

*Summer Internship Project Report*  
*On*  
*A Study on the Overview Of GAIL*  
*Pipeline (VSPL)*



*Bachelor*  
*Of*  
*Chemical Engineering*



Submitted by : Penumaka Marium Sruthi  
3<sup>rd</sup> Year Chemical Engineering  
College: Guru Ghasidas Vishwavidyalaya  
(A Central University)  
Bilaspur , Chattisgarh  
Roll No: 21021135



*Under Supervision of*  
**Shri. Stephen Patta**  
(DGM, LPG, O&M) GAIL(India) Limited  
VSPL Despatch Terminal Visakhapatnam



**गेल (इंडिया) लिमिटेड**

(प्राचीन भारतीय गैस उपकरण - भारतीय कंपनी)

**GAIL (India) Limited**

[A Government of India Undertaking - A Maharatna Company]

एडिजियु गैस विभाग, बिलासपुर के पीछे  
सीता नगर, बी एस पी टी (पीएच)  
बिलासपुर - 530 012 (आ.प्र.)

EXIM PARK, BEHIND VIKAS COLLEGE  
SHEELANAGAR, BILASPUR (C.G.)  
VISAKHAPATNAM - 530 012 (A.P.)

फोन नं. / PHONE 2749771/2749772  
2748433 / 2748432  
फैक्स नं. / FAX No. 2748433/2748432

REF: NO.GAIL/VIZAG/HR/SUM-TRNG/2024/06

14<sup>th</sup> June, 2024

## CERTIFICATE

This is to certify that Ms. P. Mariam Sruthi, a student of B. Tech, Chemical Engineering, R. No. GGV/21/01535, from Guru Ghasidas Vishwavidyala, Bilaspur(C.G.) has undergone Industrial Training / Summer Internship for a duration of Four Weeks w.e.f. May 15, 2024 to June 14, 2024 at GAIL, Visakhapatnam. During this period she has prepared a project report on the topic "A STUDY ON OVERVIEW OF THE GAIL PIPELINE (VSPL)".

During the above period we found her sincere, keen to learn, courteous and adaptable to work environment. Her conduct during the above period of training was very good.

We wish her a great success in all her future endeavours.

WNS S  
14-06-2024

(W. N. S. S. PRASAD)  
Manager (HR)

डायरेक्टर जनरल एन एस एस प्रसाद  
डायरेक्टर (आ.प्र.) Manager (HR)  
गैस (इंडिया) लिमिटेड GAIL (India) Limited  
बिलासपुर नगर Bilaspur - 530 012

पंजीकृत कार्यालय  
16 बिक्राजी कामा पैलेस  
आर के पुरम  
नई दिल्ली - 110066

REGD OFFICE  
16 BIKRAJI KAMA PALACE  
R.K.PURAM NEW DELHI - 110 066

रजिस्ट्रेशन/CIN  
L40200DL1984G01018976

[www.gailonline.com](http://www.gailonline.com)

## **LIST OF FIGURES**

<b><i>FIG NO.</i></b>	<b><i>TITLE</i></b>	<b><i>PAGE NO.</i></b>
<i>1.1</i>	INTRODUCTION TO GAIL	<i>1</i>
<i>2.1</i>	Route Map of VSPL	<i>3</i>
<i>2.2</i>	VSPL Pipeline Overview	<i>5</i>
<i>3.1</i>	Battery Limit Area	<i>10</i>
<i>3.2</i>	Centrifugal Pump Coupled with Motor	<i>11</i>
<i>3.3</i>	Booster Pumps	<i>11</i>
<i>3.4</i>	Pipeline Pigging	<i>12</i>
<i>3.5</i>	Foam Pig	<i>13</i>
<i>3.6</i>	Brush Pig	<i>14</i>
<i>3.7</i>	Magnetic Pig	<i>14</i>
<i>3.8</i>	Intelligent Pig	<i>15</i>
<i>4.1</i>	Fire Triangle	<i>20</i>
<i>4.2</i>	DCP Fire Extinguisher	<i>22</i>
<i>4.3</i>	CO2 Fire Extinguisher	<i>23</i>