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*Term Sheet*  
ESSAR Exploration  
and Production  
India Limited

11 March 2023

Final

## Term Sheet\*

This Term Sheet sets forth the key terms which shall form the basis for sale and purchase of Gas between the Seller and Buyer

Sl. No	Item	Details
1	Name of the Bidder (to be filled by the Bidder)	<p>This Agreement for the sale and purchase of Natural Gas is executed</p> <p>BETWEEN:</p> <p>ESSAR EXPLORATION AND PRODUCTION INDIA LIMITED (EEPIL), a company validly organised and existing under the Companies Act, 1956 or Companies Act, 2013, as the case may be, bearing CIN U99999TN1993PLC024958, with its registered office at 9th Floor, Essar House, 11, K.K. Marg, Mahalaxmi, Mumbai-400034 (hereinafter called "Seller" which expression shall include its successors or permitted assigns) of the one part.</p> <p>AND</p> <p>xxx, a company constituted under the Companies Act, 1956, bearing CIN [insert], having its registered office at xxx (hereinafter called "Buyer" which expression shall include its successors, legal representatives or permitted assigns) of the other part</p> <p>Whereas:</p> <p>Seller desires to supply Gas to Buyer and Buyer wishes to purchase Gas from Seller, in a commingled stream to the extent of agreed in the quantities and in accordance with the Gas Sales Agreement ('GSA').</p> <p>1) Buyer is in the business of xxx and desires to purchase Gas from Sellers at ex-dahej as Delivery Point for fulfilling its feedstock and fuel requirements.</p>
2	Start date	1 <sup>st</sup> April, 2023
3	Contract Term Duration (Duration of Gas offered)	1 year [01 <sup>st</sup> April 2023 to 31 <sup>st</sup> March 2024]
4	Daily Contract Quantity (DCQ)	0.317 MMSCMD per day GCV @ 9880 Kcal/sm <sup>3</sup> (12421 MMBTU/Day)
5	Total Contract Quantity	115.705 MMSCM per annum GCV @ 9880 Kcal/sm <sup>3</sup> (45,33,665 MMBTU/Year)
6	Gas Price **	The price payable by the buyer to the seller for the supply of RLNG / natural gas shall be on fortnight basis in USD per MMBTU on GCV basis Ex-Dahej RLNG terminal, Gujarat (including regasification charges, marketing margin).

		<p>i) The price of the NG proposed to be purchased shall be linked with the formula <math>Y = [\text{Platts LNG JKM} + 0.85 \text{ USD} + P]</math>.</p> <p>ii) <b>P</b> is the premium that buyer has to bid. The “<b>P</b>” in pricing formula shall remain fixed during the contract period.</p> <p>Gas Price would be computed up to three decimal places. “JKM” is the arithmetic average of all the JKM (M) frontline quotations published in the JKM Market Price Table for each Commodity Business Day, as published in Platts LNG Daily in the JKM Marker Price Table entitled AAOVQ00, during the Assessment Period</p> <p>“Assessment Period” means the period covering the second half (16<sup>th</sup> – month end (unless the 16<sup>th</sup> is not a Platts Business Day, in which case the next Platts Business Day until month end)) of M-2 month and the first half (1<sup>st</sup> – 15<sup>th</sup>, unless the 15<sup>th</sup> of that month is not a Platts Business Day, in which case the first half will end of the day immediately before the next Platts Business Day) of M-1 month;</p> <p>“M” is the calendar month in which the Gas is to be supplied</p> <p>“Commodity Business Day” shall mean a day in respect of which Platts LNG Daily published prices for “DES Japan/Korea Marker (JKM)”</p> <p>“JKM Marker Price Table” means the section headed “DES Japan/Korea Marker (JKM)” of the table “Platts daily LNG markers (US\$/MMBtu)” published in Platts LNG Daily.</p> <p>“Platts Business Day” means a business day for the purposes of the Platts Methodology and Specifications Guide; and “Platts LNG Daily” means the publication of that same name published by McGraw Hill Financial.</p> <p><b>Floor price as follows:</b> Notwithstanding the value calculated in (i), the Sales Gas Price for any month shall not be lower than 15.85 USD/MMBTU</p> <p>The <b>exchange rate</b> applicable for payment shall be 'Average of SBI TT Buying and Selling Rate' as applicable on the last day of a fortnight. If the last day of a fortnight is not a working day then immediate next Day of the fortnight shall be considered for exchange rate.</p>
7	Taxes	<p><b><u>Taxes to be borne by SELLER</u></b></p> <p>All other taxes, duties and surcharge including custom duty and all taxes on re-gasification and other taxes as applicable on gas sold and purchased under the GSA.</p> <p><b><u>Taxes to be borne by BUYER</u></b></p> <p>Sales Tax, VAT, CST, GST and other taxes as applicable on gas sold and purchased under the GSA.</p>
8	Nomination, Scheduling and Allocation procedure	The nomination, scheduling & allocation procedures shall be as specified in Annexure I below.

9	Planned Maintenance	<ol style="list-style-type: none"> <li>1) Seller may designate up to twenty (20) Days of Planned Maintenance on Seller's Facilities during Contract Year commencing from the start date of the GSA. Seller shall be entitled to reduce (including down to zero) its Gas scheduling for each Planned Maintenance Day.</li> <li>2) Buyer may designate up to twenty (20) Days of Planned Maintenance on Buyer's Facilities during Contract Year commencing from the start date of the GSA. Buyer shall be entitled to reduce (including down to zero) its Gas nominations for each Planned Maintenance Day.</li> <li>3) A Party may not designate more than two periods of Planned Maintenance in a Contract Year. Planned Maintenance Days shall be whole Days. In the event of a Contract Year that is less than a year, the number of Days allowance shall be proportionately reduced, provided that in such reduction, any fraction of a Day shall be rounded up to a whole Day. In the event a Party desires to take partial shutdown days for Planned Maintenance, the number of Days allowance may be extended by mutual agreement of the Parties to accommodate such partial shutdown Days.</li> <li>4) The Parties shall       <ol style="list-style-type: none"> <li>a) with respect to the first Contract Year, no later than thirty (30) days after the Start Date,</li> </ol> <p>deliver to the other Party a Planned Maintenance schedule setting forth each Party's Planned Maintenance requirements for the immediately following Contract Year. Following the delivery of the Planned Maintenance schedules pursuant to the preceding sentence, the Parties agree to meet promptly to discuss in good faith such Planned Maintenance requirements with a view to reaching an agreement between the Parties as to the timing and duration of any Planned Maintenance periods for the immediately following Contract Year.</p> </li> <li>5) If it becomes necessary or desirable for the Parties to change the schedule of any Planned Maintenance, then Seller or Buyer, as applicable, shall give the other Party not less than sixty (60) days' notice of the Days on which such Party shall carry out any such Planned Maintenance.</li> <li>6) The Parties shall use reasonable endeavours to synchronise Planned Maintenance among Buyer's Facilities, Transporter's Facilities and Seller's Facilities.</li> </ol>
10	Gas Delivery Point	Gas is to be delivered at the Outlet flange of the Dahej RLNG terminal, Gujarat
11	Gas Transportation	<p>As per the applicable delivery point [in the clause 10 above], the seller will provide the gas at the Outlet flange of the Dahej RLNG terminal, Gujarat.</p> <p>Buyer will be required to enter into a suitable transmission agreement for transmission of gas from LNG terminal to the consumption point.</p>
12	Facilities	<p><b><u>Seller's Facilities</u></b></p> <ul style="list-style-type: none"> <li>• Means the Gas metering facilities and other equipment necessary for flow control and the gas production, liquefaction,</li> </ul>

		<p>shipping including LNG Tankers, regasification, processing, compression, transportation, measuring and testing of Gas and any facility required for swapping of gas to enable delivery of RLNG to the Buyer at the Delivery Point.</p> <p><b><u>Buyer's Facilities</u></b></p> <ul style="list-style-type: none"> <li>• For CGD entities: the City Gate Station and City Gas Distribution network including all equipment installed by Buyer in the Authorised Area for City Gas Distribution.</li> <li>• For aggregators / resellers: the Gas receiving, and handling facilities located at _____, at which the pipeline connects with the downstream transporter.</li> <li>• For other Buyers: The Gas receiving, and handling facilities located at _____, at which the Gas sold under this Agreement is to be consumed</li> </ul> <p>Both parties are obligated to operate their respective facilities in accordance with the standard of a reasonable and prudent operator. Buyer will be obligated to ensure that gas transporter also operates its facilities in accordance with the standard of a reasonable and prudent operator.</p>
13	Take or Pay/Supply or Pay	<p><b><u>Take or Pay</u></b></p> <p>1) Buyer shall take a quantity of Gas in each Contract Month equal to eighty percent (80%) of the Adjusted Monthly Contract Quantity for a particular contract month, or Buyer shall be responsible for the payment of the Monthly Deficiency Payment pursuant to Monthly Deficiency Quantity. Adjusted Monthly Contract Quantity" means the Monthly Contract Quantity minus the sum of the following quantities for each Day</p> <ol style="list-style-type: none"> <li>a) Any quantity of Gas up to the DCQ that Buyer would have purchased but was prevented from purchasing by reason of Force majeure; plus</li> <li>b) Any quantity of Gas up to the DCQ that was nominated by Buyer for receipt, but that Seller failed to make available for delivery of nominated quantity; plus</li> <li>c) Any quantity of Gas up to the DCQ that Buyer would have purchased but which Buyer rejected because it failed to meet the Specifications; plus</li> <li>d) Any quantity of Gas by which a Party nominated or scheduled less than DCQ for each Planned Maintenance Day.</li> </ol> <p>Monthly Deficiency Quantity means difference, if positive, between (a) Eighty percent (80%) of the Adjusted Monthly Contract Quantity in such Contract month and (b) the quantity of Gas actually taken by BUYER.</p> <p>If, in any Contract month, there is a monthly Deficiency Quantity, Buyer shall pay Seller an amount ("Monthly Deficiency Payment") equal to the Price applicable for the second fortnight of the previous month multiplied by the applicable Monthly Deficiency Quantity for such Contract Month.</p> <p><b><u>Supply or Pay</u></b></p> <p>1) Supply or pay to trigger, if the Seller, for reasons other than of</p>

		Force Majeure, Planned Maintenance or for reasons attributable to the Buyer, if supply is less than 80% of the DCQ for a continuous period of 15 day and to be applicable till the day on which supply is more than 80% of the DCQ level. In case of supply or pay provision, EOGEP L shall be liable to pay the differential between the gas price and alternate arranged by the customer, subject to a maximum of 20% of gas price
14	Specification	The quality of gas to be supplied shall be as specified in Annexure II below.
15	Title of the gas	Title to and responsibility for the Gas shall be transferred from Seller to Buyer at the Delivery Point i.e. ex-Dahej RLNG terminal, Gujarat
16	Indemnity	<ol style="list-style-type: none"> <li>1) Each Party shall indemnify, keep indemnified and hold harmless the other Party and its respective directors, officers, employees and agents against any and all costs (including legal fees on a full indemnity basis), losses, damages, expenses, demands, claims, actions or suits that it may suffer or incur that arise out of any breach of any obligation by either Party under the GSA; provided, however, that the other Party shall endeavour to mitigate the impact of any such breach and minimise the damages, losses, penalties, expenses and costs arising there from.</li> <li>2) Each Party shall defend, indemnify and hold harmless the other Party from and against any and all losses, damages, penalties, costs and expenses on account of any claims demands, proceedings or judgements brought by any third party (including employees of either Party) or any government authority, caused by or resulting from or attributable to the installation, existence, ownership, possession, operation or maintenance of the respective Party's facilities including but not limited to any loss or harm to the environment or any death, injury or illness caused or arising and shall indemnify and hold harmless the other Party against any and all costs, damages or expenses whatsoever incurred by the Party in respect of any claims, demands, proceedings or cause of action arising in connection with any such death, injury or illness caused or suffered by any employee of the Party or its affiliates except to the extent caused by the wilful misconduct of the other Party.</li> </ol>
17	Metering of gas	<p>The total volume of gas received in the commingled form on a continuous basis using a custody transfer meter as per applicable Gas Measurement Standards is measured at the receiving station at:</p> <ol style="list-style-type: none"> <li>1) <b>At the outlet flange of the seller facility at ex-Dahej terminal, Gujarat</b></li> </ol> <p>The Seller and the Buyer shall jointly sign a statement, hereinafter referred to as "Joint Ticket" on each Day indicating meter reading for the purpose of Billing and Payment.</p>

18	Delivery Pressure	The Seller shall maintain the ability to supply RLNG to the Buyer at the Delivery Point at a pressure between 86 bar and 94 bar
19	Billing & Payment	<p>The Seller shall raise invoices for the quantity of gas supplied on fortnightly basis either in USD or INR and deliver via fax, e-mail and web hosting. Electronically delivered Fortnightly invoices shall carry a facsimile signature. The payment will be payable in INR within three bank working days from the date of receipt of invoice. The Exchange rate will be the average of as per Rate SBI TT Buying and Selling rate applicable on the last day of the fortnight. If the last day of a fortnight is not a working Day then immediate next day of the fortnight shall be considered for exchange rate.</p> <p>Buyer should provide an irrevocable, revolving standby Letter of Credit with value equal to 30 days gas price with validity of the duration of the contract period plus three months period (LC value = 30 days X 12421 MMBTU per day X delivered price per MMBTU as per the GSA)</p>
20	Change in Taxes	<ol style="list-style-type: none"> <li>1) Buyer will absorb any changes in Sales Tax, VAT, IGST on transmission (where applicable) and GST on regasification charges if shown separately in the invoice after submission of price bids.</li> <li>2) If State Government, Central Government of India modifies VAT rule, C FORM rule or in case GST becomes applicable after opening of Techno commercial bids but before opening of price bids, then Add- on / Take off price shall be sought from the bidders.</li> <li>3) In case GST becomes applicable during the Contract Term Duration, the Seller to accept compliance with GST as per guidelines [Compliance with Goods and Services Tax (GST)].</li> </ol>
21	Termination of Contract	<ol style="list-style-type: none"> <li>1) Without prejudice to any other rights and remedies available under the GSA, Seller may suspend delivery of Gas, upon ten (10) days' notice, in any of the following circumstances: <ol style="list-style-type: none"> <li>a) Buyer breaches a material term of the GSA, and such breach is not cured within thirty (30) days following notice from Seller;</li> <li>b) Buyer fails to pay any amount due under the GSA in full within thirty (30) days of the due date for such payment even if Seller is able to draw down the standby Letter of Credit;</li> <li>c) Buyer has failed to establish, maintain or renew the standby Letter of Credit as required herein;</li> <li>d) Buyer has breached the use/resale limitations in the GSA</li> </ol> <p>Upon and for the duration of such suspension, Seller shall be relieved of obligations to supply Gas under this GSA, but Buyer shall not be discharged of any of its obligations under the GSA including Buyer's obligations to take or pay for Gas. Seller shall resume delivering Gas as soon as reasonably practicable following the cure of the events listed above and in any case within 48 hours of such cure.</p> </li> </ol>

		<p>2) Upon the occurrence of any of the following events, Buyer may terminate the GSA:</p> <ul style="list-style-type: none"> <li>a) If Seller breaches a material in term of the GSA and such breach is not cured within thirty (30) days following receipt of notice from Buyer notifying Seller of such breach.</li> <li>b) If Seller voluntarily commences any proceeding, or files a petition seeking its liquidation, reorganization, dissolution, winding up, composition, or other relief pursuant to applicable laws; or consents to the commencement of any proceeding or the filing of any petition against it pursuant to applicable law.</li> <li>c) If as a result of a Force Majeure event, the Seller is not able, or will not be able, to make available for delivery the nominated quantity.</li> <li>d) If good faith discussion in respect of 'Review clauses' do not result in a mutually agreed decision within 30 (thirty) days of start of such good faith discussion.</li> </ul> <p>Review Clauses shall mean circumstances whereunder the Buyer may seek re-negotiation with the Seller in respect of the terms of supply:</p> <ul style="list-style-type: none"> <li>i. if there is a credit crisis or sharp decline in economic activity affecting the economy at large or affecting the relevant industry at large; and/ or</li> <li>ii. If there is a sharp increase in market prices of essential raw materials, energy or transportation, and supply disruptions.</li> </ul> <p>(each a "Seller Event of Default").</p> <p>3) Buyer may terminate the GSA upon thirty (30) days prior notice to Seller if, Seller fails to make available for delivery (when nominated by Buyer up to the DCQ) a quantity of Gas equivalent to at least forty-five (45) days of DCQ but excluding quantities for which Seller's failure is excused due to Force Majeure and quantities by which Seller reduced their Gas scheduling as permitted for Planned Maintenance Days. Buyer must notify Seller within thirty (30) days of the end of the one (1) year period in which Seller failed to make available for delivery such quantity of Gas.</p>
22	Dispute Resolution	<ul style="list-style-type: none"> <li>1) Any dispute, controversy, difference or claim arising out of or relating to the GSA or the breach, termination or validity thereof (a "Dispute"), shall at the first instance be mutually discussed for resolution between the Parties within a period of thirty (30) days after giving notice by one Party to the other Party.</li> <li>2) Either Party may request an Expert determination with respect to a dispute by giving the other Party a written notice of the request for such determination. The Expert determination shall be conducted expeditiously by an Expert selected unanimously by the Parties. The Expert shall not an arbitrator of the dispute and shall not be deemed to be acting in an arbitral capacity. If the Parties are unable to agree upon an Expert within ten (10) days after receipt of the notice of request for an Expert determination, then upon the request of either of the Parties, the International Centre for Expertise of</li> </ul>



		<p>the International Chamber of Commerce (“ICC”) shall appoint an Expert and administer the Expert determination through the ICC’s Rules for Expertise. The Expert shall endeavor to resolve the Dispute within thirty (30) Days after the Expert’s appointment, taking into account the circumstances requiring an expeditious resolution of the matter in dispute. The Expert’s decision shall be final and binding on the Parties in the Dispute unless challenged in an arbitration under the GSA within sixty (60) Days after the date the Expert’s final decision is received by the Parties in the Dispute. In an arbitration either to challenge or confirm the Expert’s decision,</p> <p>a) the Expert’s determination on the specific matter will be entitled to a rebuttable presumption of correctness; and</p> <p>b) the Expert shall not (without the written consent of all the Parties) be appointed to act as an arbitrator or as adviser to either of the Parties.</p> <p>“Expert” means an independent expert appointed to resolve a dispute of a technical nature.</p> <p>3) Initially the dispute shall be resolved by amicable settlement. In case the dispute remains unresolved, then it shall be referred by either party for arbitration to be settled by a 3- arbitrators panel.</p> <p>4) The arbitration proceeding shall be conducted by a single arbitrator. The buyer shall nominate three (3) independent arbitrators’ panel (‘Panel’) upon signing of the Gas Supply Agreement. Within thirty (30) days of the date of a request for arbitration, Seller shall nominate one (1) arbitrator out of the Panel.</p>
23	Governing Law	<p>The GSA shall be governed by the laws of India, including, without limitation, of the relevant Central/State Acts and the Rules, Regulations and Notifications issued and amended from time to time there under. The courts at Gujarat, India shall have exclusive jurisdiction for the purposes of the GSA to grant such relief in aid of arbitration as may be permitted under the Arbitration and Conciliation Act, 1996.</p>
24	Force Majeure	<p>1) The term "Force Majeure" means any event or circumstance or combination of events or circumstances that affects the performance by a Party (such Party, the "Affected Party") of its obligations pursuant to the terms of this Agreement (including by preventing, hindering or delaying such performance), but only if and to the extent that such events and circumstances are not within the Affected Party's reasonable control and were not reasonably foreseeable and the effects of which the Affected Party could not have prevented or overcome by acting as a Reasonable and Prudent Operator or, by the exercise of reasonable skill and care. Force Majeure events and circumstances shall in any event include the following events and circumstances to the extent they or their consequences satisfy the requirements set forth above in this Clause:</p> <p>a) The effect of any element or other act of God, including any storm, flood, drought, lightning, earthquake, tidal wave, tsunami, cyclone or other natural disaster;</p>

		<ul style="list-style-type: none"> <li>b) fire, accident, loss or breakage of facilities or equipment, structural collapse or explosion;</li> <li>c) epidemic, plague or quarantine;</li> <li>d) air crash, shipwreck, or train wreck;</li> <li>e) acts of war (whether declared or undeclared), sabotage, terrorism or act of public enemy (including the acts of any independent unit or individual engaged in activities in furtherance of a programme of irregular warfare), acts of belligerence of foreign enemies (whether declared or undeclared), blockades, embargoes, civil disturbance, revolution, rebellion or insurrection, exercise of military or usurped power, or any attempt at usurpation of power;</li> <li>f) strike, lockout or other industrial disturbances</li> </ul> <p>2) Where a party is claiming suspension of its obligations on account of Force Majeure, it shall promptly, but in no case later than two (2) days after the occurrence of the event of force majeure, notify the other party in writing giving the full particulars of the Force majeure as follows:</p> <ul style="list-style-type: none"> <li>a) reasonably full particulars of the event or circumstance of Force Majeure and the extent to which any obligation will be prevented or delayed;</li> <li>b) such date of commencement and an estimate of the period of time required to enable the Affected Party to resume full performance of its obligations; and</li> <li>c) all relevant information relating to the Force Majeure, the reason for suspension of duties and full details of the measures the Affected Party is taking to overcome or circumvent such Force Majeure.</li> </ul> <p>3) The Affected Party shall have to prove that the circumstances constitute valid grounds of Force Majeure under this Clause [24 (2)] and that it has exercised reasonable diligence efforts to remedy the cause of any alleged Force Majeure.</p> <p>4) The Affected Party shall notify the other Party when the Force Majeure has terminated or abated to an extent which permits resumption of performance to occur and shall resume performance as expeditiously as possible after such termination or abatement.</p> <p>5) Mitigation Responsibility</p> <ul style="list-style-type: none"> <li>a) The Affected Party shall use all reasonable endeavours, acting as a Reasonable and Prudent Operator, to circumvent or overcome any event or circumstance of Force Majeure as expeditiously as possible, and relief under this Clause [24] shall cease to be available to the Affected Party claiming Force Majeure if it fails to use such reasonable endeavours during or following any such event of Force Majeure.</li> <li>b) The Affected Party shall have the burden of proving that the circumstances constitute valid grounds of Force Majeure under this Clause [24] and that it has exercised reasonable diligence efforts to remedy the cause of any alleged Force Majeure.</li> </ul>
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		<p>in the absence of manufacturer recommendations, failure to perform maintenance in accordance with the standard of a Reasonable and Prudent Operator), or</p> <p>3) the non-availability at appropriate locations of standby equipment or spare parts in circumstances where reasonable prudence and foresight would have required that such equipment or spare parts be made available.</p> <p>iii. the non-availability or lack of funds or failure to pay money when due; and</p> <p>iv. where Buyer is the Affected Party, an executive act of any Relevant Authority unless such executive act</p> <ol style="list-style-type: none"> <li>1) applies to all gas purchasers, and</li> <li>2) was not undertaken by the Relevant Authority principally to benefit Buyer.</li> </ol>
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\*All clauses are subject to legal vetting

\*\*The detailed price formula for Price of NG linked with the ICE Brent Crude shall be provided in the GSA/RFP.

**Annexure I****Nomination, Scheduling and Allocation Procedures**

- 1) Annual Estimates
  - a) Buyer shall provide written estimates to Seller of the quantities of Gas to be delivered at the Delivery Point during each Contract Month of the following Contract Year, no later than thirty (30) days after the Start Date for the Contract Year.
- 2) Scheduling Procedure
  - a) Seller shall notify on or before 6:30 pm on preceding day for delivery of the gas on the next day of the quantity of Gas available for delivery to Buyer at the Delivery Point for the Day of Gas flow based on aggregate Daily Nominated Quantity and aggregate quantity of Gas available for supply at Delivery Point, and Seller shall confine such quantity with gas transporter.
  - b) In the event Seller need to curtail Gas deliveries on any Day, Seller may notify Buyer of the adjustment to the quantity available and shall confine the adjustment with gas transporter and Scheduled Daily Quantity shall be adjusted accordingly.
- 3) Allocation Procedures
  - a) By 12:00 noon on the Day after the Day of Gas delivery, Seller shall provide Buyer a statement of the Allocated Quantity at the Delivery Point on the Day.
  - b) Buyer's Allocated Quantity shall be calculated as the Measured Quantity multiplied by Buyer's Scheduled Daily Quantity for the Day and divided by the total of the scheduled daily quantity for all deliveries at the Delivery Point for the Day; provided, however, that the Allocated Quantity shall not exceed Buyer's Scheduled Daily Quantity for the Day.
  - c) Seller and Buyer or Buyer's nominee shall countersign on each Day an acknowledgement of the Allocated Quantity of Gas delivered by Seller and received by Buyer or Buyer's nominee on the previous Day at the Delivery Point.

**Annexure II**  
**Gas Specification**

The quality of gas to be supplied shall be as specified below.

- a) The Gross Heating Value of Gas: The Gas supplied at the delivery point shall have minimum Gross Heating Value (GHV) in a gaseous state equal to 9,880 Kilo calories per standard cubic meter.
- b) The composition of the gas shall be as indicated in the below:
  - i. Methane (C1) - Not less than 80 Mol %
  - ii. Ethane (C2) - Not more than 9.2 Mol %
  - iii. Propane (C3) - Not more than 4.5 Mol %
  - iv. Butane (C4) and heavier hydrocarbons - Not more than 2.5 Mol %
  - v. Pentane (C5) and heavier hydrocarbons - Not more than 0.35 Mol %
  - vi. Non-combustible gases other than Non- Hydrocarbons including CO<sub>2</sub> and N<sub>2</sub> - Not more than 6.0 Mol %
  - vii. Total Sulphur including H<sub>2</sub>S - Maximum 10 ppm by weight including Sulphur in the form of H<sub>2</sub>S not more than 5 ppm by weight.
  - viii. Impurities - Gas shall be free from sand, dust, gums, oils, hydrocarbons liquefiable at temperatures or pressure prevailing in the pipe line. Gas shall be free from other deleterious solids and or liquid matters which will render it un-merchantable or cause injury to or interference with proper operations of the lines, regulators, meters or other appliances through which it flows. The gas shall be free from O<sub>2</sub>.
  - ix. Water content/Moisture – No free water shall be present.

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