

A Study of Barmer Refinery in Western Rajasthan

*Sonal Parihar

ABSTRACT

Natural oil is one of major energy resource on earth. Fast experience suggest that oil and gas exploration leads to a multi dimensional growth and development of the region And nation as a whole with this view point this papers examines the recent oil exploration in the Barmer district of Rajasthan in India and its positive impact on socio economic development of the region and country with special reference to employment generation and sectoral multilization aspects. The present paper analysis various issues in the case of oil finding in the reason.

New set of employment opportunities, sectoral mobilization, infrastructure development, industries and service sector development, education and training needs are the key developments after oil findings. These would have great impact on the socio economic structure of the region.

This paper will study the development pattern of oil and Gas exploration and its impact on development of desert area.

Key Word:- Oil Exploration, Employment Generation, Sectoral Mobilization, Infrastructure Development.

INTRODUCTION:-

The green field refinery cum petrochemical complex at Barmer, Rajasthan is being setup by a joint venture company HPCL Rajasthan refinery limited (HPCL) of Hindustan petroleum corporation limited (HPCL) and Government of Rajasthan (GOR) having a state of 74% and 26% respectively.

Project Cost - 43,129 Crore (**Pib.gov.in**)

The HRRL refinery complex will process 9 MMTPA of crude and produce more them 2.4 million tons aap petrochemical which will reduce import oil on account of petrochemicals. (Pib.gov.in)

As withessd in past oil discoveries in other parts of World the finding of large quantity of natural oil and gas in the Barmer is decisively going to begin the multidimensional growth of the region mainly in the area of employment generation, sectoral mobilization infrastructure and industrial development and Socio economic development of the region. The present paper well addresses this aspect along with the identifying the important factors and analysing their status and Dynamics. This paper is also aimed at examining the exploration - desert development relation.

A Study of Barmer Refinery in Western Rajasthan

Sonal Parihar

First project in India integrated with refinery and petrochemical complex countries most advanced and B56 standard first refineries.

OBJECTIVES OF THE STUDY:-

1. To examine recent oil and gas exploration in the Barmer district of Rajasthan.
2. To study impact on desert area Economic development of the region.
3. To study impact on desert area social development of the reason.
4. To study impact on desert area infrastructure development of the region.

Methodology :-

In order to make the study comprehensive descriptive methodology have been adopted by the different aspect of the study.

- ★ The data for the study was retrieved from reliable [secondary resource](#). It aimed to examine the desert area development after oil and gas exploration.
- **Economic review of Rajasthan.**
- **Statistical organisation data of Rajasthan economy.**
- **Rajasthan economics survey Report.**
- **RSMML eport.**
- **Newspaper Report and Website**

India is the third largest consumer of crude oil in the world, after the United States and China. The country accounts for about 5% of total world oil consumption. India produce about 16% of total domestic consumption. Last 84% consumption requirement are met by import.

Rajasthan is a significant produce of crude oil in India. The state contributes about 20% (6 million metric tonnes per annum) to total crude oil production (30 MMTPA) in India and the Second Largest Producer After Bombay High.

Petroleum producing area in the state in spread over of about 1,50,000 SQUARE KM (14 districts) under 4 Petroliferous Basins.

1. Barmer - Sanchore Basins -(Barmer & Jalore District)
2. Jaisalmer Basin - (Jaisalmer District)
3. Bikaner - Nagour Basin - (Bikaner, Nagour, Shree Ganganagar, Hanumangarh & Churu District)
4. Vindhyan Basin - (Kota, Baran, Bundi , Jhalawar, Part Of Bhilwara & Chittorgarh District)

A Study of Barmer Refinery in Western Rajasthan

Sonal Parihar

- Commercial Production of Crude Oil Commenced From Mangla Field on 29 August, 2009 and at Present about 98000 - 1,02000 Barrels Of Oil per day is being Produced from 14 fields i.e. Mangla, Bhagya, Aishwarya, Sarswati, Raageshwari, Kamlawari and Other Satellite Field.
- A total of 34.93 Lakh Metric tonnes of crude oil was Produced During Financial Year 2022-2023 (Upto Nov.2022) From Barmer - Sanchore Basin By Cairn India Limited and 1080.26 MMSCM Natural Gas Was Produced During Financial Year 2022- 2023 (upto Nov.2022) From Jaisalmer and Barmer - Sanchore Basin.

Table

YEAR	CRUDE OIL		NATURAL GAS
	PRODUCTION (Lakh Metric Tonnes)	PRODUCTION (Million Barrels)	PRODUCTION (MMSCM)
2019 - 20	66.29	47.88	1160.92
2020 - 21	58.83	42.62	1232.75
2021 - 22	58.63	42.46	1684.51
2022 -23	34.93	25.27	1080.26

PRODUCTION FROM PETROLEUM SECTOR

UPTO NOVEMBER 2022

IMPACT :-

★ECONOMIC IMPACT

- Employment Generation - it is expected that the oil related operations in Barmer provided employment opportunities resulting in economic development.
 - Also per capital income has increased thereby resulting in improvement of lifestyle.
 - The oil discovery in Barmer provided a source of survenue to the state government in the form of royalty and benefited the local economy. During the financial year 2022-23 (UPTO NOVEMBER 2022), Revenue is 3603.38 Crore accused.
 - Facilitate huge amount of foreign investment, job creation in the region not only in the oil sector but also in other related fields.
 - Related to Oil exploration, the desert region witnessed substantial growth of industries, which use the products of crude oil industries. Such as - nylon, plastic related industries, PBC industries, pesticides making factory, fertilizers industries, cosmetics, medicine cover manufacturing including many more Type of industries set-up Around The Refinery.
- ✓ Barran Expanses are now dotted by plenty of lands.

A Study of Barmer Refinery in Western Rajasthan

Sonal Parihar

★ SECTORAL MOBILIZATION ASPECT:-

Sectoral Mobilization of workforce, which includes transition and shift of occupations.

- 1) This venture provided a gateway to earn better wages and the better standard of living.
- 2) It forced intermittent workers shifted to secondary and tertiary sector which provides them with more lucrative regular employment.
- 3) Poverty of non- agricultural jobs problems resolved by providing alternative and attractive job opportunities to this rising population and landless labours.

★ INFRASTRUCTURAL ASPECTS :-

This sector plays a vital role in the land of development after exploration roads connectivity, Electricity, Educational Centres, Medical Facilities, Hotels are fastly developed.

★ SOCIAL SECTOR / ASPECTS :-

- 1) Barmer stands an example of how CSR can be approached with optimism, a sense of social welfare and also a complementing astuteness of benefitting both in cell and subject.
- 2) Literacy data has increased due to various programmes run in the region after oil and gas exploration.
- 3) Migration in search of job opportunities plans the way to socio - economy and various other cultural changes.
- 4) Social welfare itself is a most productive business that is seen, not entitential to profitmaking but essential to wholesome ent.
- 5) It promoted educational/ academic tour visits for students under vocational education.
- 6) School land has been acquired

★ Environmental Benefits of the Project :-

- 1) A wetland habitat for migratory birds like Demoiselle Crane is being developed in the refinery complex.
- 2) Benefit the environment include regeneration of natural surface water bodies and Avenue plantation from Pachpadra to Khed.
- 3) Study by AFRI is being conducted for the desert lands in the complex to convert the same into green belt considering in the high salt content in the land.

★ SUGGESTION :-

- ✓ In term of distribution of workforce of Barmer district that the distribution of workforce in the manufacturing, processing and repairing services is quite low, thus suggesting a need to develop the human resource in this domain.

CONCLUSION:-

The main challenge of desert area is undoubtedly to increase the living standard and welfare of local

A Study of Barmer Refinery in Western Rajasthan

Sonal Parihar

people. These challenges of the home and mind are often more difficult to overcome. Barmer refinery may be a persuasive Microcosm for India, Particularly in achievement targets of becoming self sufficient, Empowering People and Bringing Innovation. It provided greater opportunity in the days to come and Barmer thus, shines as a model where journey so forth and possibility ahead worth motivate more change that is sustainable. The present study is a positive step in this direction.

The research helps to describe the demention of development and also helpful to formulate a future plan for the balanced desert area development and relevant strategy is to minimise spatial variations in the level of development at micro - land.

***Research Fellow
Department of Geography
Dayanand PG College, Ajmer (Raj.)**

REFERENCES :-

1. Kumari P , Dewasi O P (2019)
2. Oil and Gas Exploration : A study for Desert Area Development Of Rajasthan, IJRAR, Volume 6 Millennium Post. In (Sites)
3. Sharma R. , Arora R (2012) [-Socio Economic assessment of Oil Exploration in Barmer Region Of Rajasthan , ISSN, Volume 1; No. 1]
4. Singh R. (2006). Regional Disparities In Level Of Socio Economic Development in Post Reforms Periods : A District Level Analysis, Annals Of NAGI, Volume 26,
5. Kothari, V, " Discovery And Petroleum System Of Barmer Basin, India" , March 2015
6. Government of Rajasthan (2022-23) - Economic Review - Rajasthan
7. pib.gov.in
8. www.ministry of petroleum and natural gas.com
9. Patra, Debesh C. , (2004) Oil Industry In India : Problems and Prospects In Post APM era India: Mittal Publications.

A Study of Barmer Refinery in Western Rajasthan

Sonal Parihar