion
Fazal ul Haq Road, Blue Area, Islamabad.

CERTIFIED TO BE TRUE COPY
[Signature]
 8/21/06
 Deputy Registrar
 Registration Office Islamabad

No. ADI _____

Dated _____

THE COMPANIES ORDINANCE, 1984
(COMPANY LIMITED BY SHARES)
ARTICLES OF ASSOCIATION
OF
EGAS (PRIVATE) LIMITED

PRELIMINARY

- 1. The regulations contained in Table 'A' shall, save as hereinafter appearing, apply to the Company so far as these are applicable to a private company limited by shares.

DEFINITIONS

- 2. In these presents:

- (a) "Board" means the Board of Directors for the time being of the Company;
- (b) "Company" or "the Company" means "EGAS (PRIVATE) LIMITED".
- (c) "Section" means section of the Ordinance;
- (d) "Table A" means Table A contained in the First Schedule of the Ordinance;
- (e) "The Ordinance" means the Companies Ordinance, 1984;
- (f) "The Seal" means the Common Seal of the Company;
- (g) "These presents" means the Memorandum and Articles of Association of the Company as amended from time to time and resolutions of any nature of the Company.

- 3. Unless the context otherwise requires, words or expressions contained in these presents shall have the same meaning as assigned to them in the Ordinance; and words importing the singular shall include the plural, and vice versa, and words importing the masculine gender shall include females, and words importing persons shall include bodies corporate.

PRIVATE LIMITED COMPANY

- 4. The Company is a Private Company Limited by shares within the meaning of clause 28, Sub-section (1) of Section 2 and accordingly;

- (a) No invitation shall be issued to the public to subscribe for any shares of the Company;
- (b) The number of the Members of the Company (exclusive of the persons in the employment of the Company) shall be limited to fifty provided that for the provision of this clause when two or more persons hold one or more shares jointly in the Company, they shall be treated as a single member; and
- (c) The right to transfer shares in the Company is restricted in the manner and to the extent hereinafter stated.



BUSINESS

- 5. The business of the Company shall be restricted exclusively to the objects enumerated in the Memorandum of Association and may be commenced soon after the incorporation of the

company as the directors shall think fit and notwithstanding that a part of the capital has been subscribed.

CAPITAL AND SHARES

6. The authorized share capital of the Company is Rs. 50,000,000/- (Rupees fifty million only), divided into 5,000,000 Ordinary Shares of Rs. 10/- each. However, the Company may, in its general meeting, increase, reduce, consolidate, divide, sub-divide, cancel or otherwise vary rights of its shares or reorganize its share Capital under the law for the time being in force.
7. the same under the law for the time being in force.
8. The shares in the capital of the Company may be issued or allotted in payment or part payment of any property, land, building, machinery, or goods supplied or any services rendered to the Company or conduct of its business and any shares so allotted may be issued as fully paid up.
9. The Directors may raise and secure payment of any sum by issue of Term Finance Certificates. The Term Finance Certificates/Participation Term Certificates may be issued at a discount, premium or otherwise with special privilege as to redemption, conversion into Term Finance Certificates.
10. Except to the extent and in the manner allowed by Section 95, no part of the funds of the Company shall be employed in the purchase of, or in loans upon the security of, the Company's shares.

CERTIFICATE

11. Every person whose name is entered as a member in the Register of Members shall, without payment, is entitled to a certificate under the common seal of the Company specifying the share or shares held by him. However, the Company shall not be bound to issue more than one certificate, and delivery of a share certificate to any one of the several joint holders shall be sufficient delivery to all.
12. If a certificate is defaced, lost or destroyed, it may be renewed on payment not exceeding ten rupees and on such terms as to evidence and indemnity and payment of expenses incurred by the Company in investigating title as the Directors think fit.

TRANSFER AND TRANSMISSION OF SHARES

13. As provided under Section 76(1), no shares of the Members of the Company shall be transferred unless the Transfer Deeds are properly stamped, signed, and at least majority of the Directors of the Company have approved the transfer of the shares applied for.
14. The Directors may decline to register any transfer of shares, and may refuse to register any transfer to a transferee (not being an existing shareholder) whom they do not approve, and shall not be bound to show any reason for exercising their discretion. The Directors may also decline to transfer any share, the registration of which will involve a contravention of Article 4 above, but in all cases the Company shall have regard of Sections 76 to 81.
15. No fee shall be charged for any transfer if approved by the Directors.
16. In case the Directors refuse to register a transfer of any shares, they shall, within one month from the date on which the instrument of transfer was lodged with the Company, give to the



transferor and the transferee, notice of the refusal as required by sub-section (1) of Section 78.

- 17. No shares can be mortgaged, pledged, sold, hypothecated, transferred or disposed of by any member to a non-member without the previous sanction of the Directors except that the members may pledge their shares with bank(s) as a collateral security for any advance to the Company, if required.
- 18. The legal heirs, executors, administrators or nominees of a deceased shareholder shall be the only persons to be recognized by the Directors as having any title to the share. In case of shares registered in the name of two or more holders, the survivors and the executors of the deceased shareholder shall be the only person to be recognized by the Company as having any title to shares.

GENERAL MEETING

- 19. The Annual General Meeting of the Company shall be held in accordance with the provisions of Section 158 with due notice once at least in every year and within a period of four months following the close of its financial year at such time and place as may be prescribed by the Directors, and not being more than 15 months after the holding of the preceding General Meeting. The Directors may, with a notice whenever they think fit, call an extraordinary General Meeting. An Extraordinary General Meeting may also be called at the request of members representing at least one-tenth of the voting power of the Company on date of deposit of the requisition. Any requisition made by such members shall express the object of the meeting proposed to be called and be left at the registered office of the Company as provided in the Ordinance.

PROCEEDINGS AT A GENERAL MEETING

- 20. At least twenty-one days' notice shall be given specifying the nature of business to be transacted, the place, the day and time of the General Meeting. An accidental omission to give such notice or non-receipt of such notice by any member shall not invalidate the proceedings of the General Meeting. No business shall be transacted in any General Meeting unless a quorum is present. Two members present in person and having not less than 25% of total voting power in their own account or through proxies shall form the quorum for the General Meeting.
- 21. The Chairman of the Board of Director, if any, shall preside as Chairman at every General Meeting of the Company, but if there is no such Chairman or if at any meeting he is not present within fifteen minutes after the time appointed for the meeting or is unwilling to act as Chairman, any-one of the Directors present may be elected to be the Chairman.
- 22. The Chairman, with the consent of any meeting at which a quorum is present, may (and shall, if so directed by the meeting) adjourn the meeting from time to time and from place to place, but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place.
- 23. No person shall act as proxy unless he is a member. An instrument appointing a proxy shall be in the form as prescribed in clause 39 of Table 'A' and the instrument of proxy shall be deposited at the registered office of the company not later than forty-eight hours before the



time for holding the meeting at which the person named in instrument proposes to vote and in case of default the instrument of proxy will become invalid.

- 24. At any General Meeting a resolution placed before the meeting shall be decided on a show of hands, unless a poll is demanded in accordance with the Provision of Sections 167 and 168.
- 25. On a poll every member shall have voting right as laid down in Section 160.
- 26. On a show of hands every member present in person shall have one vote, and on a poll every member shall, whether present in person or by proxy, have one vote in respect of each share held by him but subject to regulation 34 of Table A.
- 27. In case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting at which the show of hands takes place, or at which the show of hands takes place, or at which the poll is demanded, shall be entitled to a second or casting vote as provided under Regulation 33 of Table 'A'.

NOTICE

28.

- (a) A notice may be given by the company to any member either personally or by sending it by post to him or to his last registered address (if he has no registered address in Pakistan) to the address, if any, within Pakistan supplied by him to the Company for the giving of notice to him.
- (b) Where a notice is sent by post, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting a letter containing the notice and to have been effected at the time at which the letter would be delivered in the ordinary course of post.

DIRECTORS AND CHIEF EXECUTIVE

29.

- (a) The Directors of the Company shall fix the number of the elected Directors of the Company not later than 35 days before convening of the General Meeting in which Directors are to be elected. The number of Directors shall not be less than two and the number so fixed shall not be changed except with the prior approval of a General Meeting or the Company.
- (b) The Chairman of the Board of Directors and the Chief Executive shall be among the Directors or any other person appointed by the Directors in this regard.
- (c) The following persons shall be appointed first director of the company and hold office till the First Annual General Meeting of the Company and are eligible for re-election as Directors of the Company.
 - 1. Taimur Raza
 - 2. Yasir Raza
 - 3. Hassan Raza
 - 4. Muhammad Raza



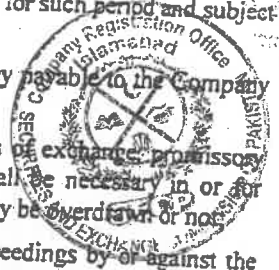
- 30. The Directors may appoint one of the Directors or any other person as the Chief Executive of the Company, in the manner provided in Section 198 and Section 199, and he will hold his office till First Annual General Meeting or for a period of three years unless or until he becomes incapable for this post for any reason, or he may be removed by the Directors as provided in Section 202. The said Chief Executive shall be paid such remuneration as may be decided by the Directors from time to time.
- 31. The election of Directors shall be held in accordance with the provisions of Section 178 in the following manner:
 - (a) A member shall have such number of votes as is equal to the product of the number of voting shares or securities held by him and the number of Directors to be elected.
 - (b) A member may give all his votes to a single candidate or divide them between more than one of the candidates in such manner as he may choose.
 - (c) The candidate who gets the highest number of votes shall be declared elected as Director, and then the candidate who gets next highest number of votes shall be so declared, and so on until the total number of Directors to be elected have been so elected.
 - (d) The Directors including the Chief Executive, if any, shall hold office for a period of three years, unless he resigns earlier or becomes disqualified from being a Director or otherwise ceases to hold office.
- 32. A resolution for removing a Director appointed/elected in the manner provided for in Article 29 and 31 above shall not be deemed to have been passed except as provided in Section 181.
- 33. The qualification of a Director shall be the holding of one Ordinary Share in his own name subscribed either in cash or in kind, except those of nominee's Directors or Technical Directors appointed by the Board.
- 34. The remuneration of Directors (other than the regularly paid Chief Executive and whole-time working Directors) shall not exceed Rs. 500/- per meeting at which the Directors are present.
- 35. The Directors may sanction the payment of such additional sums as they may think fit to any Director for any special service he may render to the Company or be thought capable of rendering such service but shall be subject to the approval of the shareholders in a General Meeting.
- 36. The Directors who reside out of station shall also be entitled to be paid such traveling and other expenses for attending the meetings of the Company as may be fixed by the Directors from time to time and approved by the shareholders in the General Meeting.
- 37. Any casual vacancy occurring on the Board of Directors may be filled in by a resolution of the Directors, and the person so appointed shall hold office for the remainder of the term of the Director in whose place he is appointed as provided under Section 180 (2).
- 38. A Director may, and the Secretary on the requisition of a Director shall, at any time summon a meeting of Directors.
- 39. The quorum necessary for the transaction of the meeting of the Directors may be fixed by the Directors, and unless so fixed shall be two.
- 40. No Director shall be disqualified from his office by contracting with the Company, either as



vendor, purchaser or otherwise, nor shall any Director be liable to account for any profit realized from any such contract or arrangement or the fiduciary relation thereby established, but the nature of his interest must be disclosed by him at the first meeting of the Directors after acquisition of his interest, and that no Director shall vote in respect of any contract or arrangement in which he is interested or in any subsequent transaction with such firm or company.

MANAGEMENT

- 41. The whole business and affairs of the Company shall be conducted or managed by the Directors, who shall have all powers, authorities and discretion as are given by the Ordinance or by any other law for the time being in force or may be entrusted by these presents.
- 42. The Directors may from time to time raise or borrow any sums of money for and on behalf of the Company from the members or other persons, companies or banks or may themselves advance to the Company such sums on such terms as may be approved by the Directors from time to time in their meetings.
- 43. Without prejudice to the powers conferred by these presents, the Directors shall, have the following powers that is to say, powers: -
 - (a) To receive money or goods on behalf of the Company;
 - (b) To sell, deal in and dispose of all articles and goods of the Company;
 - (c) To engage, fix and pay the remuneration and dismiss or discharge for all managers, agents, secretaries, clerks, servants, workmen and other persons employed in or in connection with the Company's business;
 - (d) To appoint any person or persons to be Attorney or Attorneys of the Company for such purposes and with such powers, authorities and discretion and for such period and subject to such conditions as he may from time to time think fit;
 - (e) To make and give receipts, releases and discharges, all money payable to the Company and/or for the claims and demands of the Company;
 - (f) To draw, accept, endorse and negotiate all such cheque, bills of exchange, promissory notes, undines, draft, Government and other securities as shall be necessary in or for carrying on the affairs of the Company, whether the account may be overdraft or not;
 - (g) To institute, compromise, withdraw or abandon any legal proceedings by or against the Company or its officers or otherwise concerning the affairs of the Company;
 - (h) To give to any officer or other person employed or contracted by the Company a commission on the profits of any particular business or transaction of the Company but as permitted under the law, and commission shall be treated a part of the working expenses of the Company;
 - (i) To provide for the welfare of the employees or ex-employees of the Company and the wives, widows or families or the dependents or connections of such persons in such manners as he may think fit;
 - (j) To delegate any of these powers to any persons, agent, or managers as he thinks fit;
 - (k) To open current accounts or letters of credit for any amount with any bank or banks and



to give instructions for operation of such accounts;

- (l) To appear before any civil, criminal, revenue, excise, income-tax and other authorities for and on behalf of the Company and to sign any statement or documents on behalf of the Company and to sign power of Attorney, etc., on behalf the Company in favor of any person to represent, defend and safeguard the interests of the Company;
- (m) To enter into all such negotiations and contracts and rescind or vary all such contracts and do all acts, deeds and things, in the name and on behalf of the Company as they may consider necessary, expedient or proper, or in relation to any of the matters aforesaid or otherwise, for the purposes of the Company;
- (n) To invest or advance money against real, personal, or other security and to give effectual discharge for moneys payable to Company and for its claims and demands;
- (o) To purchase or take on lease or otherwise acquire for the Company land, buildings, rights and privileges for the purpose of offices, shops or premises of the Company at such prices and generally on such terms as they may think necessary and expedient to building, altering and furnishing offices, houses, and premises and let or sub-let any such houses or premises either in portion or otherwise;
- (p) To demand and enforce payment, delivery, transfer of any dues for recovery and receive from all and every persons, body-corporate or corporations, firms or companies whatsoever, all money, securities for money, debts and claims of all kinds and demand enforce delivery and receive and take possession of moneys, securities, shares and goods produced and property of all kinds, whether belonging to the Company as security or in trust or hold any person or company in trust or by way of security for the Company.
- (q) To deal with, make arrangements, sign contracts with government, semi-government, autonomous bodies, corporations and local governments, institutions, etc.

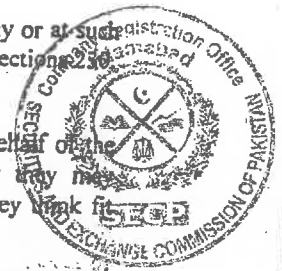
ACCOUNTS

44. The Directors shall cause to be kept proper books of account with respect to:

- (a) All sums of money received and expended by the Company and matters in respect of which the receipt and expenditure take place;
- (b) All sales and purchases of goods made by the Company;
- (c) All assets and liabilities of the Company;
- (d) The books of accounts shall be kept at the registered office of the Company or at such other place or places as the Directors shall think fit, subject to provisions of Sections 209 and 210 of the Companies Act, 1956.

BORROWING POWERS

- 45. The Directors may from time to time borrow any sums of money for and on behalf of the company from the members, companies, banks, or financial institutions or any person and may themselves advance money to the company on such terms and conditions as they think fit without indulging in the business of an investment company.
- 46. The directors may from time to time secure the payment of such money in such manner and upon such terms and conditions in all respects as they may think fit as in particulars by the issue of debentures or participation certificate, modaraba certificate, musharika certificate, term



finance certificate, pre-organization or such other investment as the federal Government may, by notification in the official gazette specify for the purpose, or bonds of the company of by mortgage charge upon some or all the assets of the company.

- 47. Any debentures, bonds, or other securities may be issued at a discount, premium or otherwise and with special privileges subject to the approval required under the law.

INDEMNITY

- 48. Every officer or agent for the time being of the Company may be indemnified out of the assets of the Company against any liability incurred by him in defending any proceedings, whether civil or criminal, arising out of his dealings in relation to the affairs of the Company, except those brought by the Company against him, in which judgment is given in his favor or in which he is acquitted, or in connection with any application under Section 488 in which relief is granted to him by the Court.

SECRECY

- 49. No person shall be entitled to visit or inspect any office, work of the Company without the previous permission of the Chief Executive, Directors or the person duly authorized by them or to require any matter which is or may be in the nature of a trade secret or process which may relate to the conduct of the business of the Company and which in the opinion of the Directors will be inexpedient in the interest of any person of the Company to communicate to the public.

THE SEAL

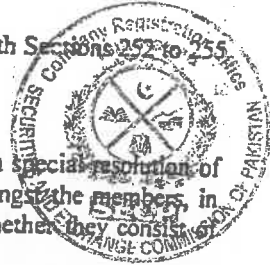
- 50. The Directors shall provide for the safe custody of the seal, and the seal shall not be affixed to any instrument except by the authority of a resolution of Directors or by a Committee of Directors authorized in that behalf by the Directors and in the presence of at least two Directors and of the secretary or such other person as the Directors may appoint for the purpose; and those two Directors and secretary or other person as aforesaid shall sign every instrument to which the seal of the Company is so affixed in their presence.

AUDIT

- 51. Auditors shall be appointed and their duties regulated in accordance with Sections 252 to 255 or any statutory modification thereof for the time being in force.

WINDING UP

- 52. If the Company is wound up, the liquidator may, with the sanction of a special resolution of the Company and any sanction required by the Ordinance, divide amongst the members, in cash or kind, the whole or any part of the assets of the Company, whether they consist of property of the same kind or not.
- 53. For the purpose aforesaid, the liquidator may set such value as he deems fair upon any property to be divided as aforesaid any may determine how such division shall be carried out as between the members or different classes or members.
- 54. The liquidator may, with the like sanction, vest the whole or any part of such assets in trustees upon such trusts for the benefit of the contributories as the liquidator, with the like sanction, thinks fit, but so that no member shall be compelled to accept any shares or other securities whereon there is any liability.



We the several persons whose names and addresses are subscribed hereto are desirous of being formed into a Company, in pursuance of these Articles of Association, and we respectively agree to take the number of shares in the capital of the Company set opposite our respective names:

S. No.	Names, addresses and Description of Subscribers	Number of		Signature
		Shares	Subscribers	
1.	Taimur Raza S/o Muhammad Raza H No. 14-A F-8 Markaz Kaghan Road, Islamabad Business Pakistani N.I.C No 61101-1912245-7	2500		
2.	Yasir Raza S/o Muhammad Raza H No. 5, St No 67, F-7/3 Islamabad Business Pakistani N.I.C No.61101-1912249-1	2500		
3.	Hassan Raza S/o Muhammad Raza H No. 14-A F-8 Markaz Kaghan Road, Islamabad Business Pakistani N.I.C No.61101-1912215-5	2500		
4.	Muhammad Raza S/o Shah Muhammad H No. 14-A F-8 Markaz Kaghan Road, Islamabad Business Pakistani N.I.C No.61101-1912251-7	2500		
Total		10000		



CERTIFIED TO BE TRUE COPY

[Signature]
8/2/18
Deputy Registrar
Company Registration Office Islamabad

Dated this _____ day of _____ 2006

Witness to the above signatures
Mr Abdul Majid Khan S/O Abdul Majeed Khan
203, 87-East, Second Floor, Azeem Mansion
Fazal ul Haq Road, Blue Area, Islamabad.



EGAS Pvt. Limited

Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Company registration No. 005960/20061001

October 12 2011

**EGAS PRIVATE LIMITED
COMPANY LIMITED BY SHARES
(Incorporated in Islamabad Pakistan)**

CERTIFICATE OF COMMENCEMENT OF BUSINESS

This is to inform you that the company was duly formed under the Companies Ordinance 1984(XLVII of 1984) on 6th October 2006 and commenced business on 7th October, 2006.

Signed as the director & CEO of the company:

**Yasir Raza
CEO**





CERTIFICATE OF INCORPORATION

[Under section 32 of the Companies Ordinance, 1984 (XLVII of 1984)]

Company Registration No. 00000005960/20061001

I hereby certify that "EGAS (PRIVATE) LIMITED" is this day incorporated under the Companies Ordinance, 1984 (XLVII of 1984) and that the company is limited by Shares.

Given under my hand at Islamabad this 6th day of October Two Thousand and Six.

Fee Rs. 2,500/- (Rupees Two Thousand Five Hundred Only)



(Signature)
(SHAUKAT HUSSAIN)
Joint Registrar of Companies
Islamabad



No. ADI 78
Dated: 06

VERIFIED TO BE TRUE COPY

No ADI 29119
Dated 13-2-2018

(Signature)
Deputy Registrar
Company Registration Office Islamabad

35

THIRD SCHEDULE
(See section 130)

FORM A - ANNUAL RETURN OF COMPANY HAVING SHARE CAPITAL

1. Registration No.

2. Name of the Company

3. Form A made upto (Day/Month/Year)

4. Date of AGM (Day/Month/Year)

PART - A

5. Registered Office Address

6. Email Address

7. Office Tel. No.

8. Office Fax No.

9. Nature of Business

10. Authorized Share Capital

Type of Shares	No. of Shares	Amount	Face Value
Ordinary Shares		50,000,000.00	

11. Paid up Share Capital

Type of Shares	No. of Shares	Amount	Face Value
Ordinary Shares		50,000,000.00	



12. Amount of indebtedness on the date upto which form A is made in respect of all Mortgages/Charges

13. Particulars of the holding company

Name

Registration No. % Shares Held

14. Chief Executive

Name NIC

Address

Next Page

No. ADI _____

Dated _____

36

15. Chief Accountant

Name NIC

Address

16. Secretary

Name NIC

Address

17. Legal Advisor

Name

Address

18. Auditors

Name

Address

19. List of Directors on the date of Form-A

Name of Director	Address	Nationality	NIC (Passport No. if Foreigner)
MUHAMMAD RAZA	H. NO. 14-A, F-8 MARKAZ, KAGHAN ROAD, ISLAMABAD	Pakistan.	6110119122517
YASIR RAZA	H. NO. 5, ST. NO. 67, F-7/3, ISLAMABAD	Pakistan.	6110119122491
HASSAN RAZA	H. NO. 14-A, F-8 MARKAZ, KAGHAN ROAD, ISLAMABAD	Pakistan	6110119122155
TAIMUR RAZA	H. NO. 14-A, F-8 MARKAZ, KAGHAN ROAD, ISLAMABAD	Pakistan	6110119122457



PART-B

20. List of members & debenture holders on the date upto which this Form A is made

Folio	Name of Members/Debenture Holders	Address	Nationality	No. of Shares	NIC (Passport No. if Foreigner)
	TAIMUR RAZA	HOUSE NO 14-A, F-8 MARKAZ KAGHAN ROAD ISLAMABAD	Pakistan	1868634	61101-1912245-7
	YASIR RAZA	HOUSE NO 5, STREET NO 67, F-7/3, ISLAMABAD	Pakistan	1868633	61101-1912249-7
	HASSAN RAZA	HOUSE NO 14-A, F-8 MARKAZ KAGHAN ROAD ISLAMABAD	Pakistan	1868633	61101-1912215-5
	MUHAMMAD RAZA	HOUSE NO 14-A, F-8 MARKAZ KAGHAN ROAD ISLAMABAD	Pakistan	100	61101-1912251-7



39

21. Transfer of shares (debentures) since last Form A was made

No.	Name of Transferor (Members)	Name of Transferee	Number of Shares Transferred	Date of Registration of



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 8/2/18
 Deputy Registrar
 Registration Office Islamabad

22, I certify that this return and the accompanying statements state the facts correctly and completely as on the date upto which this Form A is made

Date (DD/MM/YYYY):

Signature:

Designation:

- Chief Executive
- Secretary
- Director

Previous Page Next Page

9c

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41

PARTICULARS OF DIRECTORS AND OFFICERS, INCLUDING THE CHIEF EXECUTIVE, MANAGING AGENT, SECRETARY, CHIEF ACCOUNTANT, AUDITORS AND LEGAL ADVISERS, OR OF ANY CHANGE THEREIN

THE COMPANIES ACT, 2017
[SECTION 197]

FORM 29

Read the instructions on the extract or in bold below structure

1. Incorporation Number: 0058203
 2. Name of Company: EGAS (PVT.) LIMITED
 3. Fee Paid (Rs.): 1000.0
 Name and Branch of Bank: ISLAMABAD, MCB - Islamabad Stock Exchange (1390)
 4. Receipt No.: E-2017-660642
 Date of Receipt: 21/11/2017
 5. Mode of Payment (Indicate): Bank Chalan

6. Particulars*

6.1. New Appointment/Election

Present Name in Full (a)	NIC No. or Passport No. in case of Foreign National (b)	Father / Husband Name (c)	Usual Residential Address (d)	Designation (e)	Nationality** (f)	Business Occupation*** (if any) (g)	Date of Present Appointment or Change (h)	Mode of Appointment / change / any other remarks (i)
HORWATH HUSSAIN CHAUDHURY AND CO			3RD FLOOR PLAZA NO 79, CIVIC CENTER PHASE 4, BAHRIA TOWN ISLAMABAD	Auditor	Pakistan	CA	31/10/2017	Re-Appointment

6.2. Ceasing of Officer/Retirement/Resignation

Present Name in Full (a)	NIC No. or Passport No. in case of Foreign National (b)	Father / Husband Name (c)	Usual Residential Address (d)	Designation (e)	Nationality** (f)	Business Occupation*** (if any) (g)	Date of Present Appointment or Change (h)	Mode of Appointment / change / any other remarks (i)

6.3. Any other change in particulars relating to columns (a) to (g) above

Present Name in Full (a)	NIC No. or Passport No. in case of Foreign National (b)	Father / Husband Name (c)	Usual Residential Address (d)	Designation (e)	Nationality** (f)	Business Occupation*** (if any) (g)	Date of Present Appointment or Change (h)	Mode of Appointment / change / any other remarks (i)



Name of Signatory: TAIMUR RAZA
 Designation: Chief Executive
 Signature of Chief Executive/Secretary: [Blank]
 Date (DD/MM/YYYY): 21/11/2017

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 8/2/18
 Registrar
 Securities and Exchange Commission of Pakistan
 Islamabad

No ADI 29047

Dated 13-2-2018

Board Resolution

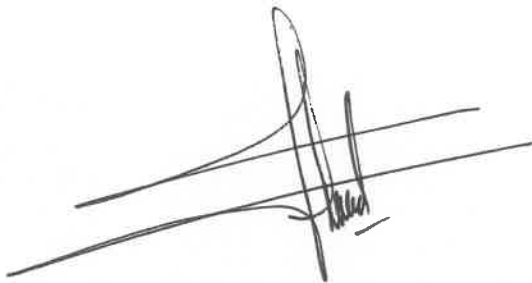
Board of Directors Meeting Held at 8 College Road F-7 Islamabad on 17th December 2019
Corporate Resolution to represent the company in Oil & Gas Regulatory Authority

Resolved unanimously that the company hereby authorizes both directors named below to represent the company in Oil & Gas Regulatory Authority for License application and fulfillment of other regulatory approval requirements;

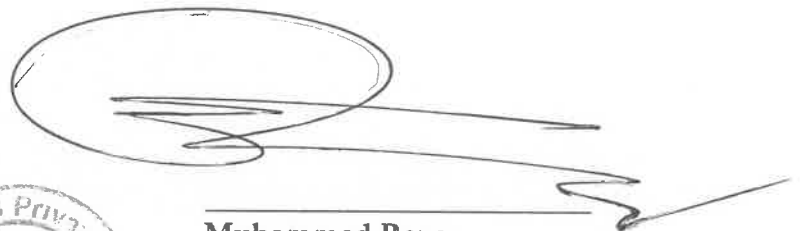
1. Yasir Raza CEO

2. Dr Taimur Raza Director

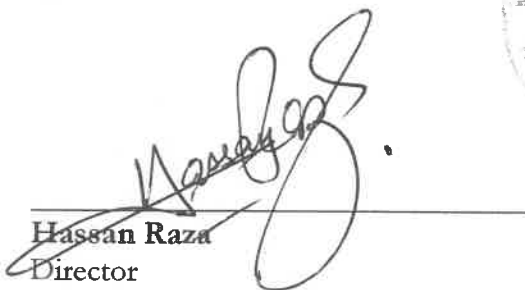
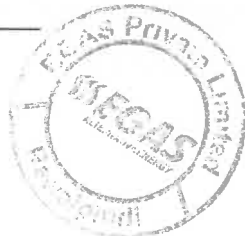
Furthermore, both Directors are authorized to appear in public hearing and represent the company at all occasions as and when required for the License application and fulfillment of other regulatory requirements.



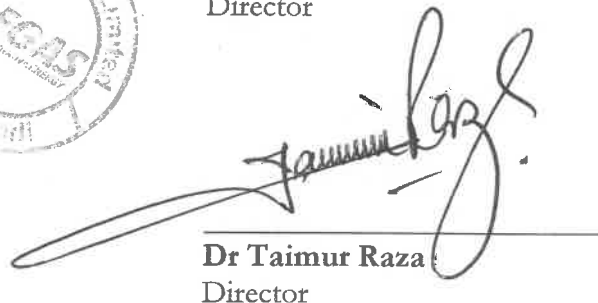
Yasir Raza
CEO



Muhammad Raza
Director



Hassan Raza
Director



Dr Taimur Raza
Director

b) Details of resources and expertise available to handle emergency situation arising out of natural calamities, accidental or criminal acts or omissions, specifying which resources are available and which are to be procured w.r.t. Rule 4(i) of the Licensing Rules.

Rule 4 sub rule 3(h)

Details of the technical and financial expertise and resources available for carrying on the relevant regulated activities

The following personnel and human resources are available with us which are being utilized for O&M activities at Kabir Gas field

A) List of Personnel

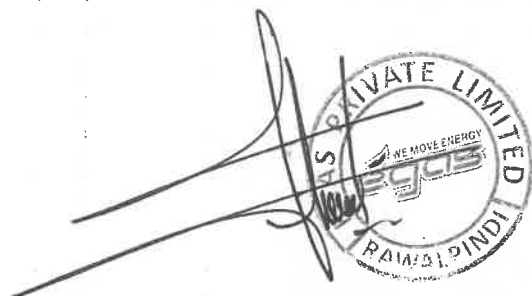
Personnel located at Kabir Field

Sr	Name	Designation	Qualification	Location
1	Malik Hamid	Chief Engineer	B. Eng	Kabir X-1 Field
2	Samuel Bhatti	Dy. Chief Engineer	B. Eng	Kabir X-1 Field
3	Suleman Safdar Maseeh	Assistant Engineer	DAE	Kabir X-1 Field
4	Shakeel Maseeh	Assistant Tech. Officer	DAE	Kabir X-1 Field
5	Naeem Rauf	Welder	DAE	Kabir X-1 Field
6	Ghulam Ali	Fitter	Matric	Kabir X-1 Field
7	Hamayun Rathore	Site Supervisor	Graduate	Kabir X-1 Field
8	Abdul Rauf	Driver	Matric	Kabir X-1 Field
9	Muhammad Ilyas	Driver	Matric	Kabir X-1 Field
10	Muhammad Shareef	Driver	Matric	Kabir X-1 Field
11	Muhammad Anwar	Driver	Matric	Kabir X-1 Field
11	Tehseen	Conductor	Middle	Kabir X-1 Field
12	Rashid	Conductor	Middle	Kabir X-1 Field
13	Mubeen	Conductor	Middle	Kabir X-1 Field
14	Ayub Khan	Conductor	Middle	Kabir X-1 Field

Personnel at Head Office

Sr	Name	Designation	Qualification	Location
1	Zubair Jahangir	HR Manager	MBA-HR	Head Office
2	Ateeq Ur Rahman	Maintenance Engineer	B. Eng	Head Office
3	Hamza Ahmed	Asst. Maintenance Engineer	Graduate	Head Office
4	Muhammad Ahsan	Procurement officer	Intermediate	Head Office

Personnel at Rafhan Maize (Customer Premises)



Sr	Name	Designation	Qualification	Location
1	Faraz Hameed	Operator	DAE	Kabir X-1 Field
2	Mudassir Khalid	Genset Mechanic	DAE	Kabir X-1 Field
3	Sabir Hussain	Boiler Operator	DAE	Kabir X-1 Field
4	Ali Abbas	Electrician	DAE	Kabir X-1 Field

B. List of Equipment
1) Gas Generator:

Make: Doosan-Meccalte
 Model: AEI-450GG Capacity: 450 KVA

Make: Guascor
 Model: 450GG Capacity: 450 KVA

2) Natural Gas Dehydration

Make: Dehydration Inc. Canada

3) CNG Compressor:

Make: FORNOVOGAS SRL
 Model: 4DA-300-132 Capacity: 600m³/hr

4) Prime Mover

Hino FM2P 320 HP 4 No.'s

5) Trailer mounted Gas cascades

Total 6 Prime Movers and 6 Trailers

Details of Each Trailer:

6 cascades on each Trailer

Total Cylinders in Each Trailer 360

Total Capacity of each Trailer 28800 WL

→ 6) CNG Cylinders (OGRA Approved)

Make	Type	Capacity (WL)	Quantity
Kioshi-Argentina	1	80	130
EKC-UAE	1	80	1130
IGVI-Armenia	1	80	180
			1440



7) Maintenance Tools & Materials 1 lot

8) Odorizing Assembly

By-pass type odorizing assembly / odorizer, suitable for 1 bar inlet pressure. To be used with appropriate orifice flange, according to the current edition of the ASME Pressure Vessel Code Section VIII.

Specifications:

Material of construction	Carbon Steel
Gas flow rate	0.5 MMSCFD
Pressure rating	1-5 Bar
Operating temperature range	20° F ~140° F

9) DIGITAL ELECTRONIC PRESSURE GAUGE

Digital electric pressure gauge is used to measure gas pressure. 16.2:

Specifications:

Pressure range	1-250 Bar
Measuring unit	Bar
Accuracy	+/- 0.1% of reading
Resolution (Min. Div.)	Div. 1
Total worst error @25 °C	+/- 0.095% of full scale (max.)
Display update rate	0.33 sec max.
Time to stable reading	10-20 sec
Connection size	1/4"

10) Pressure Guages (Liquid filled)

Specifications

Pressure Range	1-10 Bar and 1-250 Bar
Dial Size	2"
Connection	Standard with 1/2 NPT
Back	Stainless steel
Window	Laminated safety glass
Pointer	Type 304 SS
Mounting	Direct
Dial	Aluminium

11) Safety Relief Valve



Safety relief valve in accordance with current ASME Pressure Vessel Code, Section VIII for gas installation as a safety device for relieving excess pressure in the line.

12) Hygrometer (Moisture Analyser)

Suitable for NEC Class 1, Div. 2, Gr. B, C, D

A) INTELLIGENT MOISTURE / DEW POINT TRANSMITTER

MODEL: XDT-NEMA

- XDT in NEMA 4X Enclosure
- Approved for Hazardous area Class 1, Div. 2 Group A, B, C, D.
- Custom Backlit LCD, Easy to use software interface, push button for field programming / operation / trouble shooting / field calibration
- Analog output 0/4-20 mA
- 2 alarm relays (hermetically sealed suitable for Div.2 area)
- Power requirement : 110-220 VAC, 50/60 Hz, auto ranging P/N # XDT.04.A.2000

B) XENTAUR HTF™ ALUMINUM OXIDE SENSOR (Al₂O₃)

MODEL XTR-100

- Span Meas. range: - 100°C to +20°C (-148 °F to +68 °F)
- High Capacitance quasi-linear response
- Long Term stability
- Low temperature coefficient P/N # SE0.11.A.0000 Unit price # \$ 1,135.00

C) 500 PSI Sensor fitting for item (B) above P/N # SE0.50.A.0000

D) Sample system with SS316 wetted parts, Swagelok tubing / fittings, Swagelok inlet isolation valve, Genie coalescing filter with drain, GO pressure regulator, Sample cell, Pressure Gauge, Dwyer Rota meter with glass tube, complete sample system with analyzer on SS back plate

Configuration # ESS-S-SV-CFD-R-X-PG-X-FM-TN-X

E) Manual calibration valve


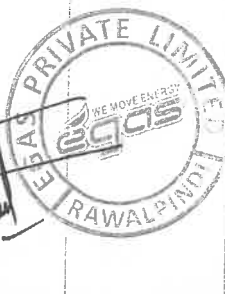
F) Overall Enclosure ATEX Rated (SS Box)

13. Transport

1 full time vehicle is posted at Kabir X-1 field to facilitate mobilization of personnel, equipment and materials for O&M.

14. Communication

Mobile phone is available with the vehicles and at Kabir X-1 field for round the clock communication.

- c) Details of resources and expertise available to handle emergency situation arising out of natural calamities, accidental or criminal acts or omissions, specifying which resources are available and which are to be procured w.r.t. Rule 4(i) of the Licensing Rules.**

Rule 4 sub rule 3 (i)

Details of resource and expertise to handle emergency situation is as under;

A technical management team comprising of the following staff is available at the field. All staff has been trained in Health and Safety as per rules and company policy. The Welders, Fitters and Mechanics & Technicians are available to attend unforeseen operational emergencies.

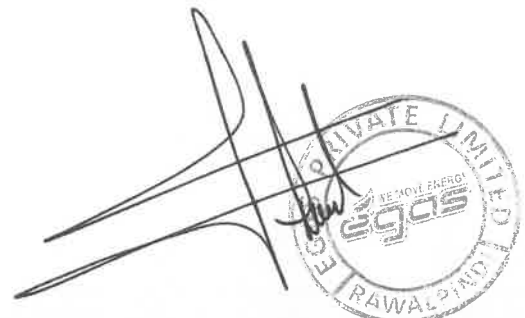
List of Equipment:

1. Fire Extinguishers Trolley	2
2. Fire Extinguishers Hand Held	10
3. Sand Buckets	15
4. Emergency Shut-off valves	2
5. Electrical Shut-off switches	1
6. First Aid Kits	2
7. Vehicles	2

List of Personnel:

1. Field Engineer	1
2. Sub-Engineers	2
3. Welders	2
4. Technicians	4
5. Helpers	5
6. Security Staff	3

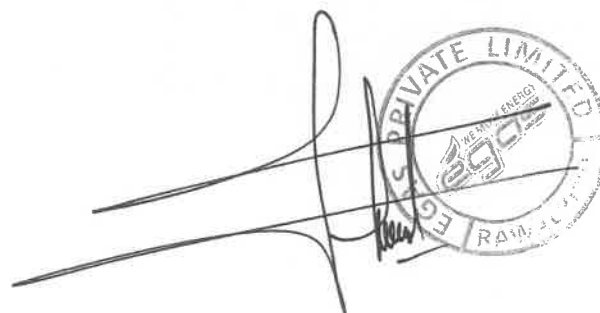
The company has a policy to strictly adhere the Performance standards laid by the authority (see attached list).



Handwritten signature and circular stamp of EGAS Pvt. Limited, Rawalpindi. The stamp contains the text 'EGAS PRIVATE LIMITED', 'WE MOVE ENERGY', and 'RAWALPINDI'.

Rule 4 sub rule 3 (m) Details of the following market data

(i) Volume of Natural Gas to be distributed	0.5 – 1.5 MMSCFD
(ii) Number & consumption of customer	02 and 1.4 MMSCFD
(iii) Total Annual Peak Daily Gas Requirement	1.5 MMSCFD
(iv) Total Past & Expected Curtailments	None

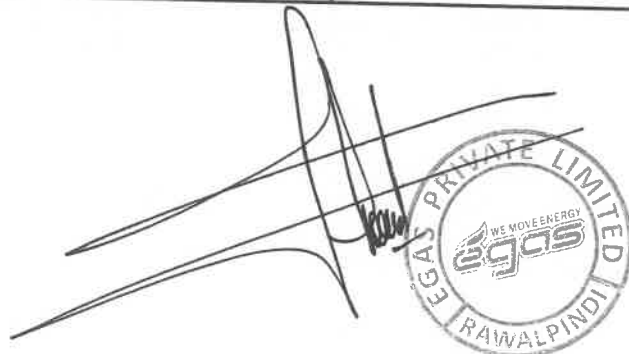


A handwritten signature in black ink is written over a circular stamp. The stamp contains the text 'EGAS PRIVATE LIMITED' around the perimeter and 'WE MOVE ENERGY' in the center, with the 'egas' logo below it.

Gas Composition

Gambat South Concession ; Well Kabir X-1
 District Sanghar
 Operator: Pakistan Petroleum Ltd

Component	Mole %
Hydrogen Sulphide	0
Carbon dioxide	2.87 → 3
Nitrogen	2.93 → 7
Methane	74.03
Ethane	11.81
Propane	5.73
i-Butane	0.63
n-Butane	1.18
i- Pentane	0.2
N- Pentane	0.21
Hexanes	0.12
Heptanes plus	0.29
GHV (Btu/scf)	1200



19

Company	Field	Discovery year	Original Recoverable	Cumulative Production	Balance Recoverable	BTU/SCF
OPPL	ZAMZAMA	1998	1775.089	1631.540	143.549	805
	TURKWAL	1997	4.040	3.700	0.340	1258
	Sub Total (POL)		991.030	672.910	318.120	
PPL	ADHI (Tobra & Khewra)	1978	570.960	316.090	254.870	1200
	ADHI (Sakessar)		23.600	14.380	9.220	1220
	ADHI SOUTH	2018	48.800	0.650	48.150	1220
	CHACHAR	1995	27.700	23.120	4.580	785
	DHOK SULTAN	2015	1.270	0.000	1.270	1300
	KANDHKOT	1959	1982.020	1406.340	575.680	820
	MAZARANI	1959	48.710	48.480	0.230	1008
	SUI-SML	1952	11318.000	10458.010	859.990	955
	SUI-SUL	1952	846.000	653.900	192.100	996
	SUI-Pab		167.000	131.270	35.730	911
	SUI-HRL		78.000	28.880	49.120	375
	ADAM	2007	27.900	22.990	4.910	879
	ADAM WEST	2014	37.060	20.370	16.690	986
	KINZA	2014	3.700	0.440	3.260	890
	FAZL	2015	13.700	0.000	13.700	1010
	SHAHDADPUR (NASR-WAFIQ-SHARF)	2013/2014	358.000	53.870	304.130	650
	KABIR	2015	16.200	0.760	15.440	1190
	ZAFIR	2017	97.500	0.000	97.500	760
	BADEEL	2018	30.030	0.000	30.030	777
	HADAF	2018	49.490	0.000	49.490	1102
SHAHDADPUR WEST (SHAHDAD)	2013	40.830	13.820	27.010	1040	
Sub Total (PPL)			15786.470	13193.370	2593.100	
POGC	POGC Rehman	2010	141.490	26.430	115.060	833
	RIZQ	2015	136.640	12.950	123.690	927
	Sub Total (POGC)		278.130	39.380	238.750	
Dewan Petroleum	RODHO (Lower Goru)	2005	274.857	27.979	246.878	1000
	RODHO (Chitan)	2008	520.546	54.736	465.810	875
	Sub Total (Dewan Petroleum)		795.403	82.715	712.688	
Spud energy	SARA	1994	27.530	26.730	0.800	797
	SURI	1997	32.080	29.200	2.880	815
	Sub Total (Spud Energy)		59.610	55.930	3.680	
Others	SAVI RAGHA	1994	30.000	0.000	30.000	1159
Grand Total			61195.928	39750.295	21445.633	

Note: - * The reserves position is based on the information furnished by the producers in the light of reservoir studies as on 30th June 2019

LMK Resources makes every reasonable effort to ensure the accuracy of the information contained in the service; However, the subscriber must take sole responsibility for the use to which it puts the data Making additional copies without prior approval is prohibited.



[Handwritten Signature]





EGAS Pvt. Limited

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E-mail: sales@egas.com.pk
www.egas.com.pk

CERTIFICATION TO ADHERE WITH SAFETY AND SERVICE OBLIGATIONS

This is to certify that we shall abide by the distribution performance standards & service obligations laid out by Oil and Gas Regulatory authority at all times (list attached).

Yasir Raza
CEO





HSE SYSTEMS/PROCEDURES

REV	DATE	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION
01	04-04-2019	Malik Hamid Ali Khan	Taimoor Raza	Yasir Raza	

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EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
<u>ORIGINATOR NO.</u>	<u>EGAS PROJECT</u> KABIR X-1	REV. 01	DATE : 04-04-2019

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64

TABLE OF CONTENTS

1. INTRODUCTION 3

2. SCOPE 3

3. REFERENCE LAWS & PROVISIONS 3

4. HEALTH, SAFETY & ENVIRONMENT POLICY 3

5. HSE SYSTEMS/PROCEDURES 4

5.1 ELECTRICAL SYSTEMS SAFETY 4

5.2 TRAINING & AWARENESS 5

5.2.1 Training Need Analysis (TNA) 5

5.2.2 HSE Induction: 5

5.2.3 TBTs & Internal Training: 5

5.2.4 First Aid: 5

5.2.5 Fire Fighting: 5

5.2.6 Defensive Driving: 6

5.2.7 Training Effectiveness: 6

5.3 GAS TRANSPORT VEHICLES 6

5.4 HANDLING AND TRANSPORT OF COMPRESSED NATURAL GAS (CNG) 7

5.4.1 Gas Filling: 7

5.4.2 Gas Leaks 7

5.4.3 Damage to Cylinders 7

5.4.4 Work Practices and Storage 7

5.4.5 Transport of Gas 7

5.5 HAZARDOUS SUBSTANCES: 7

5.6 SAFETY EXPECTATIONS: 8

5.6.1 HSE Disciplinary Process: 8

5.7 PERSONAL PROTECTIVE EQUIPMENT (PPE) 9

5.8 ACCIDENT/INCIDENT SYSTEMS 9

5.8.1 Incident/Accident Investigation Procedure 9

5.9 EMPLOYEE PARTICIPATION 9

5.9.1 Participation Processes 10

6. MONITORING AND REVIEWS 10

7. EMERGENCY READINESS 11

7.1 Emergency Planning 11

7.2 Emergency Procedures 11

7.3 Communicating Emergency Information 12

EGAS DOC. NO.		EGAS-HSE-001		PAGE NO.	
<u>ORIGINATOR NO.</u>		<u>EGAS PROJECT</u> KABIR X-1		REV. 01	DATE : 04-04-2019

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63

7.4 Emergency drills 12

8. HEALTH AND SAFETY RULES FOR VISITORS..... 14

9. SELECTION OF CONTRACTORS 14

10. ENVIRONMENTAL MONITORING 14

LISTS OF ANNEXURES 15

Annexure – 1

Annexure - 2..... ..

Annexure -3..... ..

Annexure - 4..... ..

Annexure – 5..... ..

Annexure - 6..... ..

Annexure – 7..... ..

Annexure - 8..... ..

Annexure – 9..... ..

Annexure – 10..... ..

Annexure - 11..... ..

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
<u>ORIGINATOR NO.</u>	<u>EGAS PROJECT</u> KABIR X-1	REV. 01	DATE : 04-04-2019

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1. INTRODUCTION

All information, instructions, specifications, standards and statutory requirements contained herein have been provided/stipulated by the company to the best of its knowledge. Compliance with stated HSE procedures and guidelines shall not relieve employees and other who may be concerned in any way with the operation or work of the company, its property or premises, of the obligation to follow sound HSE practices.

2. SCOPE

The scope of this HSE manual is to provide guidelines to the company's personnel and its nominated contractors during the commissioning and operational phases. This document covers all the necessary HSE procedures to perform work in specific environment related to our company's business activities.

3. REFERENCE LAWS & PROVISIONS

HSE procedures and guidelines covered in this manual are backed by many national and international laws and provisions. The stated procedures are not limited to these laws and wherever there is requirement, best industry HSE practices are utilized. Some of the reference laws not limited to are mentioned below:

- Pakistan Environmental Protection Act, 1997
- Mineral and Industrial Gases Safety Rules, 2010
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- The Mines Act, 1923
- The Explosive Act (1884), the Explosive Substance Act (1904), and the Explosive Rules, 1940.

4. HEALTH, SAFETY & ENVIRONMENT POLICY

Egas Pvt., Ltd. is committed to maintaining a safe and healthy working environment for the safety and health of our employees and other persons in the workplace.

Health and safety is everyone's business, and everyone is expected to share in our commitment to avoid all accidents and incidents which may cause personal injury, property damage or loss of any kind.

Every employee is expected to act safely at all times to ensure their own welfare and that of their fellow employees and others in the workplace.

We will ensure the safety of employees by:

- Providing and maintaining a safe working environment
- Providing facilities for health and safety
- Ensuring all plant and equipment is safe
- Ensuring all employees (including any mobile workers), and other people at (or in the vicinity) of the place of work are not exposed to unmanaged or uncontrolled hazards
- Developing and implementing emergency and evacuation procedures

To achieve this we will:

- Systematically identify and control all hazards in our workplace. Where there are significant hazards we will take all practicable steps to eliminate, isolate and or minimize these hazards to prevent any injury or damage.

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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HSE SYSTEMS/PROCEDURES

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01	04-04-2019	Malik Hamid Ali Khan	Taimoor Raza	Yasir Raza	

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EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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TABLE OF CONTENTS

1. INTRODUCTION 3

2. SCOPE 3

3. REFERENCE LAWS & PROVISIONS 3

4. HEALTH, SAFETY & ENVIRONMENT POLICY 3

5. HSE SYSTEMS/PROCEDURES 4

5.1 ELECTRICAL SYSTEMS SAFETY 4

5.2 TRAINING & AWARENESS 5

5.2.1 Training Need Analysis (TNA) 5

5.2.2 HSE Induction: 5

5.2.3 TBTs & Internal Training: 5

5.2.4 First Aid: 5

5.2.5 Fire Fighting: 5

5.2.6 Defensive Driving: 6

5.2.7 Training Effectiveness: 6

5.3 GAS TRANSPORT VEHICLES 6

5.4 HANDLING AND TRANSPORT OF COMPRESSED NATURAL GAS (CNG) 7

5.4.1 Gas Filling: 7

5.4.2 Gas Leaks 7

5.4.3 Damage to Cylinders 7

5.4.4 Work Practices and Storage 7

5.4.5 Transport of Gas 7

5.5 HAZARDOUS SUBSTANCES: 7

5.6 SAFETY EXPECTATIONS: 8

5.6.1 HSE Disciplinary Process: 8

5.7 PERSONAL PROTECTIVE EQUIPMENT (PPE) 9

5.8 ACCIDENT/INCIDENT SYSTEMS 9

5.8.1 Incident/Accident Investigation Procedure 9

5.9 EMPLOYEE PARTICIPATION 9

5.9.1 Participation Processes 10

6. MONITORING AND REVIEWS 10

7. EMERGENCY READINESS 11

7.1 Emergency Planning 11

7.2 Emergency Procedures 11

7.3 Communicating Emergency Information 12

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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7.4 Emergency drills 12

8. HEALTH AND SAFETY RULES FOR VISITORS 14

9. SELECTION OF CONTRACTORS 14

10. ENVIRONMENTAL MONITORING 14

LISTS OF ANNEXURES 14

Annexure - 1 15

Annexure - 2.....

Annexure -3.....

Annexure -4.....

Annexure -5.....

Annexure -6.....

Annexure -7.....

Annexure -8.....

Annexure -9.....

Annexure -10.....

Annexure -11.....

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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- Inform all employees of these hazards and the hazard controls.
- Ensure all employees are properly trained and supervised.
- Inform all employees of emergency and evacuation procedures.
- Record all incidents and accidents in our workplace, and take all practicable steps to prevent these events from happening.
- Carry out planned self-inspections to monitor health and safety issues.

Signed: _____
Executive Director

Dated: _____

5. HSE SYSTEMS/PROCEDURES

Company has a devised HSE systems/procedures in place to take guidelines on the operations and activities. The procedures covers all the activities and operations being or likely to be performed on field. HSE procedures involve following:

5.1 ELECTRICAL SYSTEMS SAFETY

This part gives guidance on the electrical safety because camp and site needs electric supply for the equipment and whole facility. Electricity generation and distribution needs to be handled with utmost care. Following are the minimum standards which will apply to all electrical systems operated during the execution of the contract.

- All the generators must be placed on a concrete pad with proper bunds for spillage containment.
- A standby generator must be available for meeting minimum camp requirements.
- All generators should be properly earthed as per internationally approved standards.
- A qualified person should operate and maintain generator systems.
- Generator area must be segregated with defined boundaries and must be restricted for all the personals except operators.
- All of the electrical wiring which is subjected to open environment, exposed to the physical wear or high temperature must be in metal or PVC conduits.
- Hanging of energized wires shall be avoided.
- No wire should pass over storage vessel.
- Splicing must not be performed in electrical wiring, connections must be made through a junction box.
- All of the electrical wires must be properly distributed and buried with cable trays of international standards.
- All of the cables must be coated to avoid any current leakage.
- No electrical wires shall be spread on the ground which may become a tripping hazard.
- All the distribution boxes of electricity should be weather resistant and possess proper sealing arrangements with a robust locking device.
- All the electrical systems and wiring must be connected to earth at source.
- A separate earth wire must be used to earth all metallic enclosures.
- An identified and assessable means of isolation must be provided for each electrical system.
- All generators, distribution boxes, main switches, industrial sockets, wires and distribution network must be flame proof standards.
- Work on existing electrical panels/systems is only carried out under a valid "Permit to Work" by competent staff.
- All temporary electrical circuits are provided with earth leakage circuit breaker.

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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- All the electrical installations must be completed only under the direction of electrical representative of the field.
- Any sort of maintenance work on dead or live electrical systems must be clearly planned and documented.
- Permanent connection must be employed while using electrical portable equipment.
- A competent electrician must inspect all the electrical systems and wiring inside field according to a tailored checklist (Annexure – 1) on weekly basis and maintain record.
- All the handheld tools and portable electrical equipment present on the field must be inspected according to a tailored checklist (Annexure – 2) on monthly basis and tagged i.e. yellow, white and black after every four months.

5.2 TRAINING & AWARENESS

Company is responsible for maintaining and enhancing the HSE awareness of all personal including arranging toolbox talks, short trainings, internal and external trainings and specific to task trainings. Provision of trainings must be accompanied by a training need analysis (TNA) which helps to plan trainings of the employees.

Company is responsible to ensure that all its personnel who require trainings shall have access to, and receive adequate training and refresher courses.

5.2.1 Training Need Analysis (TNA)

Company must conduct a critical analysis of the employees on training needs. Trainings must be provided according the TNA (Annexure – 3).

5.2.2 HSE Induction:

Company must ensure that all new arrivals including visitors to the work site receives comprehensive HSE induction (Annexure - 4) briefing immediately upon arrival at the work site and before commencing work.

5.2.3 TBTs & Internal Training:

A competent person is responsible to conduct Toolbox Talks (TBTs) before start of every shift. Internal trainings (Annexure – 5) must be conducted in order to equip employees with the updated knowledge and skills.

5.2.4 First Aid:

Company must ensure one person for 30 people at site including camp and catering crew have received training on first aid/CPR. First aid training must be refreshed after every 3 months and a competent first aider must be maintained at site all the time.

5.2.5 Fire Fighting:

Company must provide of latest and updated firefighting training to the crew and maintain a team of competent persons in this regard. Training must include updated knowledge on firefighting equipment, provision and techniques. This training also involves actual demonstration, drills and exercises to equip employees with the knowledge to act and move safely in case of fire emergency. Furthermore, training shall be given on the devised Emergency Response Plan (ERP).

EGAS DOC. NO.		EGAS-HSE-001		PAGE NO.	
<u>ORIGINATOR NO.</u>		<u>EGAS PROJECT</u> KABIR X-1		REV. 01	DATE : 04-04-2019

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5.2.6 Defensive Driving:

All drivers and heavy equipment operators must undergo a formal training on defensive driving by a competent person on field and ensure record maintenance.

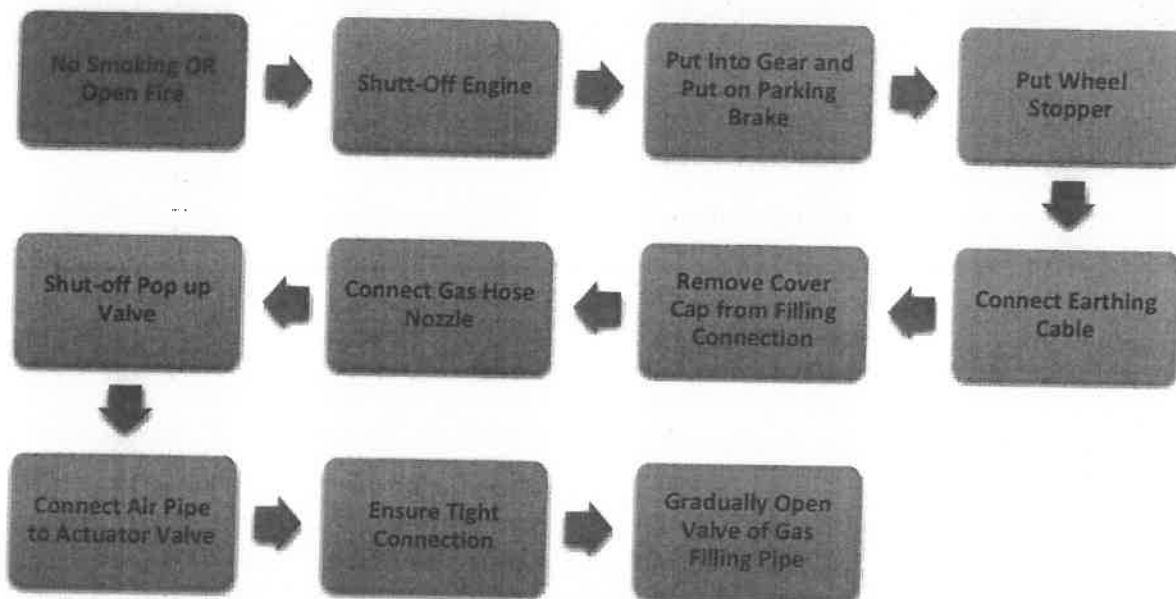
5.2.7 Training Effectiveness:

Training effectiveness must be evaluated on the basis of tailored performa which is filled (Annexure – 6) by trainees and then submitted to the HSE management.

5.3 GAS TRANSPORT VEHICLES

Gas transport vehicles must be monitored and supervised round the clock. Following are the points to be considered in gas transport vehicles safety:

- The bowser must be parked where ground is leveled.
- Below SOP must be followed at all times to ensure complete compliance of HSE procedures.
- Attendant must be present at all times to monitor the filling and draining activity.



- In case of any emergency i.e. leakage of gas from the bowser, shall be reported immediately and all the actions must be taken according to the specifically devised Emergency Response Procedure (ERP) (Annexure – 7) for bowzers.
- All the vehicles must move with extreme precautions around the site and strictly obey the speed limit (15km/h) rule.
- Daily inspection checklist (Annexure – 8) is tailored and inspection is performed on regular daily basis which is supervised and crossed checked by the responsible person.
- 2 fire extinguishers must be provided on each vehicle, one on each side and should be assessable from outside the cab.

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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23

5.4 HANDLING AND TRANSPORT OF COMPRESSED NATURAL GAS (CNG)

The processed gas handled by taking extreme precautions with latest techniques, equipment, machinery and vehicles for transport. Our final product is class 2.1 flammable gas 2 according to MSDS which is highly dangerous and requires extreme care while filling, draining and transport operation.

Identification and minimization of hazards and risks associated with each step in handling, filling, draining and transport operations. Following are some of the procedures we have in place:

5.4.1 Gas Filling:

- Gas is filled with extreme precautions and according to the above devised SOP which is supervised strictly and recorded.
- Abrupt raise in pressure is avoided and controlled by increase of 2bar pressure after every 50minutes.

5.4.2 Gas Leaks

- PSVs are installed on the compressors and cyclone separators to contain the situation.
- Availability of extra bowser at filling point for decanting in case of unforeseen gas leak.
- Planned preventive maintenance and regular inspection of the valves of cylinders inside bowzers.
- Gas leaks from one bowser can be contained through a devised ERP (Annexure – 7).

5.4.3 Damage to Cylinders

- Cylinders are placed vertically inside the container frame fix by the principal of neck mounting to prevent movement or any subsequent damage.
- Gas storing cylinders are installed in imported and internationally approved module designs which ensures no damage to the inside cylinders and are inspected.
- Manual handling of the cylinders must never practice.

5.4.4 Work Practices and Storage

- There should be no work practices or hot work which involve any sort of naked flames around the bowser.
- A safe distance of 10m is defined and the area is supervised.
- Combustibles must be kept approx. 35ft away from the bowser filling area.

5.4.5 Transport of Gas

- Gas is transported through specialized type 4 composite modules (gas transport vehicles).
- The modules are CSC certified and tagged with.
- Vehicles must be tracked and monitored to ensure safe journey and reporting in any possible problem.

5.5 HAZARDOUS SUBSTANCES:

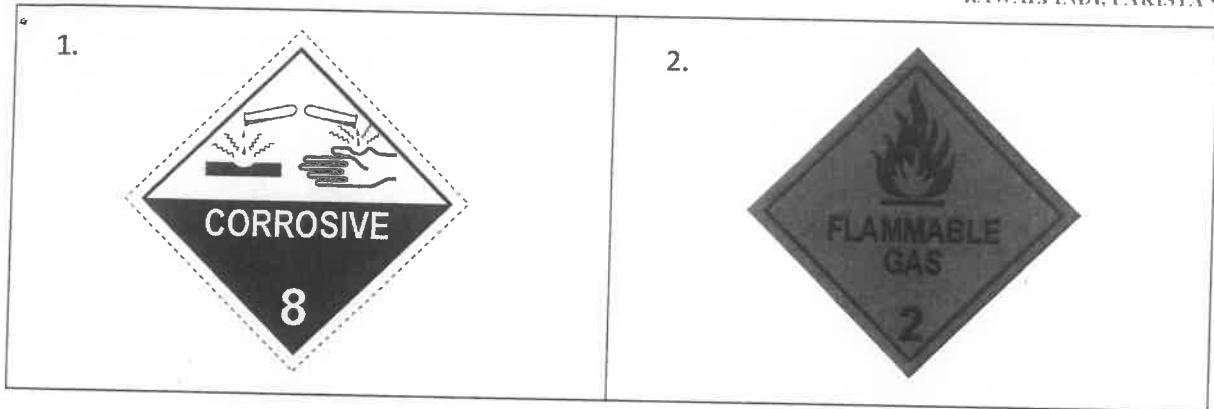
Prior to bringing any fuel or other hazardous materials to site, contractors and subcontractors shall review, perform and document completion of actions required in the HSE procedures manual.

Wherever hazardous substances such as diesel fuel, gas condensate and compressor/generator or engine oils consumed or stored on site, internationally recognized hazard warning signs and dedicated dry chemical powders fire extinguishers must be provided.

Following can be used as hazard warning signs for gas condensate (1) and gas (2):

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
<u>ORIGINATOR NO.</u>	<u>EGAS PROJECT</u> KABIR X-1	REV. 01	DATE : 04-04-2019

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- All storage area for gas condensate, compressor/generator and engine oil should be segregated and clearly identified.
- All storage must have a covering (e.g. shelter or roof) to provide protection from the environment and adverse weather.
- Combustible liquids such as gas condensate must be stored in drums or tanks.
- NO NAKED FLAMES and NO SMOKING signs must be posted within 15m of distance, on storage areas and visible from all sides.
- Gas condensate must be collected approx. 50ft away from the cyclone separator and filtration units.

5.6 SAFETY EXPECTATIONS:

We have very clear health and safety expectations for all employees, and clear processes to follow when these expectations are breached.

Our health and safety expectations are that employees:

- Ensure that their actions or inactions do not cause harm to themselves or others.
- Follow instructions and report if someone is not complying with the HSE rules.
- Wear all PPE provided when required.
- Report hazards.
- Report all accidents, incidents and near misses.

Here is the disciplinary process if an employee breaches these expectations:

5.6.1 HSE Disciplinary Process:

Following disciplinary actions can be taken against the person who is observed or reported for non-compliance and breaching HSE rules and regulations (Annexure – 9).

	Remarks
Verbal Warning	
1 st Warning	
2 nd Warning	
Final Written Warning	
Dismissal/Termination	

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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5.7 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Personnel protective equipment (PPE) is issued to all employees for specific tasks. There are two forms on attached at the end of the document indicating requirement (Annexure – 10) and issuing of PPE (Annexure – 10). One is a register that helps us to track and maintain our PPE. The other is used when we issue PPE. It includes a date of issue and requires employees to state the training they've received enabling them to use the PPE.

- HSE representative will train employees in the correct use and maintenance of PPE.
- PPEs can be replaced in case of damage and there is a duration of time after which an employee can get new PPEs indicated on the form.
- Not wearing correct PPE will result in disciplinary action.

5.8 ACCIDENT/INCIDENT SYSTEMS

All types of incidents/accidents and near misses are reported, recorded and investigated (Annexure – 12) to find out the root cause and address it. All the risks and associated hazards must be controlled and improvements are made to prevent similar incidents/accidents or near misses from happening again.

Responding to injuries:

- Employees must ensure their safety before helping an injured person.
- All employees must report any incident to their supervisor or manager as soon as possible.
- All the employees must be trained for attending an injured and reporting of incident/accident.
- If an employee is off-site, the accident must be reported as soon as possible.

Details from the reporting employee is kept at hand which lead to extensive incident/accident investigation process to highlight immediate, underlying and root causes and prevent it from reoccurrence.

Below is the procedure for incident/accident investigation:

5.8.1 Incident/Accident Investigation Procedure

Investigation of incident/accident (Annexure – 12) is as crucial as reporting because it can determine the causes. This includes investigating all incidents involving our visitors and contractors.

Following procedure is applied:

- All serious harm injuries are investigated and the results are recorded on the form on the following page.
- All other incidents or near-misses are investigated and the results recorded.
- A team of competent person including field incharge, employees' representative, supervisor, HSE representative and any witness, carries out the investigations.
- Field Incharge follows up all incidents and puts in place new procedures or actions as appropriate.
- Any new hazard that is identified, or control measures introduced through the investigation, is recorded in the incident/accident report. This is the responsibility of the person carrying out the investigation.
- Findings from all incident investigations are communicated to all staff by [communication process, e.g. safety team meetings and internal trainings and on a notice board in lesson learnt etc.]

5.9 EMPLOYEE PARTICIPATION

Employees are involved and where applicable, their representatives in developing, agreeing, implementing and maintaining an employee participation system.

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
<u>ORIGINATOR NO.</u>	<u>EGAS PROJECT</u> KABIR X-1	REV. 01	DATE : 04-04-2019

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5.9.1 Participation Processes

Following employee participation processes can be used:

- Regular health and safety discussions or toolbox meetings with management and staff.
- Involve employees in our hazard management processes, which include:
- Identifying hazards regularly, especially when things have changed
- Recording the hazards through daily observation report (DOR).
- Reporting back to staff about the decisions taken on controlling hazards, and the reasons for these decisions
- Providing training on hazard identification and reporting to representatives.
- Consulting with our employees and gain agreement on a process to elect health and safety representatives.

6. MONITORING AND REVIEWS

Monitoring the activities and HSE procedures is very crucial to remain defined aims, objectives and targets. Active and reactive monitoring must be performed in order to prevent occurrence of injuries and work related ill health and to identify possible causes in case of any failure which resulted in incident/accident respectively.

Following points must be kept in mind while monitoring and reviewing current HSE systems performance:

- Monitor known hazards to determine whether the hazards continue to exist and the controls remain effective. We record inspections and update the hazard register.
- Monitor workplace conditions and practices and identify new hazards that may arise.
- Health and safety plans and objectives must be reviewed and updated every year.
- Review all procedures and hazard management controls after each significant and potentially damaging event.
- Review all injury data each year and use this information to identify appropriate goals for the safety plan.
- Review this health and safety manual each year, to ensure the policy has been updated and signed and documentation is updated.
- Review the health and safety responsibilities designated to staff, each year.

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
<u>ORIGINATOR NO.</u>	<u>EGAS PROJECT</u> KABIR X-1	REV. 01	DATE : 04-04-2019

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42

7. EMERGENCY READINESS

Emergency readiness is very crucial in an oil and gas facility. We have identified the types of emergencies that could affect our company, and developed an emergency plan and procedures to deal with them.

7.1 Emergency Planning

Our emergency plan identifies all potential emergency situations and the required responses for each. Here's the checklist used to develop our emergency plan:

Emergency Plan Content	
A floor plan (or site plan) that shows:	
○ the location of exits and assembly areas	<input type="checkbox"/>
○ all the hazardous substances kept on-site and where they are stored	<input type="checkbox"/>
A procedure for each emergency identified	<input type="checkbox"/>
Identified who takes charge in each emergency situation	<input type="checkbox"/>
Processes to communicate an emergency to all employees	<input type="checkbox"/>
The services and official organizations to call for each emergency and their contact details	<input type="checkbox"/>
Specialized training that emergency response employees require to respond to emergencies. This includes refresher training	<input type="checkbox"/>
The training all employees will require	<input type="checkbox"/>
The emergency equipment required, where it is kept, and how often it's checked	<input type="checkbox"/>
The PPE needed and how it's maintained	<input type="checkbox"/>
The emergency equipment or supplies needed	<input type="checkbox"/>
The frequency with which procedures are tested and reviewed	<input type="checkbox"/>

7.2 Emergency Procedures

Emergencies that could affect us

Following emergencies that could affect our workplace and we have an emergency response plan (ERP).

Emergencies that could be caused by poorly controlled hazards:

- Gas leakage (Annexure – 7)
- Fire

Developing emergency procedures

Following checklist is used to develop our emergency procedures.

EGAS's Emergency Procedure Checklist			
Method of warning employees that there is an emergency			<input type="checkbox"/>
Procedures for on-site emergency response from wardens, first-aid personnel and rescue squads			<input type="checkbox"/>
Procedures for providing immediate medical assistance and first-aid			<input type="checkbox"/>
EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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Procedures for shut-down or isolation of hazardous processes, equipment or substances	<input type="checkbox"/>
Procedures for evacuating the site	<input type="checkbox"/>
Procedures for ensuring visitors and disabled persons are evacuated from the building	<input type="checkbox"/>
Procedures for accounting for all employees after an evacuation	<input type="checkbox"/>
Procedures for accounting for visitors and contractors present during an emergency	<input type="checkbox"/>
Procedures for mobile workers, including knowing where they are at all times (such as by using a time check-in system), and how to communicate with them	<input type="checkbox"/>
Procedures for isolated workers, including knowing where they are at all times (such as by using a time check-in system), and how to communicate with them	<input type="checkbox"/>
Procedures for lone workers, including knowing where they are at all times (such as by using a time check-in system), and how to communicate with them	<input type="checkbox"/>
Procedures for reporting emergencies to emergency services	<input type="checkbox"/>
Procedures for protecting important records and assets	<input type="checkbox"/>

7.3 Communicating Emergency Information

Training, emergency drills, meetings, signs and wireless system to communicate emergency information to ensure all staff are aware of our emergency plan and procedures.

7.4 Emergency drills

Emergency drills must be conducted once every six months. We record these using the form attached below and provide debrief at safety committee meeting and training.

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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EGAS's Record of Emergency Drill/Actual Evacuation

Date:

Time of alarm:

Time evacuation completed:

Time all clear:

Area	Results	Action points	Responsibility

Signed:
 [Health and Safety coordinator or other role]

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
<u>ORIGINATOR NO.</u>	<u>EGAS PROJECT</u> KABIR X-1	REV. 01	DATE : 04-04-2019

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8. HEALTH AND SAFETY RULES FOR VISITORS

- Visitors are advised to report to the security guard at the gate who is responsible to provide following information and take signature on the entry register. Information will be:
- Do not go into the work area unaccompanied.
- Please wear personal protective equipment (PPE) when asked to do so.
- If you see anything hazardous, please let us know.
- In case of emergency please follow the evacuation procedure and report to assembly area.

9. SELECTION OF CONTRACTORS

- Contractors are assessed before hiring them to ensure they are competent and safe.
- They must receive a full induction training before starting work on site.
- They are continuously monitored and evaluated their performance to ensure they follow our health and safety practices.

10. ENVIRONMENTAL MONITORING

Environmental safety is our utmost priority and policy. Work environment is monitored to ensure safe limits are not exceeded on things such as noise, airborne contaminants or particles. Weekly inspection is performed in this regard to meet our objectives of environmental safety and to be stay environmental friendly.

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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LISTS OF ANNEXURES

Annexure - 1

KABIR X-1 Nawab Shah Gas Field					
Weekly Site Temporary Electrical Checklist					
Site:		Date :		Shift : <input type="checkbox"/> Day <input type="checkbox"/> Night	
Location :		Electrician Name :			
		Yes	No	N/A	Comments
1. Power Distribution Boxes fixed with ELCB's and Locked? (Electrical Load Circuit Breakers max 100ma)					
2. Are the ELCB's been tested and signed off accordingly ?					
3. The Primary Cables feeding the DB,					
3.1 Free of damages and elevated using proper cable ties ?					
3.2 Cables connected through the ELCB's ?					
3.3 Designed for the expected Load ?					
4. When the Temporary Lighting is Fluorescent,					
4.1 Fluorescent Lighting fixed in all Floor Levels with no obstructions (Formwork/ propping)					
4.2 Fixed with damage free cables and elevated with proper cable ties or Hooks					
4.3 Provides sufficient Illumination (Min 30 Lux)					
4.4 Safe connections used in linking two cables ?					
5. Temporary Lighting is Task Light/ Mercury Lights					
5.1 Fixed to a structure with the Face of the light at a minimum safe distance of 1M from the nearest surface					
5.2 Damage free cords and elevated with proper cable ties					
5.3 Safe connections used in extending Cords					
5.4 No Task lights are been removed from the fixtures or found not defective ?					
5.5 Possibility of water/ concrete splashing on the Task lighting is removed/ proper elevation maintained ?					
5.6 Availability of an Electrician to switch off the Lights upon completion of Task					
6. Emergency Battery Operated Lighting are found operational					
7. Portable Electrical Appliances					
7.1 The Power Cords are free of damages and proper Industrial Sockets are used for power inlets					
7.2 Maintained in terms of Machine guards, Electrical circuits, Dead man switch if applicable					
7.3 Cords are elevated and does not pose a tripping hazard or exposed to water					
Electrical Representative		HSE Representative		Field Incharge	
Name:		Name:		Name:	
Position:		Position:		Position:	
Signature		Signature		Signature	

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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Annexure -3

COMPETENCIES

Sr. No.	Employee name	Position	Business Training		Required Training												Hazard and Risk Management Training		Other				
			As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	Once	Once		
			As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	As required	
1	Ali Nisar	Field Manager	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	Malik Humid Ali Khan	HSE Coordinator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	Humayun Rathore	Asst. Field Manager	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	Muhammad Nabeel	Senior	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	Suleman Safdar	Mechanic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	Danish Ali	Technician	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	Shakaeel	Mechanic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	Zia Abbasi	Technician	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	Zohoor	Technician	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	M. Khan	Technician	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	Naveed Baloch	Technician	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	Sultan	Electrician	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	Sajid	Cook	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	Aslam	Guard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	Mashooq	Guard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	Sheraz	Driver	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	Azhar Ali	Driver	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	M. Akram	Driver	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Dated: 24-03-2019
 Site: KABIR X-1

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01
		DATE : 04-04-2019

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(Handwritten mark/initials)



Annexure - 4

<h2 style="margin: 0;">Preliminary SITE OHS Orientation Form</h2>	
---	--

	1. Awareness about the site (Layout, Working Activity, Office etc.)		
	2. Hazard (Fire, work at height, electricity, cables and control measures)		
	3. Welfare Facilities (Toilet, rest area, smoking area and clinic etc.)		
	4. Report to security (While entry or exit time)		
	5. Emergency Response Procedure (ERP) (Muster point, follow signage, emergency contact numbers and assembly points)		
	6. Traffic management (Follow the traffic plan, rules and signage)		
	7. PPEs (Ensure appropriate PPEs while entry to site)		
Induction Date		Time	Page No.

Induction Location	
Inductor Name	
Designation	

Sr. #	Trained Personnel	Designation	Day 1 Sign	Day 2 Sign	Day 3 Sign	Training Efficient	Efficient Evaluate/Sign

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
<u>ORIGINATOR NO.</u>	<u>EGAS PROJECT</u> KABIR X-1	REV. 01	DATE : 04-04-2019

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Annexure – 5

Language: Urdu

Tool box Talk

Internal Training

LOCATION/ AREA:		Date:	Duration :	
Subject :				
NO.	NAME	POSITION	BADGE No/ ID #	SIGNATURE
1				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

TBT/Training Given By:.....

Designation:.....

Signature:.....

Acknowledgement by the HSE Incharge:

Name:

Signature:.....

Note: Contents need to be attached/Photos

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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Annexure - 6

Training Evaluation Form for Participants in Internal Trainings

Title and location of training: _____

Date: _____

Trainer: _____

Name of the participant: _____ Signature: _____

Instructions: Please indicate your level of agreement with the statements listed below in #1-11.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
1. The objectives of the training were clearly defined.					
2. Participation and interaction were encouraged.					
3. Topics covered were relevant to me.					
4. The content was organized and easy to follow.					
5. The material distributed was helpful.					
6. This training experience will be useful in my work.					
7. The trainer was knowledgeable about the training topics.					
8. The trainer was well prepared.					
9. The training objectives were met.					
10. The time allotted for the training was sufficient.					
11. The meeting room and facilities were adequate and comfortable.					

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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Annexure - 7



ERP in case of Leakage from Bowser

Ensure availability of extra empty bowser at filling point.

Follow SOP to complete filling connection with one bowser.

Safely connect filling point with the 2nd available bowser.

Check valve installed on gas feed line before 2nd bowser remain closed.

Open ball valve to filling point installed in panel of 2nd bowser.

Check for any possible leakage visually or by sound.

In case of any leakage gas compressors are shut down.

Open up the valve installed on flare line to direct gas main feed to flare pit.

Now open up the valve installed on gas feed line before 2nd bowser to direct gas feed from 1st bowser to 2nd one

Prepared by: Malik Hamid Ali Khan
Designation: HSE Coordinator

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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Annexure - 8

Bowser Daily Inspection Checklist



Date _____ Driver _____ Signature _____
 Bowser Number _____ Model Number _____ Type of Engine Oil _____
 Department _____ Serial Number _____ Radiator Coolant _____
 Shift _____ KM Meter Reading _____ Diesel Consumption/Trip _____

SAFETY AND OPERATIONAL CHECKS (Prior to each shift) Have a qualified mechanic correct all problems.

X-Store Container Module	O.K. (Y)	Need Maintenance
	Do not start truck Report to your supervisor immediately.	
Couplings - Free of leakages		
Cabinet - Cleanliness and check the tightness of the locks and hinges		
Pressure gauge - Condition and check for any sign of leakage		
Leak Testing - All fittings in the cabinet, safety valve, adapter temperature sensor		
Flanges Bearing - Check for cracks, tightness of the screws		
Groove Nuts - Check for tightness		
Stickers and Marks - Check for completeness, CSC safety approval?		
Immobilizer - Check screws for tightness, check ball link bearing for damages?		
Tarp - Check for tightness, condition of the rivets.		
Engine Compartment:		
Battery - Water/Electrolyte Level and Charge		
Operator's Compartment:		
Operator's Manual In Container		
Capacity Plate Attached - Information Matches Model, Serial Number, and Attachments		
Functional - Speedometer, RPM meter, Fuel meter, Temperature meter.		
Seat Belt, Buckle and Retractors - Functioning Smoothly		
Air Pressure Meter - Functional		
Controls (Turn Truck On) Unusual noises must be investigated immediately:		
Accelerator Linkage - Functioning Smoothly		
Parking Brake/Hand break - Functioning Smoothly		
Engine Stopper/Emergency Break - Functional		
Service Brake and ABS Break - Functioning Smoothly		
Emergency Provisions - Fire extinguishers, First Aid Kit, Safety Cones		
Steering Operation - Functioning Smoothly		
Drive Control - Forward/Reverse - Functioning Smoothly		
Tilt Control - Forward and Back - Functioning Smoothly		
Cab, If Equipped - Heater, Defroster, Wipers - Functioning		
Attachment Control - Operation		
Horn - Functioning		
Head lights, Indicators - Functioning		
Gear - Functioning smoothly		
Mirrors - Side and Round - Visibility		
Tyres:		
Tyres - Damage Condition		
Nut - Tightness		
Chassis:		
Joints - Condition		
Chassis Structure - Cracks		
Checked by (Competent Operator/Mechanic):	Verified by (Senior Mechanic):	Approved By:
Name:	Name:	Name:
Designation:	Designation:	Designation:
Signature:	Signature:	Signature:

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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Annexure - 9

HSE Disciplinary Procedure	
-----------------------------------	--

HSE Violation Report

Report No.		ID No.	
Name		Position	
Company		Date	
Location		Time	

Reason of Notice:

The following operatives (s) were caught: _____

The following disciplinary action is:

	Remarks
Verbal Warning	
1 st Warning	
2 nd Warning	
Final Written Warning	
Dismissal/Termination	

Issued By HSE Representative	Confirmed By Site Incharge	Approved By General Manager
Name: _____	Name: _____	Name: _____
Sign: _____	Sign: _____	Sign: _____

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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Annexure - 10

PERSONAL PROTECTIVE EQUIPMENT (PPE) ISSUE FORM

Dated	
Site	KABIR X-1, Nawab Shah

Sr. #	Name of the Employee	Designation	Badge ID #	Type of PPE Issued							
				Safety Shoe #	Coverall Size	Ear Muffs	Safety Goggles	Hard Hat	Chemical Mask	Safety Gloves	Issued
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											

Issued By:		Approved By:		Verified By:	
Name:		Name:		Name:	
Designation:		Designation:		Designation:	
Signature:		Signature:		Signature:	

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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Annexure - 11



INCIDENT / ACCIDENT INVESTIGATION REPORT

Site KABIR X-1 Ref. No: _____

1. Date: _____ Time: _____

2. Type of Incident : (Tick as applicable)
Personal Injury Property Damage Near Miss

3. Location: _____

4. Description of Incident (Attach sheet if required):

5. Potential Severity: (In Case of Near Miss):
Major gas release which may result to fire and explosion.

6. Property Damage Report :

6.1 Plant/Equipment or Material Involved: _____

6.2 Estimate cost: _____

7. Personal Injury Report:

7.1 Details Of the Injured Person

7.1.1 Name: _____ 7.1.5 Age: _____

7.1.2 Designation: _____

7.1.3 Company name: Egas Pvt., Ltd. 7.1.6 Nationality _____

7.1.4 Name of the immediate Supervisor _____

7.2 What was the injured person doing at the time of accident?

7.3 What was the immediate cause of the accident:

7.4 How the injury occurred?

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

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7.5 Part of the body affected (Tick as applicable):

Head	<input type="checkbox"/>	Eyes	<input type="checkbox"/>	Neck	<input type="checkbox"/>	Back	<input type="checkbox"/>
Arm	<input type="checkbox"/>	Wrist	<input type="checkbox"/>	Forehead	<input type="checkbox"/>	Hand	<input type="checkbox"/>
Leg	<input type="checkbox"/>	Ankle	<input type="checkbox"/>	Foot	<input type="checkbox"/>	Other	<input type="checkbox"/>
Face	<input type="checkbox"/>	Internal	<input type="checkbox"/>	Multiple Injuries	<input type="checkbox"/>		

7.6 Nature of Injury

Minor Cut	<input type="checkbox"/>	Deep Cut	<input type="checkbox"/>	Electric Shock	<input type="checkbox"/>
Bone Fracture	<input type="checkbox"/>	Burn/scald	<input type="checkbox"/>	Skin Damage	<input type="checkbox"/>
Sparin/Strain	<input type="checkbox"/>	Asphyxiation	<input type="checkbox"/>	Poisoning	<input type="checkbox"/>
Others	<input type="checkbox"/>				

7.7 Treatment Given:

7.8 Severity of the injured Person (Tick as applicable):

First Aid:	<input type="checkbox"/>	Temporary Partial disability	<input type="checkbox"/>
Doctor Case	<input type="checkbox"/>	Temporary total Disability	<input type="checkbox"/>
Permanent Total disability	<input type="checkbox"/>		
Fatality	<input type="checkbox"/>	(Loss of Life)	

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019



8 Prepared By:

Name: _____

Signature _____

Designation _____

Company Egas Pvt., Ltd.

EGAS HSE File: _____



INCIDENT/ACCIDENT INVESTIGATION REPORT

Category "B" report to be filled and attached with category "A" Form

Incident Ref.No : _____

Date: _____

Time: _____

1. Root Causes :

2. Technical Dimensions

At the time of incident	Operation Safe Range
Temperature	
CNG Capacity	
Working Pressure	
Standard Threshold of Safety Valve	
Inspection Validation	

3. Immediate Action Taken :

4. Recommendations:

EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

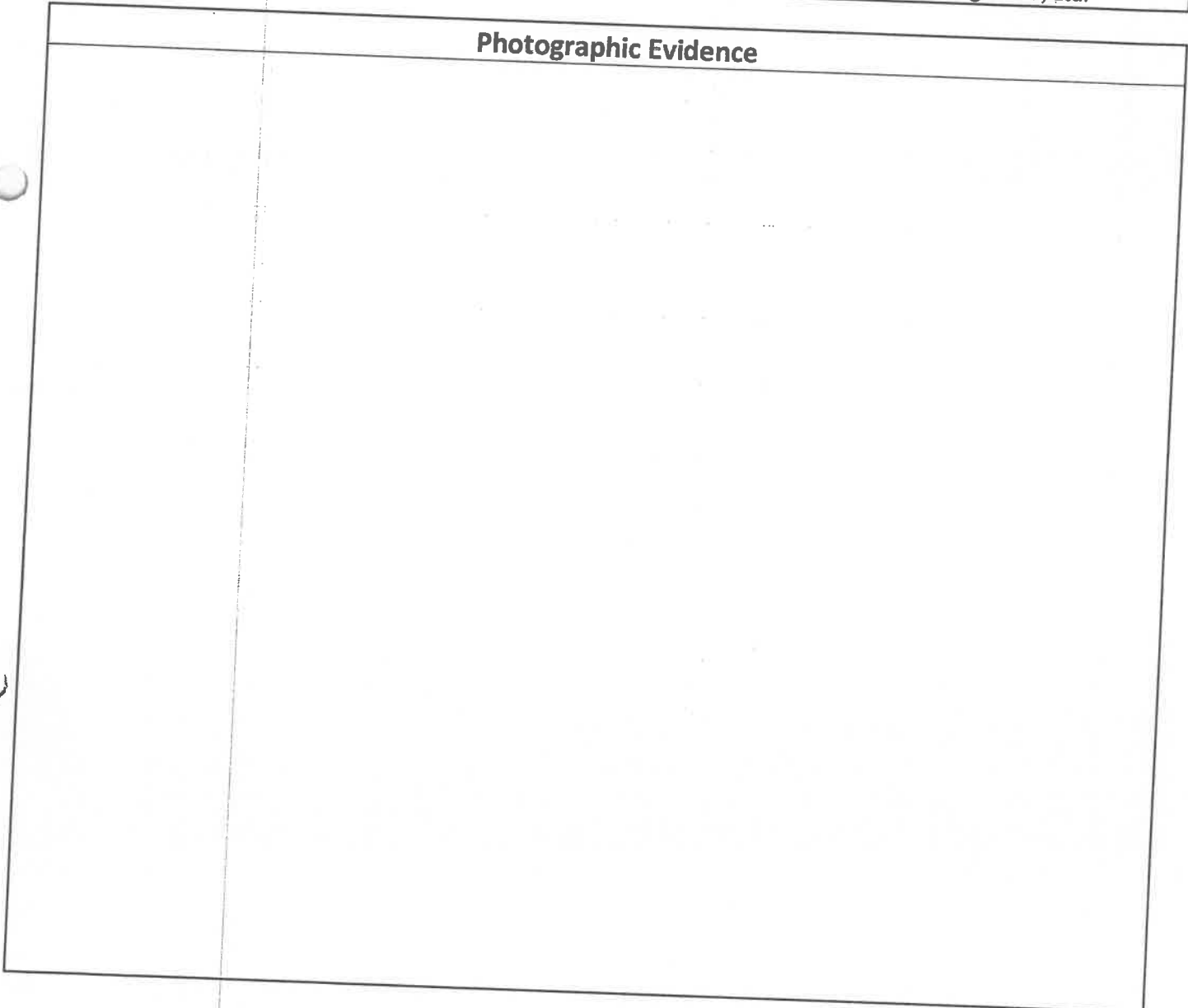


9c

5. Investigated By:

Name	Sign & Date	Position	Company
			Egas Pvt., Ltd.
Name	Sign & Date	Position	Company
			Egas Pvt., Ltd.

Photographic Evidence



EGAS DOC. NO.	EGAS-HSE-001	PAGE NO.	
ORIGINATOR NO.	EGAS PROJECT KABIR X-1	REV. 01	DATE : 04-04-2019

This document is Egas's property, and cannot be used by others for any purpose, without prior written consent.



157
EGAS Pvt. Limited

Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

30th December, 2019

Registrar,
Oil and Gas Regulatory authority,
Islamabad.

SUBJECT: SUBMISSION OF 02 SETS OF XEROX COPIES OF LICENSE APPLICATION DOCUMENTS

Dear Sir,

With reference to the subject captioned above and the instructions provided by you, 02 copies of license application for following field has been provided.

1. Kabir X-1
2. Kotri
3. Hala
4. Karak block
5. Dhurnal
6. Ratana
7. Dhok Sultan

Please provide acknowledgement.

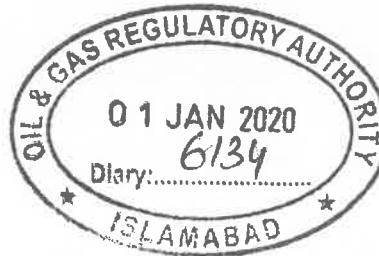
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9
M
Yours Sincerely,



Agha Salman
For and on behalf of
EGAS (PVT) LIMITED

AR

DOP
21/12/2019

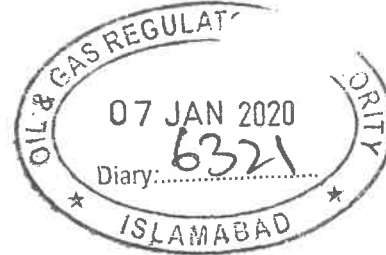




158
EGAS Pvt. Limited

Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Registrar
Oil & Gas Regulatory Authority
Blue Area, Islamabad



4th January 2020
OGRA/EGAS/Kabir/3-2020

**APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY
COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE,
TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS AT**

Concession	GAMBAT SOUTH ✓
Operator	Pakistan Petroleum Ltd ✓
Location	District Sanghar
Well	Kabir X-1

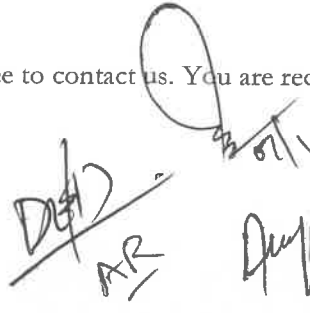
Sir,

This is in continuation of our application dated: 17th December 2019 ref. OGRA /EGAS/Kabir/2-2019.
Please find enclosed license application fee of Rs 500,000/0 through Pay Order No. 00901218 drawn
at JS Bank Ltd.

Should you require further information, feel free to contact us. You are requested to process our
application for License.

Sincerely Yours


Dr Taimur Raza
Director

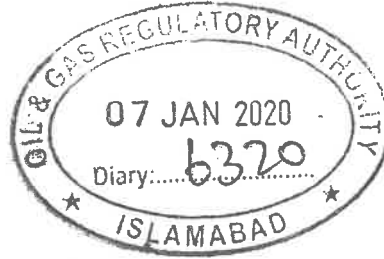

AR
21/1/2020



159
EGAS Pvt. Limited

Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Registrar
Oil & Gas Regulatory Authority
Blue Area, Islamabad



4th January 2020
OGRA/EGAS/Dhok Sultan/3-2020

**APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY
COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE,
TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS AT**

Concession	DHOK SULTAN
Operator	Pakistan Petroleum Ltd ✓
Location	District Attock
Well	Dhok Sultan X-1

Sir,

This is in continuation of our application dated: 18th December 2019 ref. OGRA/EGAS/Dhok Sultan /2-2019.

Please find enclosed license application fee of Rs 500,000/- through Pay Order No. 00901218 drawn at JS Bank Ltd.

Should you require further information, feel free to contact us. You are requested to process our application for License.

Handwritten notes:
DAD
AR
2/11/2020

Sincerely Yours,

Signature of Dr Taimur Raza
Dr Taimur Raza
Director



EGAS Pvt. Limited

Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Registrar,
Oil & Gas Regulatory Authority
Islamabad

22nd January 2018
Ref: OGRA/EGAS-024

**REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY OF LOW
PRESSURE FLARE GAS, STORAGE, TRANSPORTATION & MARKETING OF CNG
AND SALE OF NATURAL GAS**

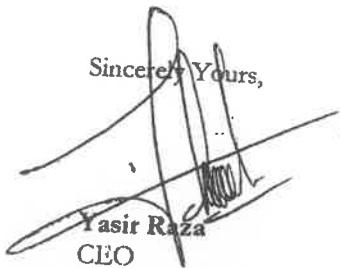
-KABIR X-1 GAS SALE AGREEMENT

Dear Sir,

This is with regards to your letter OGRA-9(35)/2017 dated January 2nd 2018 and our letter dated 3rd January 2018.

Please find attached the gas sale agreement for Kabir X-1 Well. Kindly process our request for license issuance.

Sincerely Yours,


Yasir Raza
CEO



*Modomaf X-1
attached please
confirm this, accordingly*

Amir B...

Encl:

- 1. GSA Kabir X-1





EGAS Pvt. Limited ¹⁶³

Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Registrar,
Oil & Gas Regulatory Authority
Blue Area
Islamabad

7th Feb 2020

Ref: OGRA/EGAS/04-2020

Submission of Application For Compression Facility Of Low Pressure Flare Gas, Storage, Transportation And Marketing Of CNG And Sale Of Natural Gas

Sir,

This is with refence to our applications for license submitted on 19th December 2020 for the following gas fields;

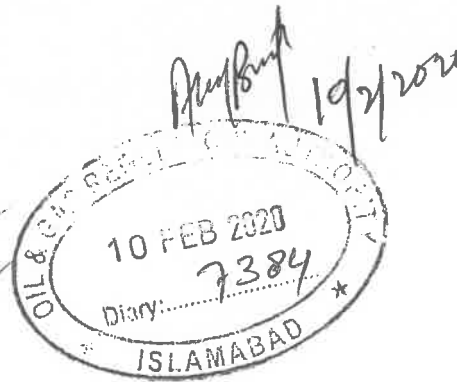
- ✓ 1. Kabir X-1
- ✓ 2. Dhok Sultan X-1
- ✓ 3. Dhurnal
- ✓ 4. Ratana
5. Halini
6. Bashar X-1
7. Yassar X-1

We hereby draw your kind attention to OGRA Licensing Rules 2002 clause 8 wherein the registrar shall reply to applicant for conformity of application or otherwise.

We haven't received any correspondence on the said applications to date. You are kindly requested to process the said applications at the earliest.

Sincerely Yours,

Yasir Raza
CEO





EGAS Pvt. Limited 164
Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Registrar,
Oil & Gas Regulatory Authority
Blue Area
Islamabad

3rd March 2020
Ref: OGRA/EGAS/06-2020

EGAS PVT LTD – APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE, TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS

Concession	KABIR -1
Location	Shahdadpur District Sanghar

SUBMISSION OF FORM 'S' LICENSES

Sir,

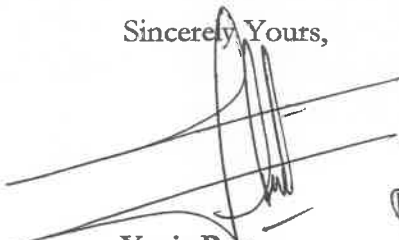
This is with refence to our application for License at Kabir X-1 Gambat South Concession.

Please find attached a copy of 'Form S' License to Transport Compressed Natural Gas in Bulk on Land By Mechanical Propelled Vehicle valid till 31.12.2020.

1. BTL-378/CNG
2. BTL-379/CNG
3. BTL-380/CNG
4. BTL-381/CNG

You are requested to process our application, at the earliest.

Sincerely Yours,


Yasir Raza
CEO

Please process
04/3
AB

Amir Khan
4/3/20



ORIGINAL

FORM S

[Article 14 of Schedule I]

LICENSE TO TRANSPORT COMPRESSED NATURAL GAS IN BULK ON LAND BY
MECHANICAL PROPELLED VEHICLE. (COMPRESSED NATURAL GAS
STORAGE CYLINDER MOUNTED IN VEHICLE FOR
FUELING ARE EXEMPTED).

License No. BTL-378/CNG

Fee Rs.10000/-

License is hereby granted to M/s. EGas (Pvt) Limited, Honda Centre, 300, Peshawar Road, Rawalpindi, to transport compressed natural gas by the vehicle as described below subject to the provisions of the Petroleum Act 1934 the rules made there under and to the further conditions of this license.

This license will remain valid up to the 31st day of December 2019.

Dated: /0 .12-2019

M. N. Khan
Director General
Department of Explosives
Director General
Department of Explosives

Approved Plan. No. BTL-378/CNG

Dated. 02-12-2019.

DESCRIPTION OF THE VEHICLE

Make and Model: SCANIA 2019
Chassis Number: 5534649

Engine Number: OC1310L017137562
Registration Numbers: RIS-19-8200

Name of the registered owner: M/s. Habib Bank Limited.
Chemical name of the compressed natural gas to be carried in the Vehicle: CNG
Authorized carrying capacity of the container (04 No. Tubes 8500 W/L each)=
Total Capacity 34000 Water Liters.

ENDORSEMENT OF RENEWALS

Date of Renewal	Date of Expiry	Signature and office Stamp of the Licensing Authority
Renewed upto	31-12-2020	<i>M. N. Khan</i> Director General Department of Explosives

This license is liable to be cancelled if the licensed vehicle is not found conforming to the description of approved plan by Department of Explosives vide No. BTL-379/CNG dated 02.12.2019 and conditions attached thereto, and contravention of any of the rules and conditions under which this license is granted and the holder of this license is also punishable with fine which may extend to thirty thousand rupees.

ORIGINAL FORM S

[Article 14 of Schedule I]

LICENSE TO TRANSPORT COMPRESSED NATURAL GAS IN BULK ON LAND BY
MECHANICAL PROPELLED VEHICLE. (COMPRESSED NATURAL GAS

STORAGE CYLINDER MOUNTED IN VEHICLE FOR
FUELING ARE EXEMPTED).

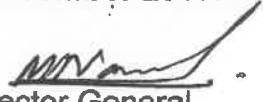
License No. BTL-379/CNG

Fee Rs.10000/-

License is hereby granted to **M/s. EGas (Pvt) Limited**, Honda Centre, 300, Peshawar Road, Rawalpindi, to transport compressed natural gas by the vehicle as described below subject to the provisions of the Petroleum Act 1934 the rules made there under and to the further conditions of this license.

This license will remain valid up to the **31st day of December 2019**.

Dated: **10** -12-2019


Director General
Department of Explosives
Director General
Department of Explosives

Approved Plan. No. BTL-379/CNG

Dated. 02-12-2019.

DESCRIPTION OF THE VEHICLE

Make and Model: SCANIA 2019
Chassis Number: 5534173


Engine Number: OC131017135921
Registration Numbers: RIS-19-8500

Name of the registered owner:- M/s. Habib Bank Limited.

Chemical name of the compressed natural gas to be carried in the Vehicle: CNG

Authorized carrying capacity is:- 44264 Water Liters.

ENDORSEMENT OF RENEWALS

Date of Renewal	Date of Expiry	Signature and office Stamp of the Licensing Authority
Renewed upto	31-12-2020	 Director General Department of Explosives

This license is liable to be cancelled if the licensed vehicle is not found conforming to the description of approved plan by Department of Explosives vide No. BTL-379/CNG dated 02.12.2019 and conditions attached thereto, and contravention of any of the rules and conditions under which this license is granted and the holder of this license is also punishable with fine which may extend to thirty thousand rupees.

FORM S

[Article 14 of Schedule I]

LICENSE TO TRANSPORT COMPRESSED NATURAL GAS IN BULK ON LAND BY MECHANICAL PROPELLED VEHICLE. (COMPRESSED NATURAL GAS

STORAGE CYLINDER MOUNTED IN VEHICLE FOR FUELING ARE EXEMPTED).

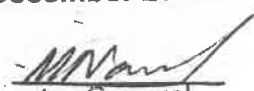
License No. BTL-380/CNG

Fee Rs. 10000/-

License is hereby granted to M/s. EGas (Pvt) Limited, Honda Centre, 300, Peshawar Road, Rawalpindi, to transport compressed natural gas by the vehicle as described below subject to the provisions of the Petroleum Act 1934 the rules made there under and to the further conditions of this license.

This license will remain valid up to the 31st day of December 2020.

Dated: 30 .01-2020


Director General
Department of Explosives
Director General
Department of Explosives.

Approved Plan. No. BTL-380/CNG

Dated. 24-01-2020

DESCRIPTION OF THE VEHICLE

Make and Model: HINO 2016
Chassis Number: FM2PKA18763

Engine Number: P11CUBM14589
Registration Numbers: RIS-16-8400

Name of the registered owner:- M/s. Sindh Leasing Company Limited.
Chemical name of the compressed natural gas to be carried in the Vehicle: CNG
Authorized carrying capacity is:- 24640 Water Liters.

ENDORSEMENT OF RENEWALS

Date of Renewal	Date of Expiry	Signature and office Stamp of the Licensing Authority

This license is liable to be cancelled if the licensed vehicle is not found conforming to the description of approved plan by Department of Explosives vide No. BTL-379/CNG dated 02.12.2019 and conditions attached thereto, and contravention of any of the rules and conditions under which this license is granted and the holder of this license is also punishable with fine which may extend to thirty thousand rupees.

FORM S

[Article 14 of Schedule I]

LICENSE TO TRANSPORT COMPRESSED NATURAL GAS IN BULK ON LAND BY MECHANICAL PROPELLED VEHICLE. (COMPRESSED NATURAL GAS

STORAGE CYLINDER MOUNTED IN VEHICLE FOR FUELING ARE EXEMPTED).

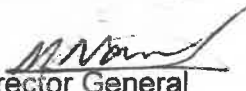
License No. BTL-381/CNG

Fee Rs. 10000/-

License is hereby granted to M/s. EGas (Pvt) Limited, Honda Centre, 300, Peshawar Road, Rawalpindi, to transport compressed natural gas by the vehicle as described below subject to the provisions of the Petroleum Act 1934 the rules made there under and to the further conditions of this license.

This license will remain valid up to the 31st day of December 2020.

Dated: 30 .01-2020


Director General
Department of Explosives
Director General
Department of Explosives

Approved Plan. No. BTL-381/CNG

Dated. 24-01-2020

DESCRIPTION OF THE VEHICLE

Make and Model: HINO 2017

Engine Number: P11CUBM14648

Chassis Number: FM2PKPA18822

Registration Numbers: RIS-17-5000

Name of the registered owner:- M/s. Orix Modaraba.

Chemical name of the compressed natural gas to be carried in the Vehicle: CNG

Authorized carrying capacity is:- 24640 Water Liters.

ENDORSEMENT OF RENEWALS

Date of Renewal	Date of Expiry	Signature and office Stamp of the Licensing Authority

This license is liable to be cancelled if the licensed vehicle is not found conforming to the description of approved plan by Department of Explosives vide No. BTL-379/CNG dated 02.12.2019 and conditions attached thereto, and contravention of any of the rules and conditions under which this license is granted and the holder of this license is also punishable with fine which may extend to thirty thousand rupees.



169
EGAS Pvt. Limited
Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Registrar,
Oil & Gas Regulatory Authority
Blue Area
Islamabad

6th March 2020
Ref: OGRA/EGAS/09-2020

EGAS PVT LTD - APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE, TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS

Well	KABIR X-1
Location	Shahdampur District Sanghar
Concession	Gambat South

CHECLIST OF SUBMITTED DOCUMENTS

Sir,

This is with refence to our application for License at Kabir X-1 Gambat South Concession.

Please be apprised that we have completed all requisite formalities as listed below for the said application as per NGRA Licensing Rules 2002 clause 4 sub rule 1 & clause 5;

Sr	Document	Status
1	Schedule I	submitted
2	Valid Gas Sale Agreement	submitted
3	Gas Specification	submitted
4	Fees PKR 500,000/-	Vide Pay Order 8674 dated: 7-Jan-2020
5	Attested Copy of Articles & Memorandum	submitted
6	Certificate of Commencement of Business	submitted
7	Annual audited accounts	submitted
8	Technical & Financial Expertise	submitted
9	Handling of Emergency Situations	submitted
10	Market Data	submitted
11	Source & Quality of Natural Gas	submitted
12	Technical specifications of distribution	submitted
13	Explosives License Form S	submitted
14	Explosives License Form A	submitted
15	List of Daughter Stations	submitted

You are requested to process our application at the earliest.

Sincerely Yours,

Yasir Raza
CEO



Handwritten signatures and dates: 10/3/20, 9/3/20, 9/3/20, AR, 9/3/20



EGAS Pvt. Limited 170
Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Registrar,
Oil & Gas Regulatory Authority
Blue Area
Islamabad

6th March 2020
Ref: OGRA/EGAS/08-2020

EGAS PVT LTD – APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE, TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS

Well	KABIR X-1
Location	Shahdampur District Sanghar
Concession	Gambat South

SUBMISSION OF DAUGHTER STATION

Sir,

This is with refence to our application for License at Kabir X-1 Gambat South Concession.

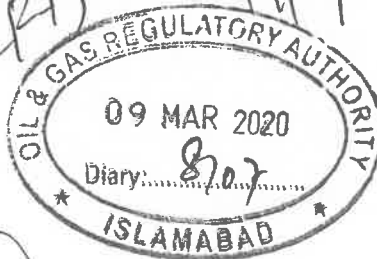
Please find below a list of daughter stations that will be supplied by us.

Sr	Name	Address
1	Meher Filling Station	Shell Outlet,F-7 Markaz Islamabad
2	Decent CNG & Petroleum Service	GT Road Rawat

You are requested to process our application at the earliest.

Sincerely Yours,

Yasir Raza
CEO



AR 9/3



EGAS Pvt. Limited 171

Honda Centre,
300 Peshawar Road, Rawalpindi
Tel: +92 51 512 5181-5
Fax: +92 51 512 5186
E-mail: sales@egas.com.pk
www.egas.com.pk

Chairperson,
Oil & Gas Regulatory Authority
Blue Area
Islamabad

6th March 2020
Ref: OGRA/EGAS/10-2020

EGAS PVT LTD - APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE, TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS

Well	KABIR X-1
Location	Shahdadpur District Sanghar
Concession	Gambat South

REQUEST TO EXPEDITE ISSUANCE OF LICENSE

Sir,

This is with refence to our application for License at Kabir X-1 Gambat South Concession.

We hereby inform that we have completed all requisite formalities as listed below for the said application as per NGRA Licensing Rules 2002 clause 4 sub rule 1 & clause 5;

Sr	Document	Status
1	Schedule I	submitted
2	Valid Gas Sale Agreement	submitted
3	Gas Specification	submitted
4	Fees PKR 500,000/-	Vide Pay Order 8674 dated: 7-Jan-2020
5	Attested Copy of Articles & Memorandum	submitted
6	Certificate of Commencement of Business	submitted
7	Annual audited accounts	submitted
8	Technical & Financial Expertise	submitted
9	Handling of Emergency Situations	submitted
10	Market Data	submitted
11	Source & Quality of Natural Gas	submitted
12	Technical specifications of distribution	submitted
13	Explosives License Form S	submitted
14	Explosives License Form A	submitted
15	List of Daughter Stations	Submitted
16	Third Party Inspection of Site	Pending by Gas Department
17	Public Notice	Pending by Gas Department
18	Public Hearing	Pending by Gas Department

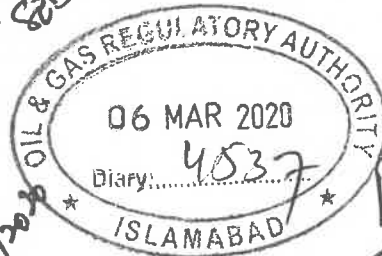
You are requested to direct the gas department to expedite the process and issue the said license.

Sincerely Yours,

Yasir Raza
CEO

cc: Member Gas

Registration. / set Gas / envg.
Pl deal. set envg.
9/3/2020



Planned Approval
Amir Bani
9/3/20
AR

Chairperson's Secretariat, OGRA
Date: 3 Time: 5:30 Dy. No. 2717

P. 1-1-2020



Premium Bill / Sales Tax on Services Invoice

Sales Tax details of Insurance Company

STRN: 17-00-9805-042-19 N.T.N: 0944893-4

Islamabad
1st Floor, Kamran Centre, 85-East
Jinnah Avenue, Blue Area,
Islamabad
Tel +92 51 2150375,2150376
Fax +92 51 2150379
email islamabad@efuinsurance.com
URL www.efuinsurance.com

17

Fire Material Damage

H.S.Code:

Sales Tax Invoice No 38430448901000000000

Insured:	Egas (Pvt) Ltd	Policy Invoice No:	3843005669/12/2019
Address	Honda Centre 300-Peshawar Road Rawalpindi,Punjab	Cover Note No	3840448901/11/2019
Province: Sindh	City: Sanghar	Sum Insured:	42,280,000
Area:	Sanghar		(Pak Rupees: Forty-two million two hundred eighty thousand only)
Sales Tax details of the Insured:		Issued at:	Islamabad
		Date:	23rd December 2019
		Client Code:	273443
		Agent Code:	365722
STRN:	26-00-2861-597-19	From:	28th November 2019
NTN:	2861597-2	To:	28th November 2020

Premium Calculation

<u>Particulars</u>	<u>Rate(%)</u>	<u>Amount(PKR)</u>
Basic Premium		84,560
Administrative Surcharge	5.00%	4,228
Sub-Total		<u>88,788</u>
Federal Insurance Fee	1.00%	888
Sales tax on Services	16.00%	14,206
Stamp Duty		5
Total		<u>103,887</u>

(Pak Rupees: One hundred three thousand eight hundred eighty-seven only)

This Invoice form is not a receipt. No receipt is valid unless made out on the Insurance Company's official cash receipt form and signed by a duly authorised officer of the Insurance Company's

Any alteration or amendment shall render this document invalid

For & on behalf of EFU General Insurance Ltd



Abdul Qadeer Lehri
Assistant Registrar
Oil & Gas Regulatory Authority
Blue Area, Islamabad

16th May 2020
Ref: OGRA/EGAS/2020

EGAS PVT LTD - APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE, TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS (KABIR X-1)

Sir,

Please refer to OGRA letter OGRA-9(550)/2020 dated May 15th 2020.

Please find our point-wise reply stated below;

1. The Extension of Kabir X-1 GSA is being issued by Pakistan Petroleum Ltd and will be submitted to OGRA in next week.
2. Latest Gas Specification Report by PERAC/PRD dated: 11-12-19 was submitted on 28th April 2020.
3. We have requested the CNG Department to issue compliance letter (alteration of works approval letter) to Gas Department so that the nominated two daughter stations can be made part of the said license.
4. The EGAS Financial capability statement/ details were submitted along with all enclosed documents vide letter dated: 2nd May 2020 received on 4th May 2020 at OGRA (copy attached).
5. The PRD gas specification report dated: 11-12-2019 recorded the moisture content = 0.8 mg/L = 49.94 lbs/MMSCF. The sample was drawn from raw unprocessed gas at the facility when the equipment wasn't in operation. However, all equipment for HDPC (hydrocarbon dew point control) that includes Gas Chillers & Molecular Sieve Solid Desiccant Dehydration Unit are installed at site and ready for operation. The Engineering Consultant has conducted HYSYS simulation process flow diagram proves that after treatment the final sale gas H₂O content will be 0.01 Mole % which exceeds the OGRA specification/standards.

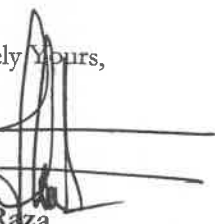
Not provided as yet?
? Not found in file?
? No NOC/fitness certificate for CNG provided?

The following Design Reports & Process Flow Diagram's are enclosed for your review and satisfaction;

1. Design Philosophy
 - i) Annex. 1 Simulation PFD's
2. Complete P&ID's
3. PEC certified Consulting Engineers Global PMC Pvt Ltd's Profile
4. HAZOP Study

You are requested to carry out OGRA nominated third party inspection for evaluation, verification & compliance of the installed facility with CNG Rules 1992

Sincerely Yours,


Yasir Raza
CEO

AR 18/5/20
SBD Chem
BD CR-L
AR 18/5/20



Abdul Qadeer Lehri
Assistant Registrar
Oil & Gas Regulatory Authority
Blue Area, Islamabad

2nd May 2020 /
Ref: OGRA/EGAS/10-2020

EGAS PVT LTD – APPLICATION FOR REGULATED ACTIVITIES RELATED TO COMPRESSION FACILITY OF LOW PRESSURE FLARE GAS, STORAGE, TRANSPORTATION AND MARKETING OF CNG AND SALE OF NATURAL GAS

Sir,

This is with reference to your letter ref. OGRA-6(1)-EGAS/2019-FG dated: April 29, 2020 for our seven applications for license.

In reply to your query please find our reply stated below;

m) That you have filed seven (7) applications for different gas fields on above subject, therefore along with details of financial resources needed to carry out the regulated activities as the financial statement ending in June 2019 has mentioned/ showed equity of Rs 50.0 M only which seems insufficient for carrying out all these regulated activities/ projects.

The following factors need to be considered in investment plan;

a) In addition to our own cash flows; we have acquired lease/ loan facilities from the following banks FI's (FAL copies enclosed);

Sr	Bank	Funded Facility	Non-Funded Facility
1	JS Bank Ltd	PKR 80.0 M	PKR 250.0 M
2	Habib Bank Ltd	PKR 400.0 M	PKR 150.0 M
3	Orix Modaraba	PKR 70.0 M	-
4	Orix Leasing Pak Ltd	PKR 60.0 M	-
		Total: PKR 610.0 M	Total: PKR 400.0 M

b) Although, we have applied for 7 different locations but they will be executed in a phased manner after all license obligations are complete and license is issued.

c) Each facility will be scaled up with time in terms of increased gas compression and flow thereby addition/ increase of transport fleet.

You are requested to process our applications at the earliest.

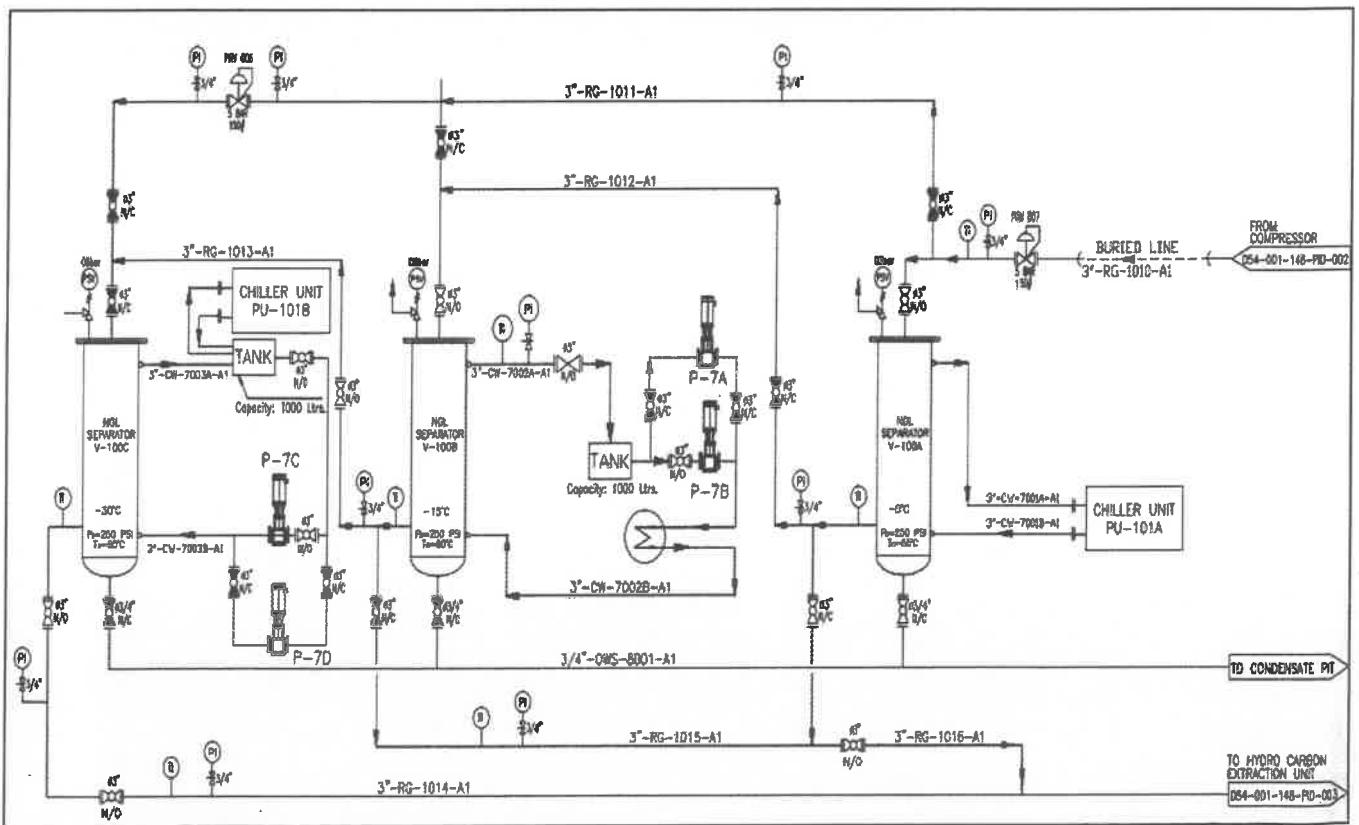
Sincerely Yours,


Yasir Raza
CEO



EGAS (PRIVATE) LIMITED

Design Philosophy of CNG Processing Plant



Consultant:



Office Address:
 Global PMC (Private) Limited
 A-474, Block '1' Gulshan-e-Iqbal
 Karachi-75300, Pakistan

Phone: 9221-34987960,
 34987962
 E-mail:
 contact@globalpmc.com.pk
 Web: www.globalpmc.com.pk

4/10

Table of Contents

1. INTRODUCTION	3
2. PROCESS DESCRIPTION.....	3
3. PLANT DEFINITION.....	4
4. SYSTEM OF UNITS.....	4
5. RAW GAS COMPOSITION.....	5
6. EQUIPMENT DESIGN CAPACITIES	6
7. SALES GAS COMPOSITION.....	6
8. EQUIPMENT OPERATING CONDITIONS	7
9. PROCESS GAS SYSTEM.....	8
10. COOLING WATER SYSTEM.....	9
11. POWER GENERATION SYSTEM	9

Issued for Review & Comments

1. INTRODUCTION

This report is intended to describe the Gas Compression Facility details and its operations. The raw gas is being treated in order to make it in saleable product for commercial market and to meet the product specifications.

2. PROCESS DESCRIPTION

The gas produced from kabir gas field is being supplied to the facility where the gas is being compressed and treated to remove the natural gas liquids, heavy hydrocarbons and water present in the gas in order to produce gas suitable for sale. The block flow diagram of the facility is as follows:

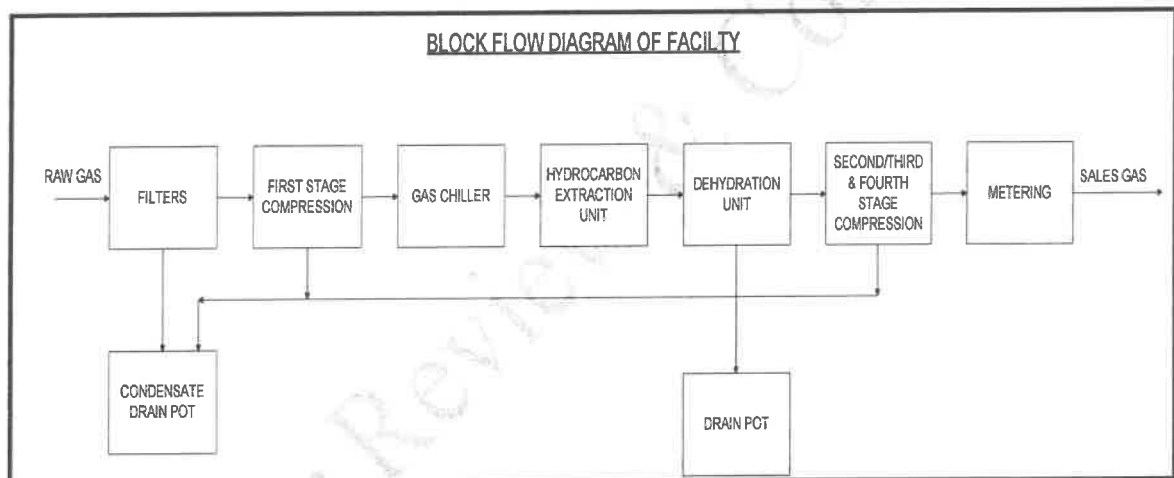


FIGURE 1: Block Flow Diagram

As illustrated in the above figure the raw gas is received from Kabir gas plant to the CNG facility at 21°C and 20 psig, where the gas is first been filtered and then sent to (01) one of the (04) four compressors (Four stage compressors) install to compress the gas, the first stage discharge of the compressor which is at 57.82 psig and 102°C which is then cooled to 40°C by cooling water and then the gas enters to Gas Chiller where the gas is cooled up to 7°C. The cooled gas then goes to Hydrocarbon extraction unit and then to dehydration unit (mol. sieves) where the water from the gas is being absorbed and the natural gas of -40°C water dew point is produced. The treated gas is then being compressed and cooled in order to achieve gas pressure of 3600 psig and 40°C the gas is then metered and sent to the filling point.

3. PLANT DEFINITION

The treating facility consists of the following:

1. Four (04) compressors
2. Gas Chillers
3. Hydrocarbon extraction unit
4. Dehydration Unit
5. Cooling Water System
6. Instrument Air Compressor
7. Generator
8. Metering

4. SYSTEM OF UNITS

PARAMETER		UNIT
Pressure	:	Psig
Temperature	:	°C
Volumetric Flow Rate (Gas)	:	Nm ³ /h
Volume	:	US gpm
Mass Flow Rate	:	Kg/h
Volumetric Flow Rate	:	m ³ /h
Power	:	kW
Heat Transfer Rate	:	KW / Kcal/h
Dew Point	:	°C

TABLE 1 – Units

5. RAW GAS COMPOSITION

COMPONENTS	Mole%
Carbon Dioxide	2.803
Nitrogen	2.206
Methane	73.562
Ethane	12.089
Propane	6.655
Iso-Butane	0.697
N-Butane	1.458
Iso-Pentane	0.211
N-Pentane	0.328
N-Hexane	Traces
Heptane Plus	Traces
Total	100

TABLE 2 – Raw Gas Composition

COMPONENTS	Mole%
Carbon Dioxide	2.77
Nitrogen	2.19
Methane	73.29
Ethane	12.03
Propane	6.63
Iso-Butane	0.069
N-Butane	1.45
Iso-Pentane	0.21
N-Pentane	0.33
N-Hexane	0.01
Heptane Plus	0.00
Water	0.39
Total	100

TABLE 3 – Raw Gas Composition Saturated with Water

6. EQUIPMENT DESIGN CAPACITIES

EQUIPMENT	TAG	CAPACITY	UNIT
Compressor	X-101	160	kW
Compressor	X-102	160	kW
Compressor	X-103	160	kW
Compressor	X-104	160	kW
Gas Chiller		290	kW
Inst. Air Compressor	PU-103	7.5	kW
Generator	PU-102	750	kW
Generator	PU-104	750	kW
Cooling Tower	CT-1	500,000	kcal/h
Cooling Tower	CT-2	500,000	kcal/h
Cooling Tower	CT-3	500,000	kcal/h

TABLE 4 – Equipment Design Capacities

7. SALES GAS COMPOSITION

COMPONENTS	Mole%
Carbon Dioxide	2.78
Nitrogen	2.20
Methane	73.58
Ethane	12.08
Propane	6.66
Iso-Butane	0.70
N-Butane	1.46
Iso-Pentane	0.21
N-Pentane	0.33
N-Hexane	0.00
Heptane Plus	0.00
Water	0.01
Total	100

TABLE 5 – Sales Gas Composition



8. EQUIPMENT OPERATING CONDITIONS

Equipment	Pressure (psig)	Temperature (°C)
Comp. First Stage Suction	15	20
Comp. First Stage Disc.	129	143
Gas Chiller Inlet	124	40
HC Extraction Unit Inlet	114	7
Dehydration Unit Inlet	109	7
Comp. Second Stage Suction	108	7
Comp. Second Stage Disc.	739	150
Comp. Third Stage Suction	734	40
Comp. Third Stage Disc.	2717	150
Comp. Fourth Stage Suction	2712	40
Comp. Fourth Stage Disc.	3615	58
Metering	3600	40

TABLE 6 – Operating Conditions

Equipment	Pressure Drop (psi)
Suction Filters (F-100 / 101 / 102 / 103)	5
Gas Chiller	10
Hydrocarbon Extraction Unit	5
Cooling Water (Gas Circuit)	5
Cooling Water (Water Circuit)	5
Final Filter (F-106)	5
Metering	5

TABLE 7 – Equipment Pressure Drop



9. PROCESS GAS SYSTEM

The raw gas is being supplied through X-1 Kabir Wellhead to the gas compression facility at 21 °C and 20 psig. The raw gas is then passed through filters (F-100/F-101 & F-102) from where the gas is routed to each compressor first stage. Each Compressor has its own pre-filter. The gas is distributed in to number of compressors in operation and goes to the gas at compressor suction is at 21°C and 15 psig, where it is compressed to 129 psig 143 °C. The process gas is then cooled to 124 psig and 40 °C. The gas from each compressor in operation is combined and then gas to the Gas Chillers. In Gas Chillers the gas is cooled with the help of refrigerant up to 109 psig and 7°C, due to this cooling of gas the 2-phase fluid is formed. The fluid then passed through the Hydrocarbon Extraction unit, where liquid hydrocarbons and water (if any) present in the fluid is separated and the then gas goes to Dehydration unit. In dehydration unit the process gas passes through the molecular sieves in order to achieve dew point of -40 °C. The gas from the dehydration unit is at 108 psig and 7 °C, with the dew point of -40 °C i.e. having most of the water in gas has been removed by the sieve beds. The process gas is now again sent to the further compression. After the removal of water from gas, the gas is again distributed in to number of compressors in operation. At the second stage inlet of the compressor the gas is at 7 °C and 108 psig. The gas is compressed up to 739 psig and 150 °C; the gas is then cooled to 734 psig and 40 °C. The gas is then compressed in third stage from 734 psig and 40 °C to 2717 psig and 150 °C gas and then cooled to 2712 psig 40 °C. In fourth stage the compressed to 3615 psig and 58 °C and then cooled to 3610 psig and 40 °C. Finally the gas passed through filter and to the plant metering at 3600 psig and 40 °C. The free water separated is sent to drain pot and liquid hydrocarbon condensate drain pot. Refer to Annexure – I for the PFD.

Each compressor has a design capacity of 750 Nm³/hr at 15 psi and total power of 160 kW. If all compressors are in operation the facility can compress up to 3000 Nm³/hr. The gas metered gas less than 7 lb/ MMSCF of the gas.

10. COOLING WATER SYSTEM

The cooling water system of the facility consists of 3 cooling towers; capacity of each is 500,000 kcal/h. The cooling capacity of the facility is 1,500,000 kcal/h. All Four compressors are being supplied with cooling water. Refer to the Annexure – I for the PFD. The cooling water is being supplied at 72 psig and 35 °C to the exchangers and cooling water return at 67 psig and 45 °C. The number of cooling towers in service depends upon number of compressors in operation. The exchangers details per compressor is being provided in the below table.

Description	Gas Temperature (°C)		Cooling Water Temperature (°C)		Duty (Kcal/h)	Cooling Water Flow (m ³ /h)
	In	Out	In	Out		
First Stage Cooler	143	40	35	45	38720	3.664
Second Stage Cooler	150	40	35	45	45440	4.300
Third Stage Cooler	150	40	35	45	57540	5.445
Fourth Stage Cooler	58	40	35	45	10090	0.954
Duty and Cooling Water requirement per compressor					151790	14.363

TABLE 8 – Duty of the Exchangers

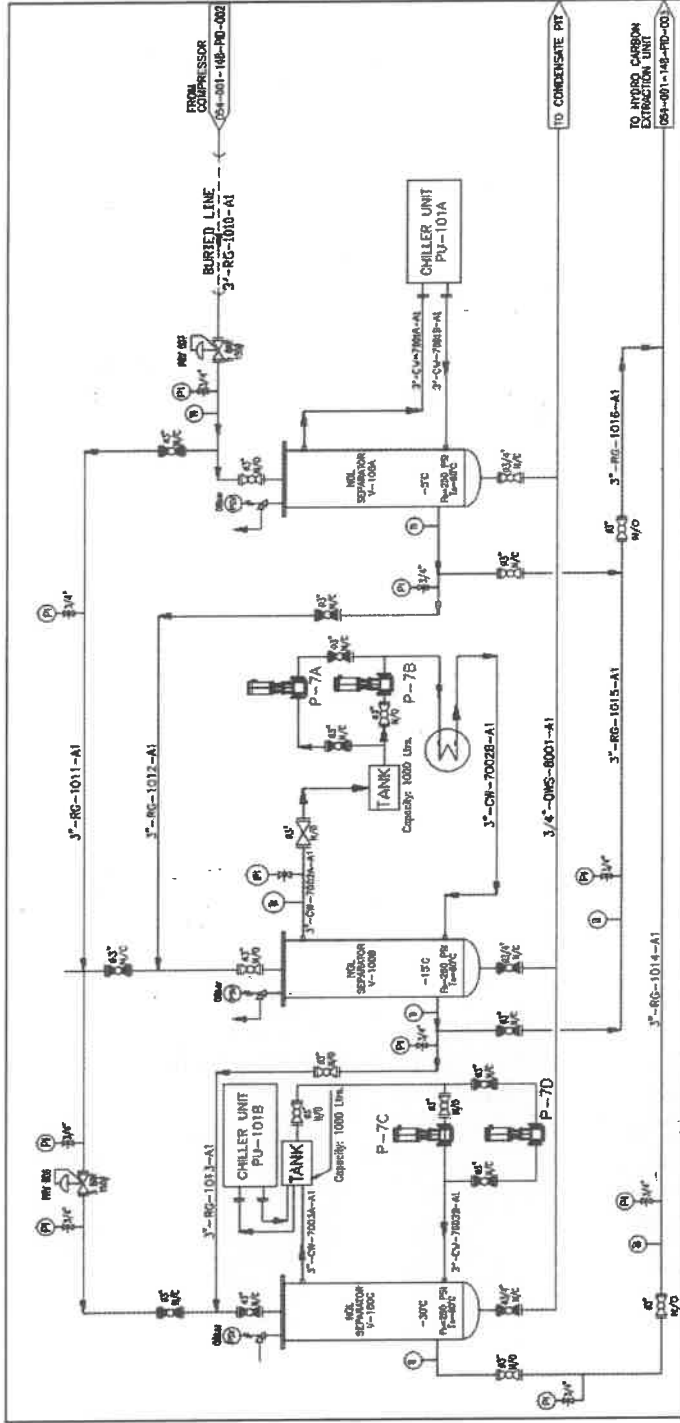
11. POWER GENERATION SYSTEM

Power generation system consists of the (02) two power generator, each generator with capacity of 750 kW. Process gas is used as fuel for the generator.



ANNEXURE - I

EGAS (PRIVATE) LIMITED SIMULATION PFD'S



Consultant:



PMC

Office Address:
Global PMC (Private) Limited
A-474, Block 'I' Gulshan-e-Iqbal
Karachi-75300, Pakistan

Phone: 9221-34987960, 34987962
E-mail: contact@globalpmc.com.pk
Web: www.globalpmc.com.pk

1/8

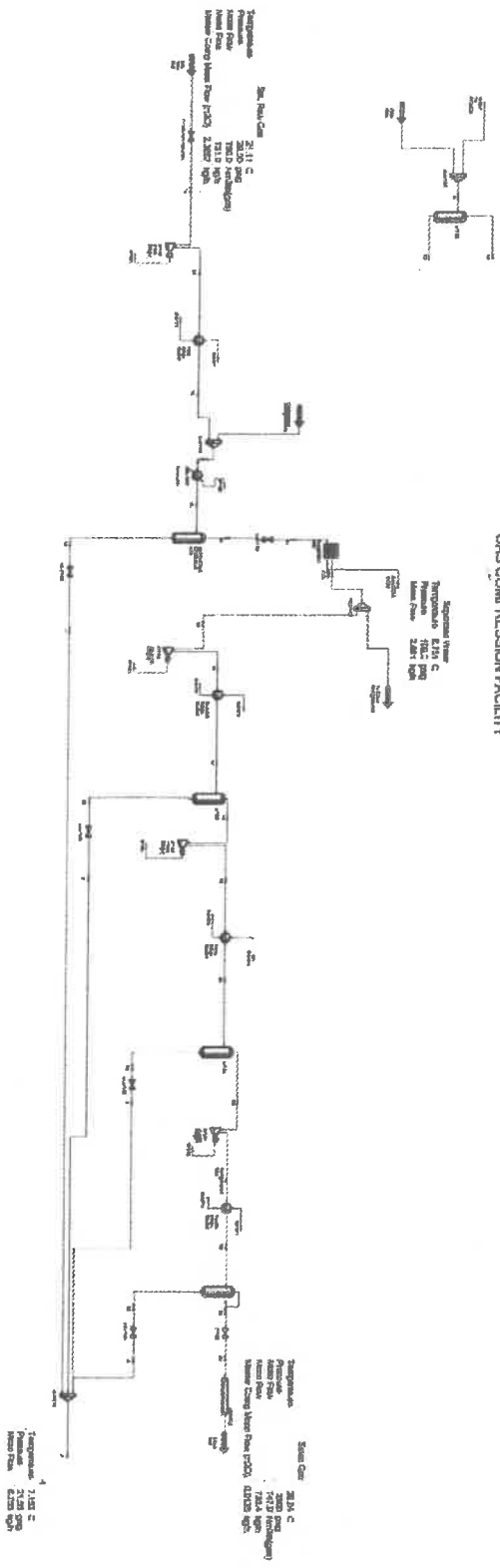


EGAS (PVT.) LTD. ANNEXURE - I SIMULATION PFD's



Issued for Review & Comments

GAS COMPRESSION FACILITY





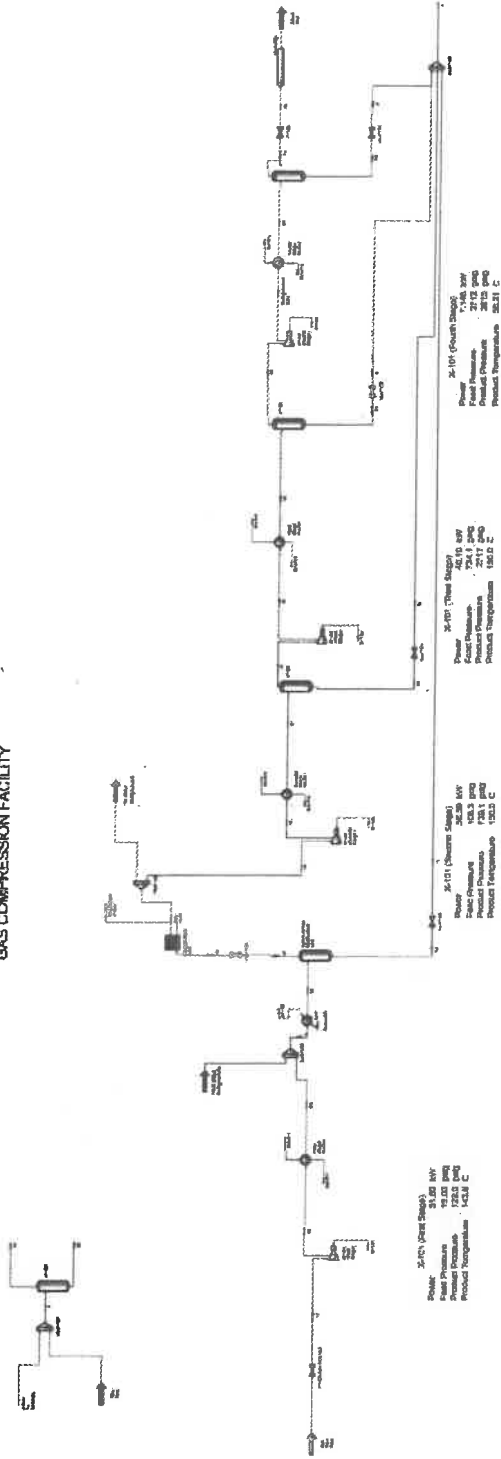
EGAS (PVT.) LTD. ANNEXURE -- I SIMULATION PFD'S



PMC

Issued for Review & Comments

GAS COMPRESSION FACILITY



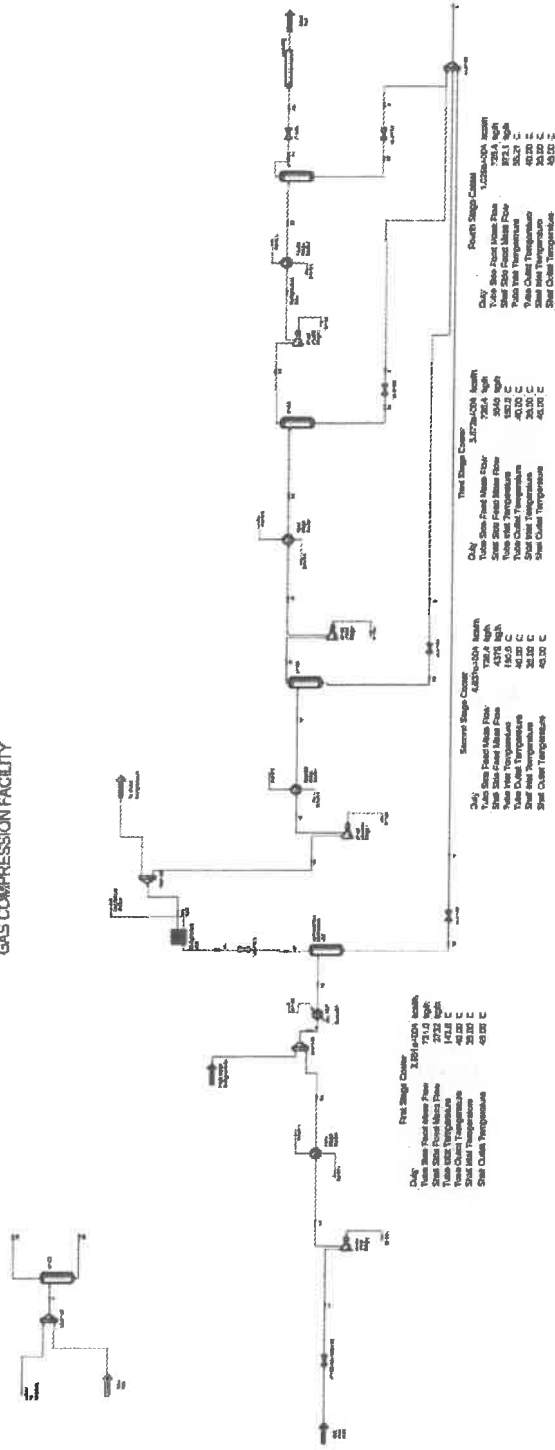


EGAS (PVT.) LTD. ANNEXURE - I SIMULATION PFD'S



Issued for Review & Comments

GAS COMPRESSION FACILITY



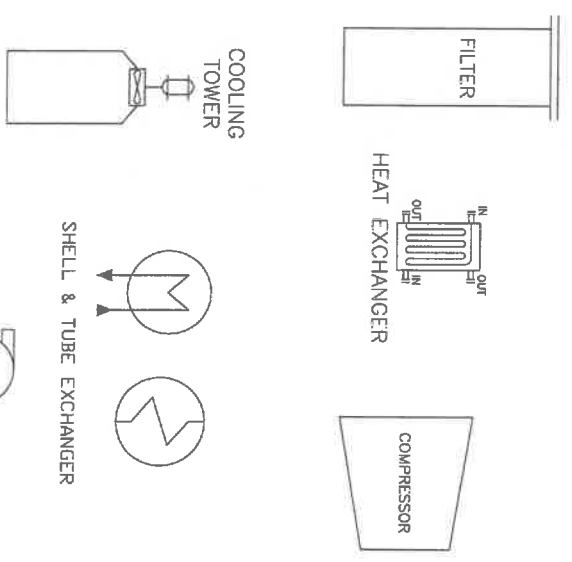
LINE SERVICE SYMBOLS

	SYMBOL
AIR SYSTEMS	IA
INSTRUMENT AIR	
DRAIN SYSTEM	DS
DILY SEWER	
FLARE & BLOWDOWN	HF
FLARE	
GAS SYSTEMS	FG
FULE GAS	
PROCESS SERVICE	PG
PROCESS GAS	SG
SALES GAS	RG
RAW GAS	
WATER SYSTEMS	CW
RECIRCULATING COOLING WATER	OWS
OILY WATER SYSTEM	
PRODUCED WATER	PW

VALVE SYMBOLS

* GATE VALVE	CHOKER VALVE
GLOBE VALVE	DIAPHRAGM VALVE
TAGI	ANGLE VALVE
CHECK VALVE	* THREE-WAY VALVE
PLUG VALVE	FOUR-WAY VALVE
HAND CONTROL VALVE	INSULATED VALVE BODY
BALL VALVE	NEEDLE VALVE
BUTTERFLY VALVE OR DAMPER	VALVE WITH BLEED OR PURGE CONNECTION UNDER DISC
STOP CHECK VALVE	NEEDLE VALVE
BLOWDOWN VALVE	VALVE WITH BLEED OR PURGE CONNECTION UNDER DISC
NEEDLE VALVE	AUTOMATING RECIRCULATION CHECK VALVE

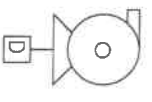
MISC. SYMBOLS



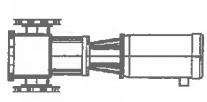
PRESSURE VESSEL



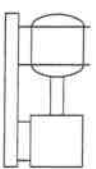
DIESEL ENGINE DRIVEN PUMP



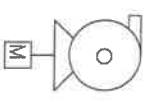
VERTICAL CENTRIFUGAL INLINE PUMP



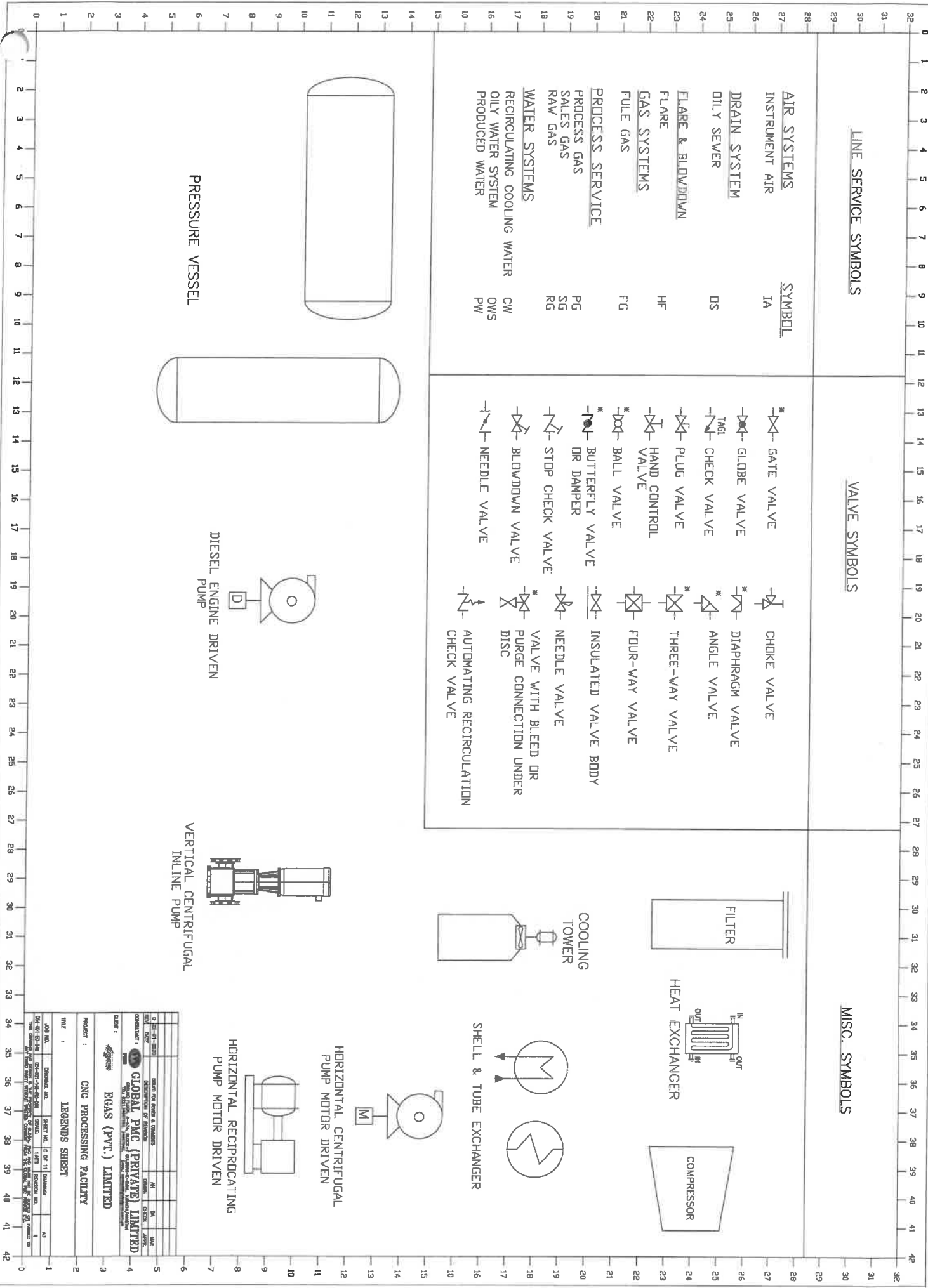
HORIZONTAL RECIPROCATING PUMP MOTOR DRIVEN



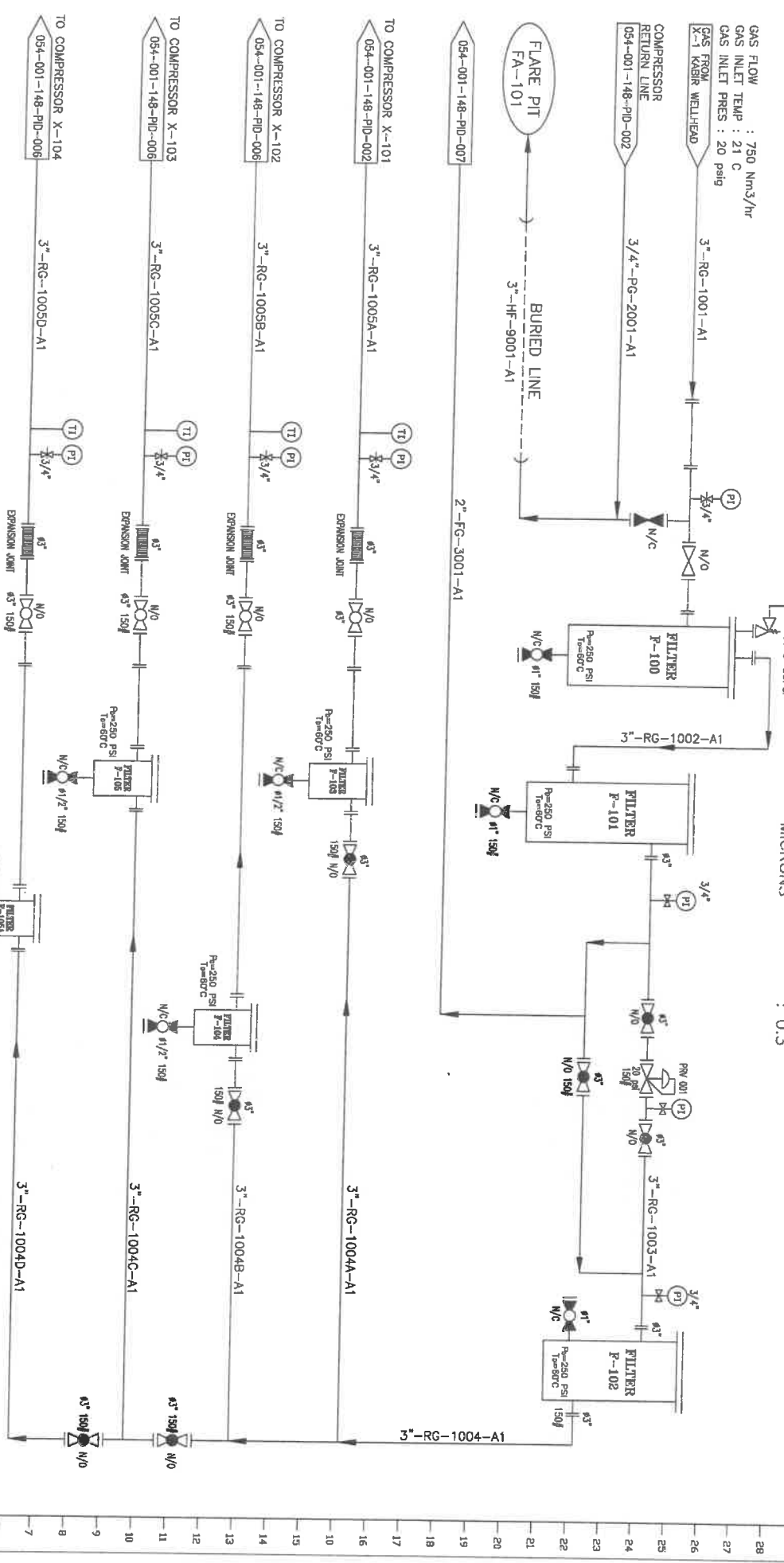
HORIZONTAL CENTRIFUGAL PUMP MOTOR DRIVEN



NO.	DESCRIPTION	DATE	BY	CHKD.	APPD.
0	ISSUED FOR REVIEW & COMMENTS				
1	REVISED				
2	GLOBAL P&C (PRIVATE) LIMITED				
3	EGAS (PVT.) LIMITED				
4	CNG PROCESSING FACILITY				
5	LEGENDS SHEET				



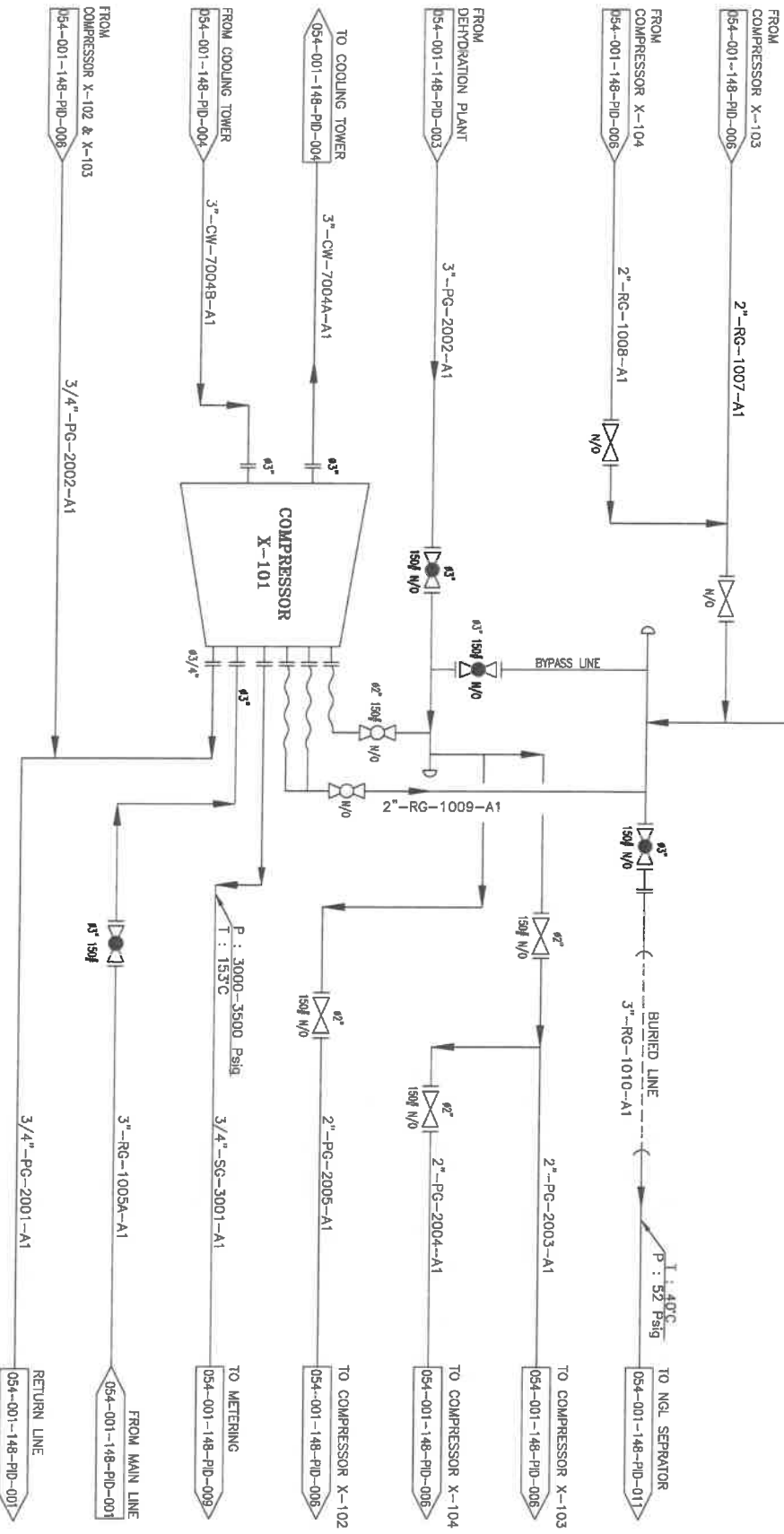
TYPE	HEIGHT	DIA	MICRONS
FILTER (F-100)	: CARTRIDGE	: 18"	: 18"
FILTER (F-101 & F-102)	: CARTRIDGE	: 5"	: 14"
FILTER (F-103, F-104, F-105 & F-105A)	: CARTRIDGE	: 3.5"	: 12"
			: 0.5
			: 0.3



AS BUILT

PROJECT :	CNG PROCESSING FACILITY
TITLE :	GAS INLET FILTERS
CLIENT :	EGAS (PVT.) LIMITED
CONSULTANT :	GLOBAL PMC (PRIVATE) LIMITED
DATE :	01/22/2014
BY :	SEED FOR REVIEW & COMMENTS
CHECKED BY :	ENGINEER
APPROVED BY :	MANAGER
SCALE :	AS SHOWN
PROJECT NO. :	01-001-148-PID-002
SHEET NO. :	1 OF 11
DATE :	14/03/2014
REVISION NO. :	1
REVISION :	AS SHOWN
DATE :	14/03/2014
BY :	SEED FOR REVIEW & COMMENTS
CHECKED BY :	ENGINEER
APPROVED BY :	MANAGER

COMPRESSOR PACKAGE (X-101)
REFER TO NOTE-1



- NOTES:**
- REFER TO VENDOR P&ID FOR DETAILS OF COMPRESSOR PACKAGE BD00000469-0

COMPRESSOR PACKAGE	
MODEL	: SW160F1-EM
RPM	: 1000
CAPACITY	: 750 Nm ³ /HR
BRAKE POWER	: 160 KW
MIN. INLET PRESSURE	: 2 PSIG
MAX. DELIVERY PRESSURE	: 250 BARG

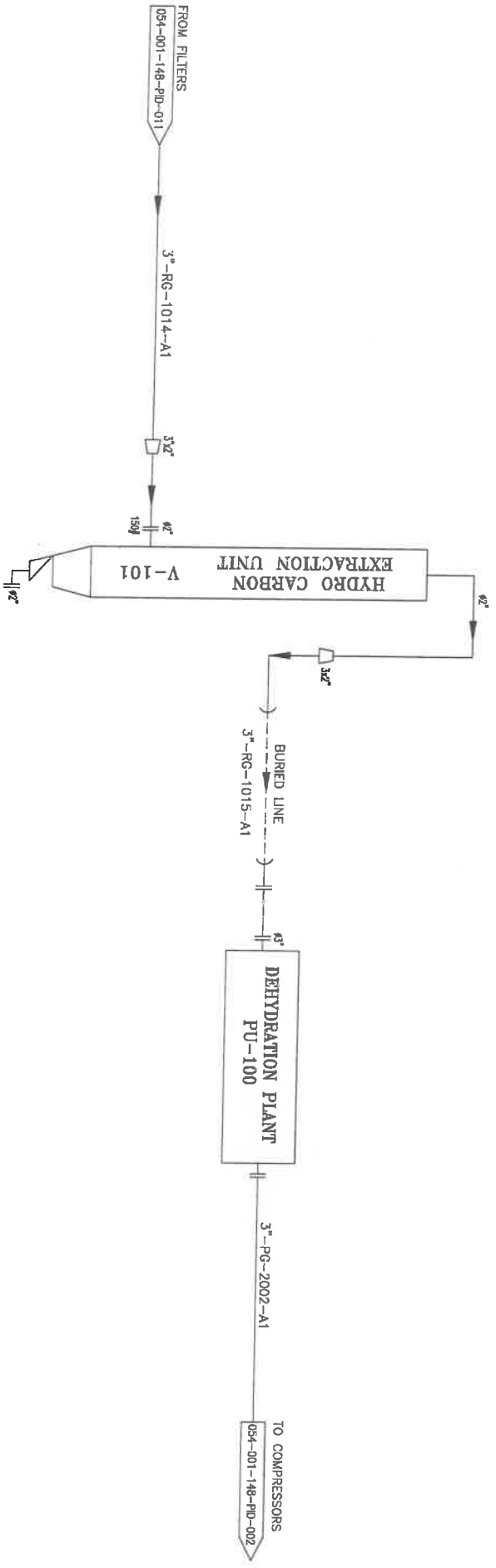
AS BUILT

DATE	BY	CHKD	APP'D
02-11-2020	AS	AS	AS
ENGINEER: [Signature]			
CHECKED: [Signature]			
DRAWN: [Signature]			
PROJECT: ONG PROCESSING FACILITY			
PRODUCT: COMPRESSOR (X-101)			
TITLE: COMPRESSOR (X-101)			
SHEET NO. 3 OF 11			
SCALE: AS SHOWN			
REVISIONS:			
NO.	DESCRIPTION	DATE	BY
01	ISSUED FOR REVIEW & COMMENTS		AS
02	REVISIONS & REVISED		AS
CONSULTANT: GLOBAL PNC (PRIVATE) LIMITED			
CLIENT: BGAS (PVT.) LIMITED			

HYDROCARBON EXT. UNIT (V-101)
 HEIGHT : 20'
 DIA : 12"
 MICRONS : 0.5

DEHYDRATION PLANT (PU-100)
 REFER TO NOTE-1

- NOTES:**
- FOR DETAILS OF DEHYDRATION PACKAGE REFER TO VENDOR P&ID NO.Y700972



AS BUILT

0	054-01-D-048	02-21-2020	GLOBAL P&ID	AS
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3	054-01-D-048	02-21-2020	GLOBAL P&ID	AS
4	054-01-D-048	02-21-2020	GLOBAL P&ID	AS
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41	054-01-D-048	02-21-2020	GLOBAL P&ID	AS
42	054-01-D-048	02-21-2020	GLOBAL P&ID	AS

GLOBAL PMG (PRIVATE) LIMITED
 CLIENT : **EGAS (PVT.) LIMITED**

PROJECT : **CNG PROCESSING FACILITY**
 TITLE : **PIPING & INSTRUMENTATION DIAGRAM**

DATE : 02-21-2020
 DRAWN BY : [Signature]
 CHECKED BY : [Signature]
 APPROVED BY : [Signature]

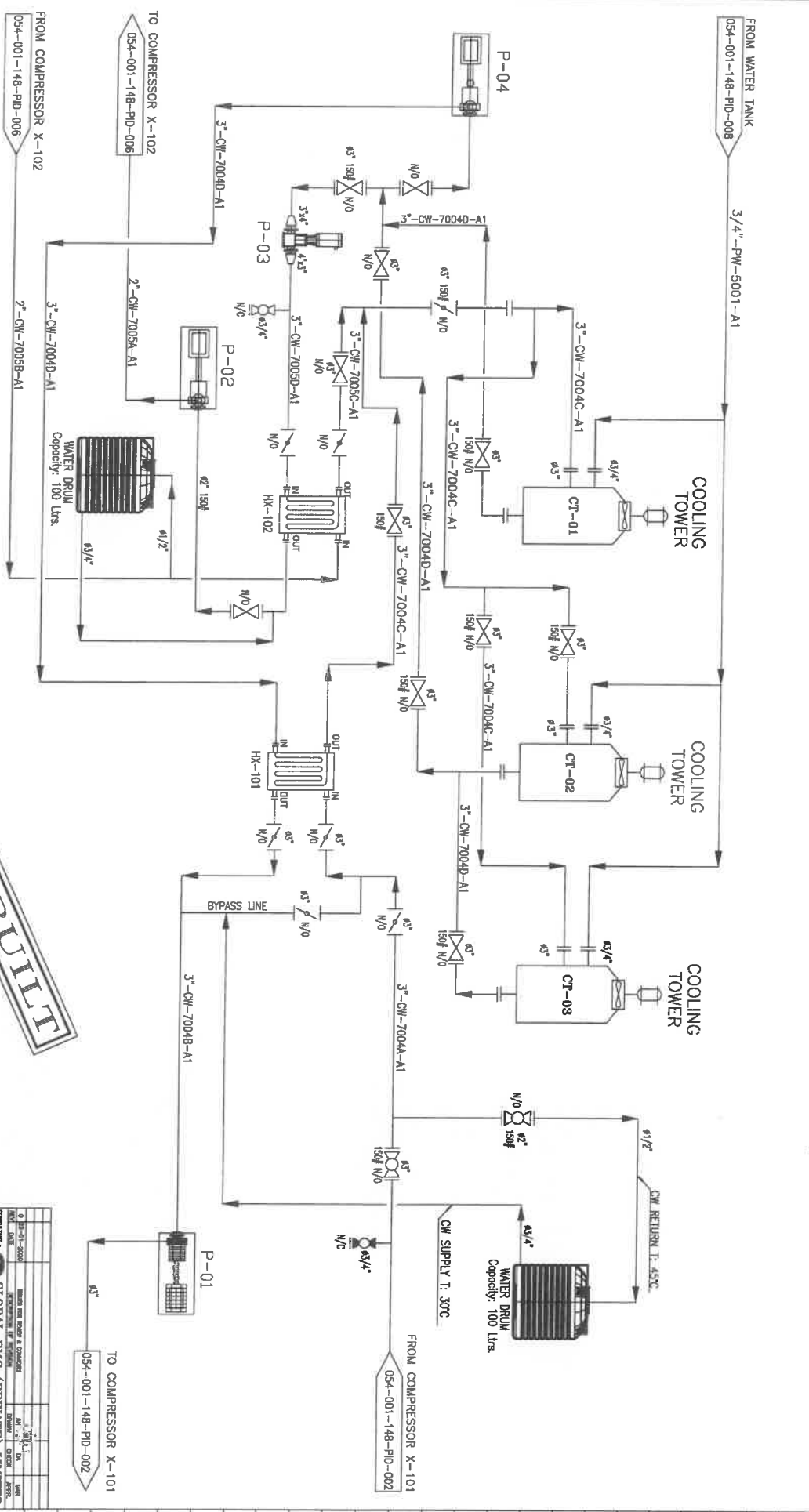
25

PUMPS (P-01, P-02 & P-04)
 SERVICE : COMPRESSOR CIRCULATING
 POWER : 5.0 KW

HEAT EXCHANGER (HX-101 & HX-102)
 TYPE : PLATE & FRAME
 CAPACITY : 22 LITRES
 TEST PRESSURE : 7.5 BAR

COOLING TOWER (CT-01 & CT-02)
 CAPACITY : 5000 KCAL/HR

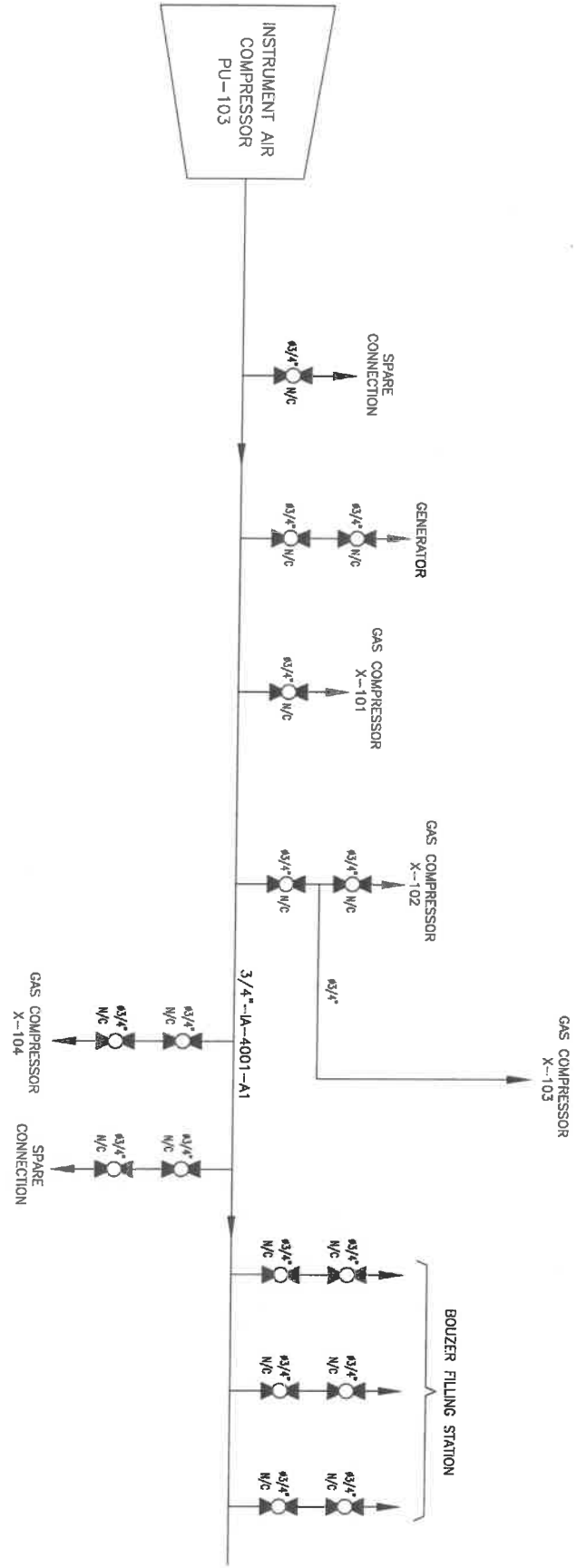
PUMPS (P-01, P-02 & P-04)
 SERVICE : COOLING WATER CIRCULATION
 POWER : 7.5 KW



AS BUILT

PROJECT :	CNG PROCESSING FACILITY
TITLE :	PIPING & INSTRUMENTATION DIAGRAM
DATE :	EGAS (PVT.) LIMITED
DESIGNED BY :	GLOBAL PMC (PRIVATE) LIMITED
CHECKED BY :	GLOBAL PMC (PRIVATE) LIMITED
APPROVED BY :	GLOBAL PMC (PRIVATE) LIMITED
SCALE :	AS SHOWN
NO. :	054-001-148-PID-002
REV. NO. :	01
REV. DATE :	01/11/2008
REV. DESCRIPTION :	ISSUED FOR REVIEW & COMMENT
DATE :	01/11/2008
BY :	GLOBAL PMC (PRIVATE) LIMITED
CHECKED BY :	GLOBAL PMC (PRIVATE) LIMITED
APPROVED BY :	GLOBAL PMC (PRIVATE) LIMITED
SCALE :	AS SHOWN
NO. :	054-001-148-PID-002
REV. NO. :	01
REV. DATE :	01/11/2008
REV. DESCRIPTION :	ISSUED FOR REVIEW & COMMENT
DATE :	01/11/2008
BY :	GLOBAL PMC (PRIVATE) LIMITED
CHECKED BY :	GLOBAL PMC (PRIVATE) LIMITED
APPROVED BY :	GLOBAL PMC (PRIVATE) LIMITED

INSTRUMENT AIR COMPRESSOR (PU-103)
 CAPACITY : 500 LITRES
 PRESSURE : 7.5 BAR
 RPM : 1100
 RATED POWER : 7.5 KWATTS

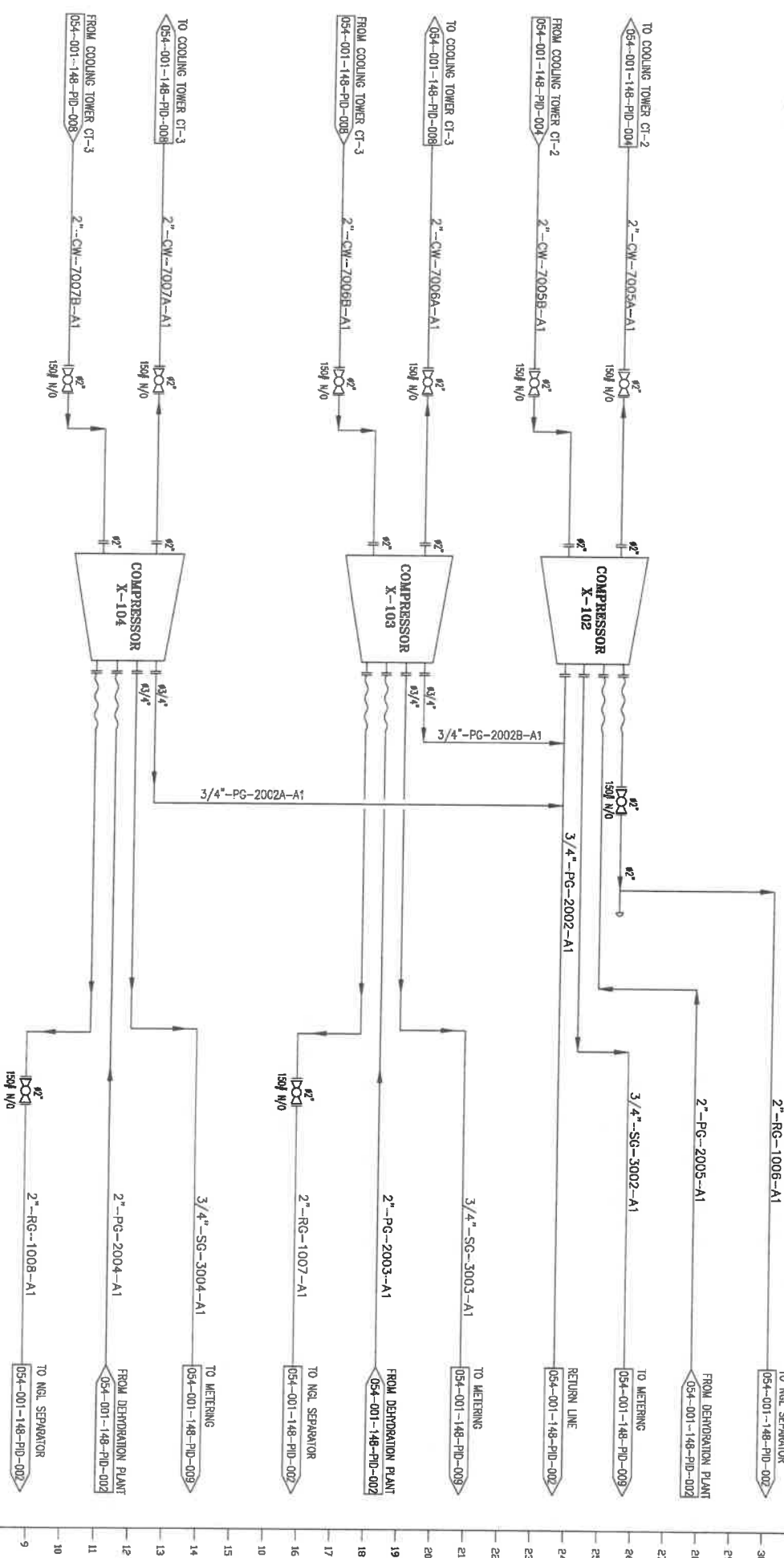


AS BUILT

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
PROJECT : CNG PROCESSING FACILITY PIPING & INSTRUMENTATION DIAGRAM		CLIENT : EGAS (PVT.) LIMITED		CONTRACTOR : GLOBAL PMC (PRIVATE) LIMITED THE GLOBAL PROJECT MANAGEMENT COMPANY 100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000																																						

COMPRESSOR PACKAGE (X-102, X-103 & X-104)

REFER TO NOTE-1



COMPRESSOR PACKAGE

MODEL	: SW160F1-EM
RPM	: 1000
CAPACITY	: 750 Nm ³ /Hr
BRAKE POWER	: 160 KW
MIN. INLET PRESSURE	: 2 PSIG
MAX. INLET PRESSURE	: 20 PSIG
MAX. DELIVERY PRESSURE	: 250 BARG

- NOTES:**
- REFER TO VENDOR P&ID FOR DETAILS OF COMPRESSOR PACKAGE BD000000402-0.

AS BUILT

PROJECT :	CNG PROCESSING FACILITY
TITLE :	PIPING & INSTRUMENTATION DIAGRAM
DATE :	18/09/2008
DESIGNED BY :	AS
CHECKED BY :	AS
APPROVED BY :	AS
GLOBAL P&I :	AS
GLOBAL P&I (PRIVATE) LIMITED	AS
EGAS (PVT.) LIMITED	AS

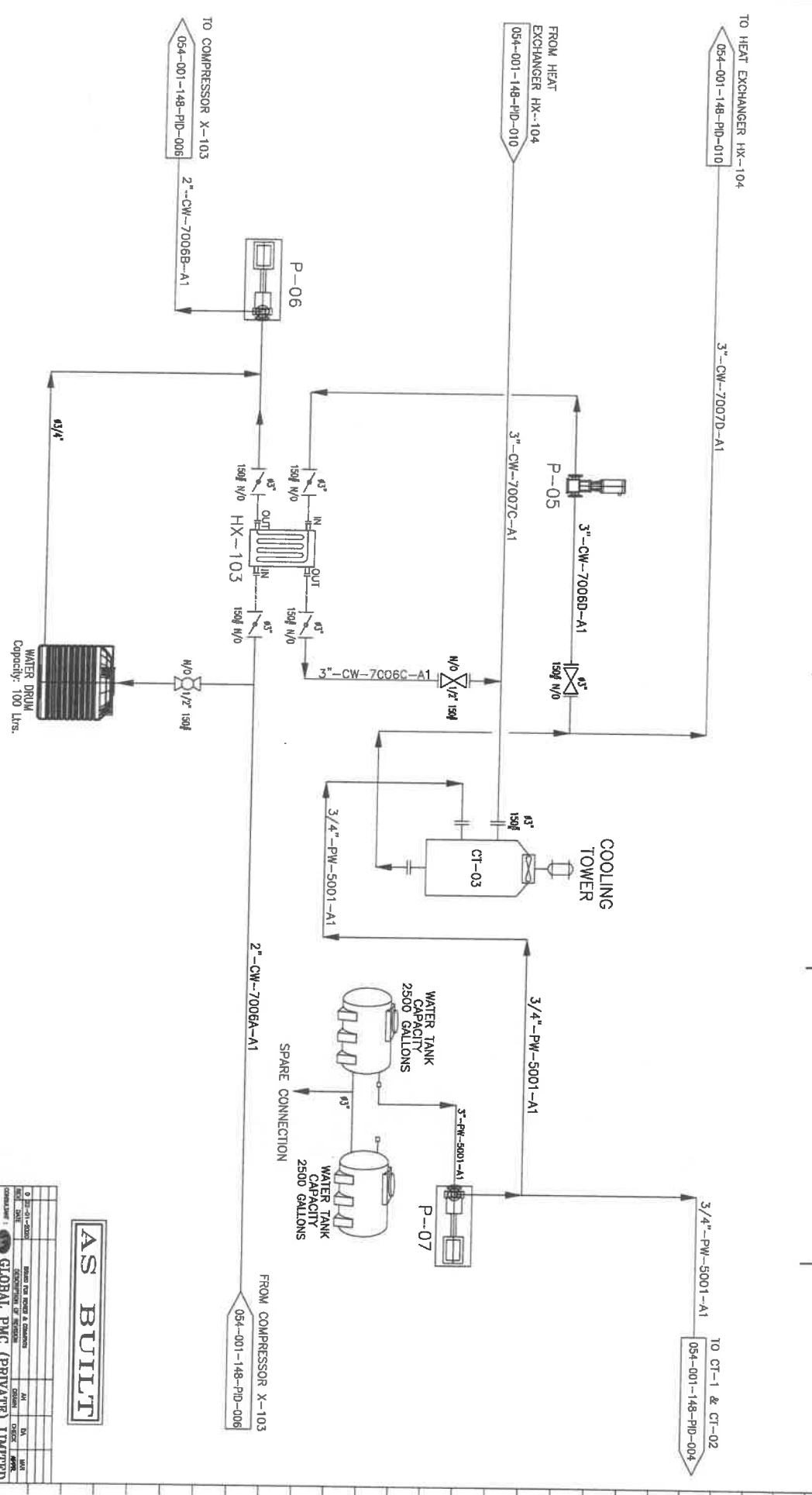
PUMPS (P-05)
 SERVICE : COOLING WATER
 POWER : 7.5 KW

HEAT EXCHANGER (HX-101 & HX-102)
 TYPE : PLATE & FRAME
 TEST PRESSURE : 7.5 BAR
 CAPACITY : 22 LITRES

COOLING TOWER (CT-03)
 CAPACITY : 5000 KCAL/HR

PUMPS (P-06)
 SERVICE : COMP. CIRCULATION
 POWER : 5.0 KW

PUMPS (P-07)
 SERVICE : SUPPLY WATER
 POWER : 5.0 KW



AS BUILT

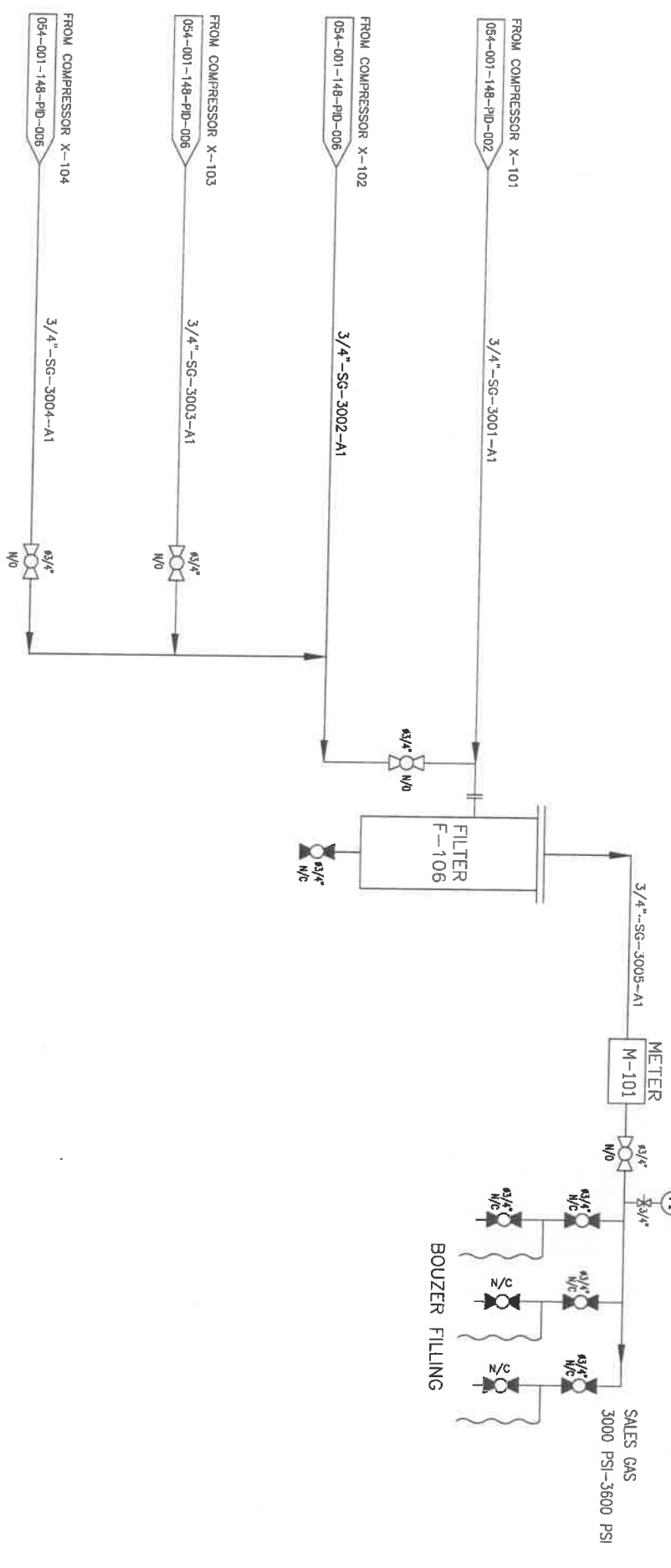
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PROJECT :		ONG PROCESSING FACILITY		PIPING & INSTRUMENTATION		DIAGRAM		CLIENT :		EGAS (PVT.) LIMITED		DRAWING NO. :		054-001-148-PID-006		REV. NO. :		01		DATE :		15/08/2006		SCALE :		AS SHOWN		SHEET NO. :		11		TOTAL SHEETS :		11		APPROVED :		[Signature]		DATE :		15/08/2006	
DRAWING NO. :		054-001-148-PID-006		SHEET NO. :		11		TOTAL SHEETS :		11		APPROVED :		[Signature]		DATE :		15/08/2006		SCALE :		AS SHOWN		SHEET NO. :		11		TOTAL SHEETS :		11		APPROVED :		[Signature]		DATE :		15/08/2006					
PROJECT :		ONG PROCESSING FACILITY		PIPING & INSTRUMENTATION		DIAGRAM		CLIENT :		EGAS (PVT.) LIMITED		DRAWING NO. :		054-001-148-PID-006		REV. NO. :		01		DATE :		15/08/2006		SCALE :		AS SHOWN		SHEET NO. :		11		TOTAL SHEETS :		11		APPROVED :		[Signature]		DATE :		15/08/2006	

METERING (M-101)

FLUID TO MEASURE : CNG
 MIN. FLOW : 0.3 Kg/min
 MAX. FLOW : 15 Kg/min
 OPERATING TEMP. : ~20 to 50°C
 OPERATING PRESSURE : 250 BARG
 POWER VOLTAGE & FREQ. : 220V / 50-60 Hz

FILTER (F-106)

TYPE : CARTRIDGE
 HEIGHT : 3.5"
 DIA : 12"
 MICRONS : 0.5



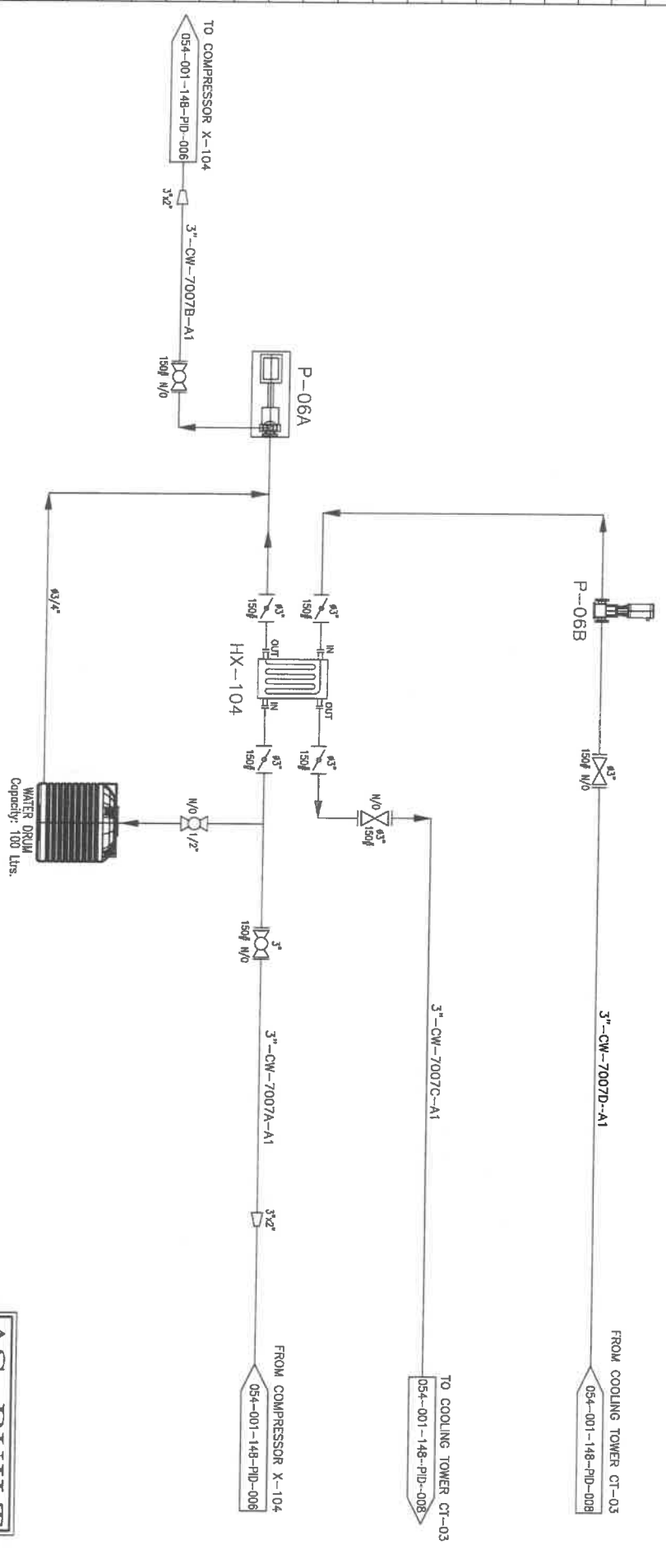
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PROJECT :		CNG PROCESSING FACILITY		DRAWN BY :		EGAS (PVT.) LIMITED		CHECKED BY :		GLOBAL PMC (PRIVATE) LIMITED		DATE :		05/01/2018		SCALE :		AS BUILT		SHEET NO. :		1		TOTAL SHEETS :		1		APPROVED BY :		[Signature]		DATE :		05/01/2018		PROJECT NO. :		CNG-001-148-PID-006		SHEET NO. :		1	
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TITLE :		PIPING & INSTRUMENTATION DIAGRAM		PROJECT :		CNG PROCESSING FACILITY		DRAWN BY :		EGAS (PVT.) LIMITED		CHECKED BY :		GLOBAL PMC (PRIVATE) LIMITED		DATE :		05/01/2018		SCALE :		AS BUILT		SHEET NO. :		1		APPROVED BY :		[Signature]		DATE :		05/01/2018		PROJECT NO. :		CNG-001-148-PID-006		SHEET NO. :		1	

PUMPS (P-06A)
 SERVICE : COOLING WATER
 POWER : 7.5 KW

HEAT EXCHANGER (HX-101 & HX-102)
 TYPE : PLATE & FRAME
 TEST PRESSURE : 7.5 BAR
 CAPACITY : 22 LITRES

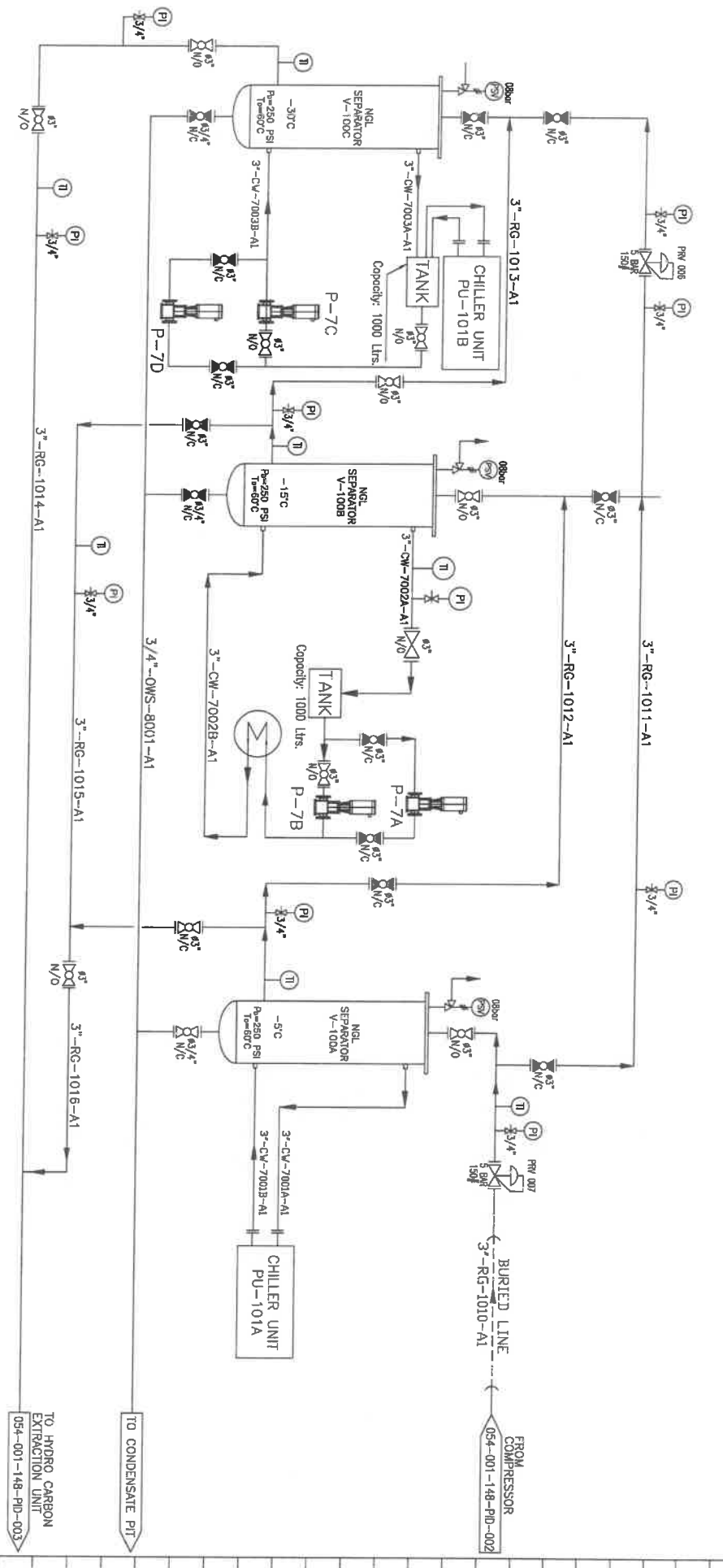
PUMPS (P-06B)
 SERVICE : SUPPLY WATER
 POWER : 5.0 KW



AS BUILT

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
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NGL SEPARATOR (V-100C)	NGL SEPARATOR (V-100B)	NGL SEPARATOR (V-100A)	PUMPS (P-7A, P-7B, P-7C & P-7D)
HEIGHT : 10'	HEIGHT : 10'	HEIGHT : 5.5'	SERVICE : COOLING WATER CIRCULATION
DIA : 26"	DIA : 21.5"	DIA : 14"	POWER : 5.5 KW
MICRONS : 0.5	MICRONS : 0.5	MICRONS : 0.5	



HEAT EXCHANGER

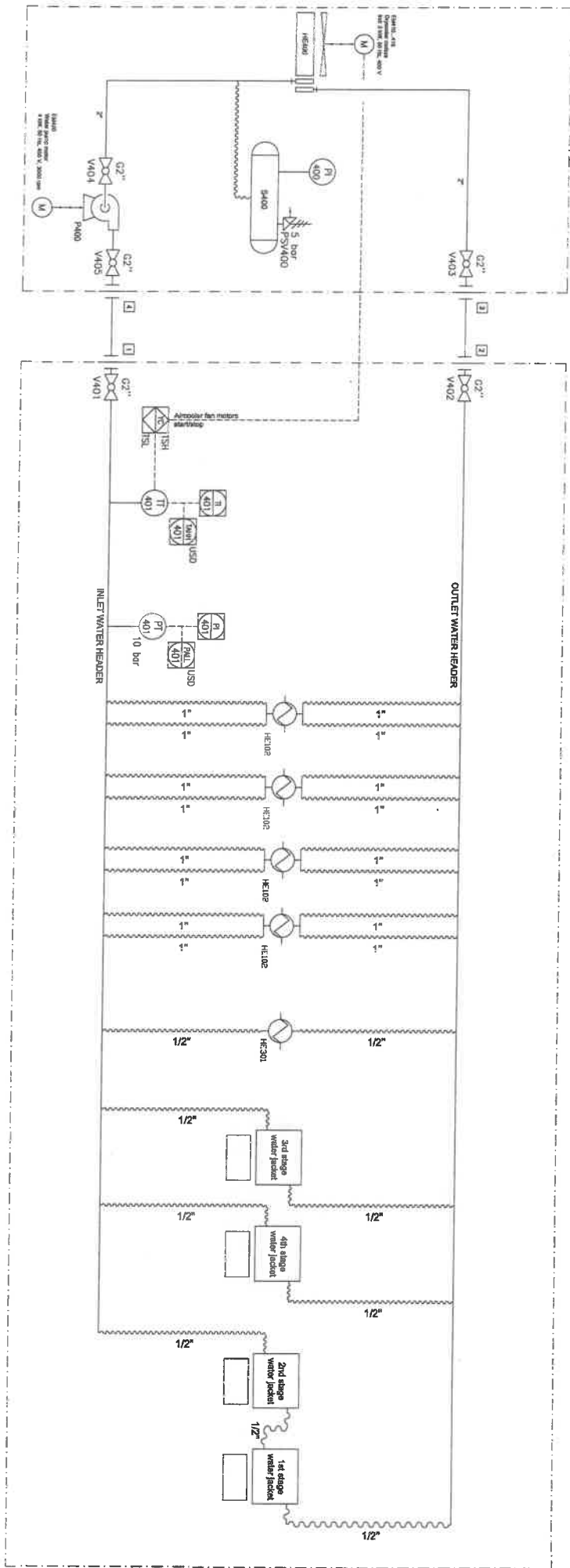
SERVICE	RAW GAS	WATER
TEMPERATURE	120-44.5°C	30°C
INHOLD VOLUME	200 LTR.	180 LTR.
WORKING/TEST PRESSURE	0 / 0 BARG	84 / 6 BARG
CAPACITY	108 KW	

CHILLER UNIT (PU-101 A/B)

MAIN CB SIZE	: 110 (DESIGN LOAD)
MAIN CB SIZE	: 175 (FULL LOAD)
ELECTRICAL RATING	: 400 VAC 3PH 50HZ
NO. OF COMPRESSOR	: 2 (DESIGN LOAD)
NO. OF COMPRESSOR	: 2 (FULL LOAD)
MINIMUM CIRCUIT IMPAIRS	: 78 (DESIGN LOAD)
MINIMUM CIRCUIT IMPAIRS	: 135 (DESIGN LOAD)

AS BUILT

PROJECT :	CNG PROCESSING FACILITY
TITLE :	PIPING & INSTRUMENTATION DIAGRAM
DATE :	
DESIGNED BY :	
CHECKED BY :	
APPROVED BY :	
SCALE :	
PROJECT NO. :	
DRAWING NO. :	
REVISIONS :	



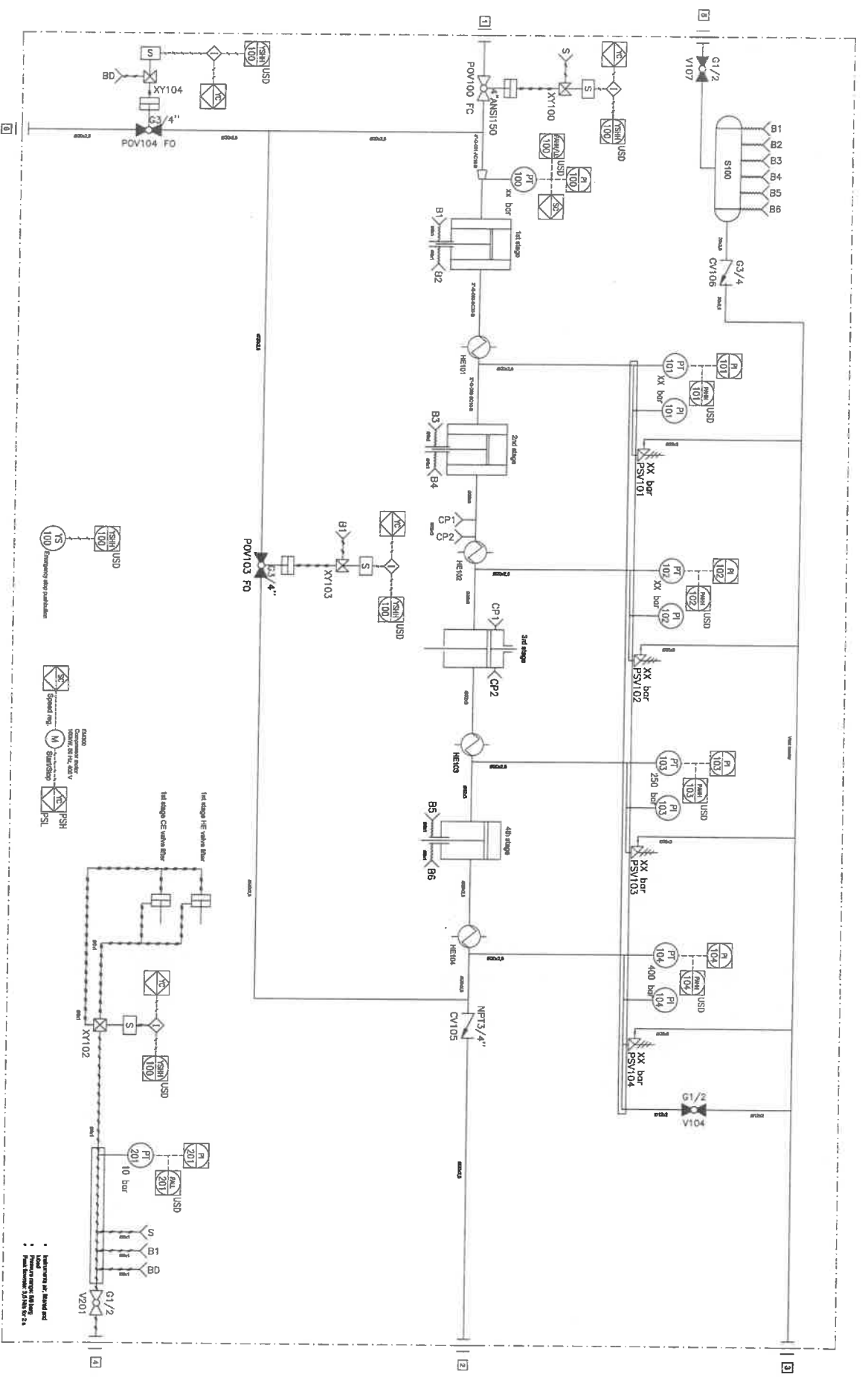
1. **PHYSICALLY INDICATE:**
 1. **UPPER** valve in column shall (1875) A, A11 Q, grade 8, or equivalent, size to be determined by design engineer.
 2. **LOWER** valve in column shall (1875) A, A11 Q, grade 8, or equivalent, size to be determined by design engineer.
 3. **FLANGE** shall be (1875) A, A11 Q, grade 8, or equivalent, size to be determined by design engineer.
 4. **FLANGE** shall be (1875) A, A11 Q, grade 8, or equivalent, size to be determined by design engineer.

POSITION	DIMENSION	DESCRIPTION
1	G2-1/2	Cooling water inlet line
2	G2-1/2	Cooling water inlet outlet
3	G2-1/2	Cooling water outlet inlet
4	G2-1/2	Cooling water outlet outlet

4272 Regio E - Italy
 Tel. 09522525175
 Fax 09522525172

PAID cooling (14/03/2003) MW

DATE: 14/03/2003
 DRAWN: [Name]
 CHECKED: [Name]
 APPROVED: [Name]



- Dimensione dei cilindri e dei solenoidi
- Dimensione dei tubi
- Dimensione dei raccordi
- Dimensione dei supporti
- Dimensione dei cavi
- Dimensione dei fili
- Dimensione dei nastri
- Dimensione dei pneumatici
- Dimensione dei pneumatici
- Dimensione dei pneumatici
- Dimensione dei pneumatici

- Preparazione pneumatica:**
1. Verificare il tipo di compressore e il tipo di motore (elettrico o a gas).
 2. Verificare il tipo di olio lubrificante e il tipo di olio (olio lubrificante).
 3. Verificare il tipo di filtro e il tipo di filtro (filtro a carbone attivo).
 4. Verificare il tipo di regolatore di pressione e il tipo di regolatore (regolatore).
 5. Verificare il tipo di valvola di intercettazione e il tipo di valvola (valvola).
 6. Verificare il tipo di valvola di intercettazione e il tipo di valvola (valvola).
 7. Verificare il tipo di valvola di intercettazione e il tipo di valvola (valvola).
 8. Verificare il tipo di valvola di intercettazione e il tipo di valvola (valvola).
 9. Verificare il tipo di valvola di intercettazione e il tipo di valvola (valvola).
 10. Verificare il tipo di valvola di intercettazione e il tipo di valvola (valvola).

POS.	DIMENSIONE	DESCRIZIONE	PRESSURE
1	4" (101.6 mm)	Gas inlet	2157 Bar
2	4" (101.6 mm)	Gas outlet	220 Bar
3	G1/2" female	Instrument air	4.3 Bar
4	G1/2" female	Drip pot tank drainage	Automatic
5	G3/4" female	Blowdown connection	Bar
6			
7			
8			

CONNECTIONS

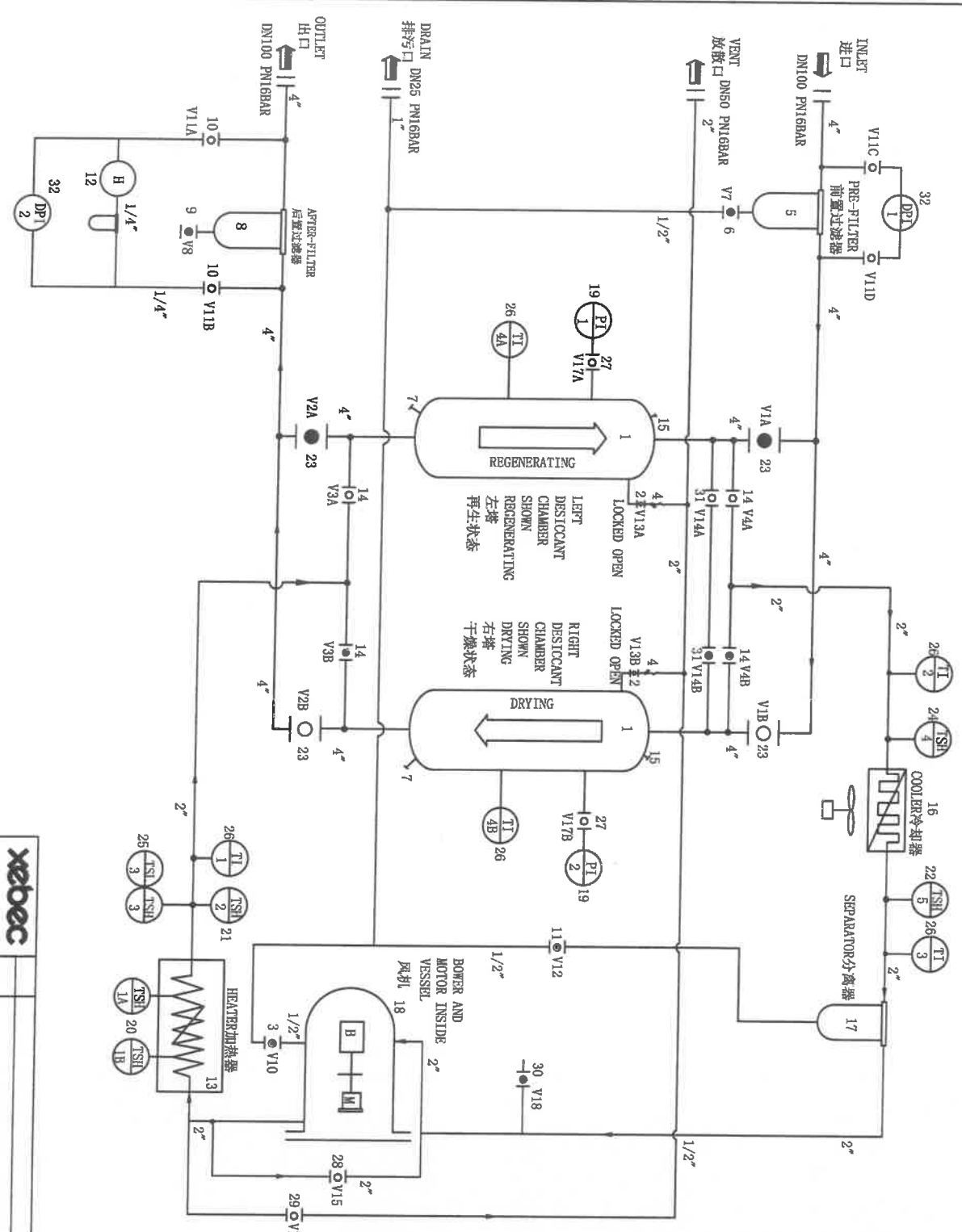
1. Inlet
2. Outlet
3. Instrument air
4. Drip pot tank drainage
5. Blowdown connection
6. Bar

COMPONENTS

1. Solenoid
2. Valve
3. Pressure switch
4. Filter
5. Regulator
6. Interceptor
7. Drain
8. Air

NOTES

1. Dimensione dei cilindri e dei solenoidi
2. Dimensione dei tubi
3. Dimensione dei raccordi
4. Dimensione dei supporti
5. Dimensione dei cavi
6. Dimensione dei fili
7. Dimensione dei nastri
8. Dimensione dei pneumatici



- LEGEND 图例:
1. DESICCANT CHAMBER 干燥塔
 2. RELIEF VALVE ISOLATION VALVE 安全阀隔离阀
 3. BLOWER HOUSING DRAIN VALVE 风机排污阀
 4. RELIEF VALVE 安全阀
 5. PRE-FILTER 前置过滤器
 6. PRE-FILTER DRAIN VALVE 前置过滤器排污阀
 7. DESICCANT DRAIN PORT 干燥剂排出口
 8. AFTER-FILTER VENT VALVE 后置过滤器排污阀
 9. AFTER-FILTER DRAIN VALVE 后置过滤器排污阀
 10. SEPARATOR DRAIN VALVE 分离器排污阀
 11. SEPARATOR DRAIN VALVE 露点仪器隔离阀
 12. AUTODEW HYGROMETER HEATER 加热器
 13. REGENERATION HEATER 加热器
 14. REGENERATION INLET/OUTLET ISOLATION VALVE 再生进出口隔离阀
 15. DESICCANT FILL PORT 干燥剂装填口
 16. REGENERATION COOLER 冷却器
 17. REGENERATION SEPARATOR 分离器
 18. REGENERATION BLOWER & MOTOR HOUSING 风机
 19. PRESSURE GAUGE 压力表
 20. HEATER SHEATH OVER-TEMP. SWITCH 加热器高温控制
 21. HEATER OUTLET OVER-TEMP. SWITCH 加热器出口高温控制
 22. COOLER OUTLET OVER-TEMP. SWITCH 冷却器出口高温控制
 23. DRYER INLET/OUTLET ISOLATION VALVE 干燥剂进出口隔离阀
 24. COOLER INLET TEMPERATURE SWITCH 冷却器进口温度控制
 25. HEATER OUTLET TEMPERATURE CONTROL 加热器出口温度控制
 26. TEMPERATURE METER 温度计
 27. PRESSURE GAUGE ISOLATION VALVE 压力表隔离阀
 28. BYPASS VALVE 旁通阀
 29. MANUAL VENT VALVE 手动放散阀
 30. CONDENSATION DRAIN VALVE 冷凝物排液阀
 31. TOWER PRESSURE EQUALIZING VALVE 塔体压力平衡阀
 32. DIFFERENTIAL PRESSURE INDICATOR 压差指示计

xebec

790 Boul. INDUSTRIE, BILMONT
 QUEBEC, J1C 3Y4 (CANADA)
 Tel.: (468) 979-8700
 Fax: (468) 979-7888

WE ACCEPT THE LIABILITY OF THE COMPANY OF THE CONTRACTOR IN THE EVENT OF A DEFECTIVE WORK OR IN THE EVENT OF A DELAY IN THE DELIVERY OF THE EQUIPMENT TO THE CLIENT TO REMOVAL.

REV.	DESCRIPTION	DATE	DSS.	CHK.	APP.	SCALE	PAGE
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TITLE: STR36NGX-4D-AUTODEW (230)

P & ID

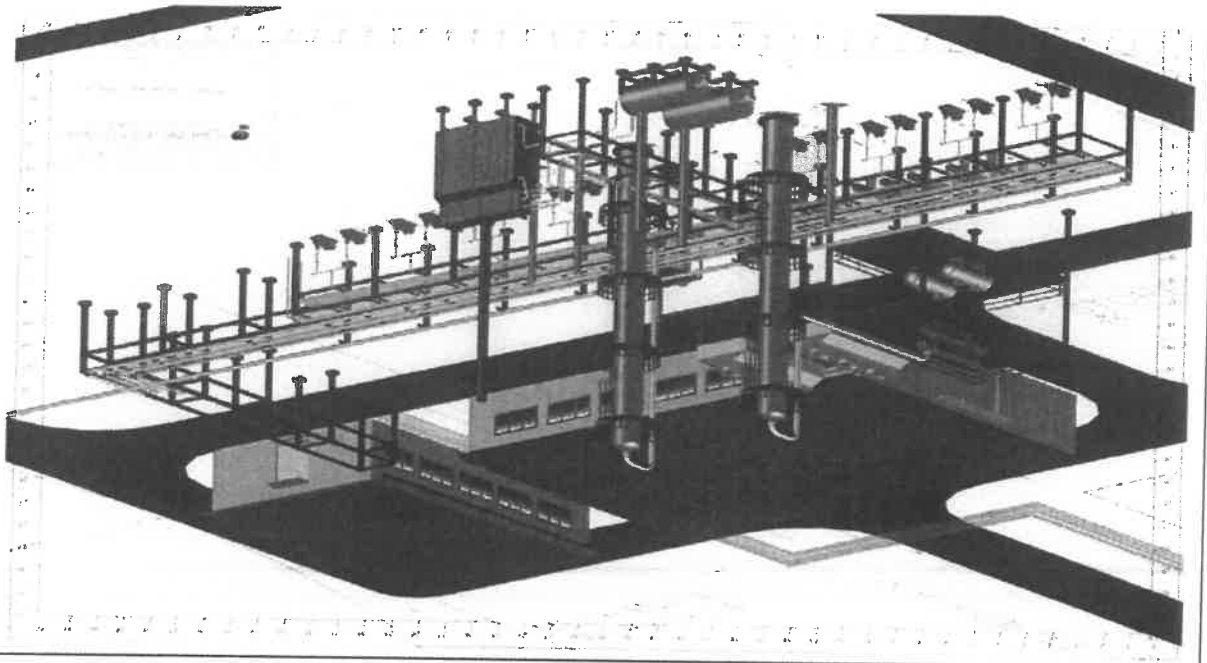
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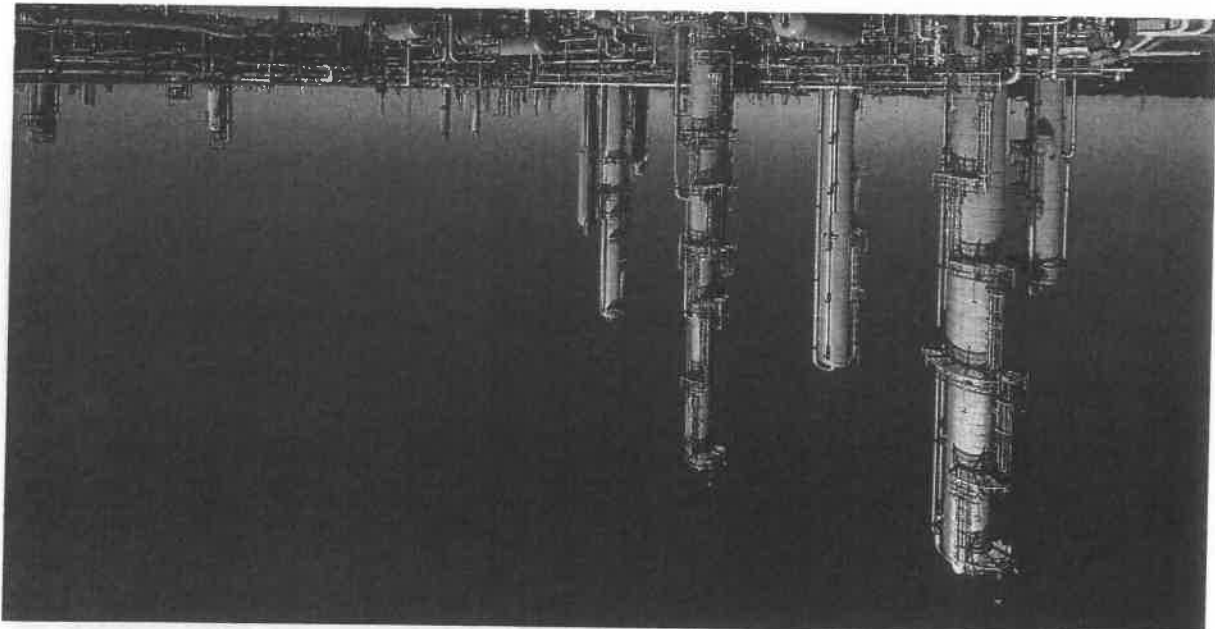
Project Office:
Global PMC (Private) Limited
Ground Floor, A - 474, Block 1,
Gulshan-e-Iqbal,
Karachi-75300, Pakistan.

Telephone No. 9221-34987960, 34987962,
Email: contact@globalpmc.com.pk
Web: www.globalpmc.com.pk

Company Profile



The Project Management Consultants



Global PMC (Private) Limited



EGAS HEALTH, SAFETY & ENVIRONMENT POLICY

EGAS Pvt., Ltd. is committed to maintaining a safe and healthy working environment for the safety and health of our employees and other persons in the workplace.

Health and safety is everyone's business, and everyone is expected to share in our commitment to avoid all accidents and incidents which may cause personal injury, property damage or loss of any kind.

Every employee is expected to act safely at all times to ensure their own welfare and that of their fellow employees and others in the workplace.

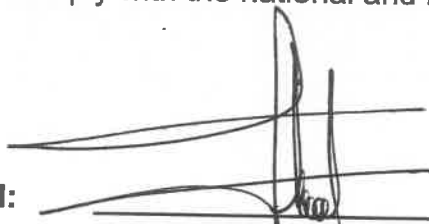
We will ensure the safety of employees by:

- Providing and maintaining a safe working environment
- Providing facilities for health and safety
- Ensuring all plant and equipment is safe
- Ensuring all employees (including any mobile workers), and other people at (or in the vicinity) of the place of work are not exposed to unmanaged or uncontrolled hazards
- Developing and implementing emergency and evacuation procedures

To achieve this, we will:

- Systematically identify and control all hazards in our workplace. Where there are significant hazards, we will take all practicable steps to eliminate, isolate and or minimize these hazards to prevent any injury or damage.
- Inform all employees of these hazards and the hazard controls.
- Ensure all employees are properly trained and supervised.
- Inform all employees of emergency and evacuation procedures.
- Record all incidents and accidents in our workplace, and take all practicable steps to prevent and communicate lessons learnt with the management and the employees.
- Carry out planned self-inspections to monitor health and safety issues.
- Comply with the national and international HSE workplace standards.

Signed:



Chief Executive Officer



Date:

19/06/2020

POLICY AND ORGANIZATIONAL STATEMENTS

FIRE SAFETY MANAGEMENT

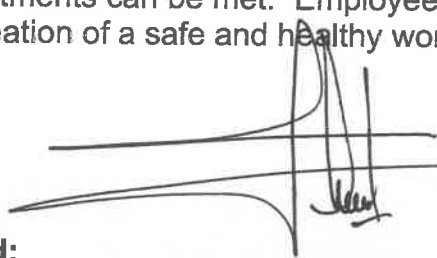
STATEMENT OF INTENT

EGAS believes that ensuring the health and safety of staff, visitors, service users and all relevant persons is essential to our success.

We are committed to:

1. Preventing accidents and work-related ill health.
2. Compliance with statutory requirements as a minimum.
3. Assessing and controlling the risks that arise from our work activities.
4. Providing a safe and healthy working and learning environment.
5. Ensuring safe working methods and providing safe working equipment.
6. Providing effective information, instruction and training.
7. Consulting with employees and their representatives on health and safety matters.
8. Monitoring and reviewing our systems and prevention measures to ensure their effectiveness.
9. Setting targets and objectives to develop a culture of continuous improvement.
10. Ensuring adequate welfare facilities exist throughout the department.
11. Ensuring adequate resources are made available for health and safety issues, so far as is reasonably practicable.

A Fire Safety Management System will be created to ensure the above commitments can be met. Employees throughout the department must play their part in the creation of a safe and healthy working environment for all.




Signed:

Chief Executive Officer

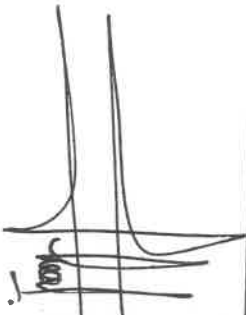
Date:

19/06/2020

EGAS RESPONSE ON HAZOP STUDY		Site: Egas KABIR X-1	Date: 04-04-2020	
S.No.	Observations	Egas Actions	Status	Target Dates
NODE 1				
1	Mark the normal position of manual valves on P&IDs as NO/NC (Normally open/Normally closed) and provide signage on manual valves at site accordingly.	Marked normal position of all the valves in P&IDs as NO/NC (Normally open / Normally closed). Provided tags on manual valves at site accordingly.	Closed	Completed
2	Evaluate the relieving capacity of PSV on filters and ensure that PSVs are adequate for blocked discharge.	Hired SSPL (third party for inspection and calibration of instruments and equipment).	Closed	Completed
3	PSVs are not shown in P&IDs, as per site pictures PSVs are installed on filters, update P&IDs.	PSVs installed on filters are shown in P&IDs, updated all the P&IDs.	Closed	Completed
4	4- Develop and implement procedure for lifting over process equipment, lifting plans and protocols/work permit system, TRA (Task Risk Assessment) for all lifting activities in line with OSHA guidelines/industry best practices.	Developed and implemented procedure for lifting over process equipment. Devised lifting plan, work permit system and TRA (Task Risk Assessment) for all types of lifting activities in line with best industry standards and OSHA guidelines.	Closed	Completed
5	Develop Hazardous area classification drawing and confirm electric and electronic equipment within the classified area are rated accordingly.	Hazardous area is classified internally and all the electric and electronic equipment rated accordingly.	Closed	Completed
6	Provide ESD valve at battery Limit on Gas inlet line from Kabir X-1, ESD valve shall be actuated through ESD push button or confirmed gas or fire detection.	04 ESDs are provided at different spots in KABIR X-1 which are actuated through a ESD push button.	Closed	Completed
	Provide alternate escape door in control room towards safe exist away from process side for any emergency situations	Provided alternate escape door in control room towards safe exit in case of any emergency.	Closed	Completed



NODE 2			
8	Develop procedure for dehydration unit operation and show valve sequence on P&ID. Mark valve sequence for dehydration and regeneration on P&IDs in the procedure and also show on a chart in the field.	Developed operation procedure for dehydration unit. Marked valve sequence for dehydration / drying and regeneration on P&IDs and also displayed in the control room. P&ID and documented evidences are attached.	Closed
9	Mention PSV set pressure on P&IDs.	Mentioned PSVs set pressure on P&IDs. Evidences are attached.	Closed
10	Develop and implement protocol for PSVs bench test/calibration at regular intervals.	Developed and implemented protocol for PSVs calibration at regular interval.	Closed
11	Provide temperature indication with high temperature alarm on gas line downstream of NGL separator.	Temperature indication on gas line downstream of NGL separator is provided and alarm system is not needed as per CNG Rules 1992 in attended facilities.	Closed
12	Develop Hazardous area classification drawing and confirm electric and electronic equipment within the classified area are rated accordingly.	Hazardous area is classified internally and all the electric and electronic equipment rated accordingly.	Closed
NODE 3			
13	Provide ESD button near bowser filling area.	Provided ESD button near bowser filling area. Evidence is attached.	Closed
14	Update all P&IDs as built.	Updated all P&IDs as built. All the P&IDs are attached.	Closed
Reported and Prepared By:		Designation:	Signature:
Malik Hamid Ali Khan		HSE Manager	Malik Hamid




آئل اینڈ گیس
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Government of Pakistan

NOTICE OF PUBLIC COMMENTS

APPLICATION FOR GRANT OF LICENCE BY EGAS PRIVATE LIMITED FOR SALE OF FLARE GAS/NATURAL GAS (KABIR X-1 GAMBAT SOUTH BLOCK DISTRICT, SANGHAR, SINDH)

M/s EGAS Pvt. Limited, (the applicant) has applied under OGRA's Natural Gas (Licencing) Rules, 2002 for grant of license for Sale of Flare Gas/Natural Gas via virtual pipeline as per Federal Government Flare Gas Guidelines, 2016. M/s Pakistan Petroleum Limited (PPL) (Seller), the Lease Holder of Kabir X-1 Well (Gambat South Block) District, Sanghar, Sindh, is producing certain quantity of natural gas. The lease holder is selling gas to the third party (EGas) and the EGas will sale out the Flare Gas/ Natural Gas in compressed form to Industrial consumers and CNG Stations.

After completion of the requisite data / information by the applicant, the Authority has admitted the instant application for consideration.

All persons and parties who are likely to be affected by the grant of license are hereby notified to file objections, written comments or intervention requests addressed to Registrar OGRA, describing the manner in which such persons/parties shall be affected. The intervention request shall be filed alongwith fee of Rs.500/- (bank draft) and affidavit verifying the contents of communication within 14 days. Copies of the documents submitted by the applicant can be obtained on payment of prescribed charges of Rs.2/- per page from the office of Registrar or can be downloaded from OGRA's website.

For any information required from the applicant please contact:

Yasir Raza,
Chief Executive Officer,
Honda Centre 300 Peshawar Road Rawalpindi,
Telephone: 051-5125181-5, Fax: 051-5125186
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REGISTRAR
Oil and Gas Regulatory Authority
54-B, Fazal-e-Haq Road, Blue Area, Islamabad
Phone: 051-9244296, 051-9244090-98 (Ext-157), Fax: 051-9244042,
www.ogra.org.pk

PID(1) 3922/20

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Regulatory Authority
Government of Pakistan

اطلاع برائے عوامی رائے

ای گیس پرائیویٹ لمیٹڈ کی جانب سے لائسنس کے اجراء کی درخواست
برائے فروخت فلیمیر گیس اقدرتی گیس، (کمیر-1 X، گھمبٹ ساؤتھ بلاک، ضلع، ساگلہ، سندھ)

میسروائی گیس پرائیویٹ لمیٹڈ (درخواست گزار) نے اڈرا نیچل گیس (لائسنس) آرڈر نمبر 2002 کے تحت، قدرتی گیس کی فروخت کے لائسنس کے اجراء کے لیے درخواست جمع کرائی ہے جس میں قدرتی گیس پرائیویٹ لمیٹڈ، چنل بائبل لائن برطانیہ، نیڈرل گورنمنٹ فلیمیر گیس کا ہیڈ لائسنس 2016، فروخت کے اجازت نامہ کی استناد کی گئی ہے۔ M/s Pakistan Petroleum Limited (PPL) میسرز پاکستان پیٹرولیم لمیٹڈ (پی پی ایل)، جو کہ کمیر-1 X، گھمبٹ ساؤتھ بلاک، ضلع، ساگلہ، سندھ کی نیچر گولڈرے، کافی مقدار میں قدرتی گیس پیدا کر رہی ہے۔ نیز وہ فلیمیر گیس پائپ لائن (ای گیس) کے ذریعے فروخت کر رہی ہے اور ای گیس اس قدرتی گیس کو کھریڈر میں منتقلی سہولتوں اور ای پی سی پیشکشوں کو فروخت کرے گا۔ درخواست گزار کی جانب سے مطلوبہ پائپ لائنوں اور اسٹیشنوں کے اجراء کے لیے درخواست کو فوری طور پر غور کے لیے منظور کر لیا ہے۔

تمام فراہم کنندگان پائپ لائنوں اور اسٹیشنوں کے اجراء سے متاثر ہو سکتی ہیں ان سے گزارش ہے کہ وہ اڈرا کو مطلع کر سکیں کہ وہ اپنے اجراءات کو فوری اثرات اور مدد طلبی کی استناد 14 اعلان کے تحت جمع کرائیں۔ جس میں یہ وضاحت ہے کہ اس طرح کے سہولتوں اور اسٹیشنوں کا اثر ہو سکتی ہیں۔ مدد طلبی کی درخواست 500 روپے کی گیس (بیک لائٹ) اور اس کے پانچ منٹوں کے ساتھ درخواست کا متن درست ہے۔ درخواست گزار کی جانب سے جمع کرائی گئی دستاویزات کی منتقلی 27 جنوری 2021ء کو مکمل کی جائے گی۔ درخواست گزار سے حاصل کیے جانے والے تمام دستاویزات کے ساتھ ساتھ درخواست گزار کے پاس سے درخواست گزار کے پاس سے کسی بھی معلومات کے لیے ہمارے سربراہی رابطہ کیجئے۔

یاسر رضا

چیف ایگزیکٹو آفیسر

پتہ: سیٹلر 300، پٹا اور روڈ، راولپنڈی

فون: 051-5125181-5، فیکس: 051-5125186

www.ogas.com.pk

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PID/13922