

**UNDERTAKING FOR THE PAYMENT OF THE ADDITIONAL NET
PRESENT VALUE OF FOREST AREA**

It is certified that IRM Energy Private Limited (IRMEPL) have applied for diversion of 0.1627 ha of forest area for the purpose of Laying Proposed Gas Pipeline Project in Fatehgarh Sahib District.

We hereby undertake to pay additional NPV, if so determined as per the decision of the Honorable Supreme Court of India.

Date:

Place:

For IRM Energy Private Limited




**Prashant Sagar
Asst. Vice. President-Projects**

Countersigned

**Divisional Forest Officer,
Patiyala Forest Division,
Patiyala.**

UNDERTAKING FOR THE PAYMENT OF COST OF RESERVE PRICE
OF TREES

IRM Energy Private Limited (IRMEPL), undertake to pay the entire amount for reserve price of trees in lieu of the forest area diverted to 0.1627 ha of forest land permission for Proposed Gas Pipeline Project in Fatehgarh Sahib District under Forest Division Patiyala, Punjab.

Date:

Place:

For IRM Energy Private Limited




Prashant Sagar
Asst. Vice. President-Projects

Countersigned

**Divisional Forest Officer,
Patiyala Forest Division,
Patiyala.**

UNDERTAKING FOR THE PAYMENT OF THE NON FOREST LAND

It is certified that IRM Energy Private Limited (IRMEPL) have applied for diversion of 0.1627 Ha of forest area for the purpose for passage to proposed Gas Pipeline Project in Fatehgarh Sahib District,

IRMEPL, hereby, undertake to pay the price of Non Forest Land of the above forest land.

Date:

Place:

For IRM Energy Private Limited



**Prashant Sagar
Asst. Vice. President-Projects**

Countersigned

**Divisional Forest Officer,
Patiyala Forest Division,
Patiyala.**

UNDERTAKING FOR THE PRIVATE/GOVT. PREMISES

It is certified that IRM Energy Private Limited (IRMEPL) have applied for diversion of 0.1627 ha of forest area for the purpose of laying Proposed Gas Pipeline Project in Fatehgarh Sahib District.

We hereby undertake that the area meant for laying proposed gas pipeline in Fatehgarh Sahib District is Government Premises.

Date:

Place:

For IRM Energy Private Limited



**Prashant Sagar
Asst. Vice. President-Projects**

Countersigned

**Divisional Forest Officer,
Patiyala Forest Division,
Patiyala.**

UNDERTAKING of SCHEDULE TRIBES CERTIFICATE

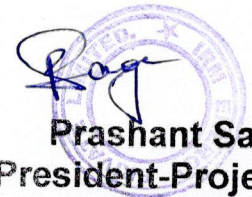
It is certified that IRM Energy Private Limited (IRMEPL) have applied for diversion of 0.1627 ha of forest area for the purpose of laying Proposed Gas Pipeline Project in Fatehgarh Sahib District.

We hereby undertake that we have applied to Deputy Commisioner, Fatehgarh Sahib office for Schdule Tribes Cedrtificate. I will submit the same as soon as we get it.

Date:

Place:

For IRM Energy Private Limited



**Prashant Sagar
Asst. Vice. President-Projects**

Countersigned

**Divisional Forest Officer,
Patiyala Forest Division,
Patiyala.**

Certificate for the minimum use of Forest Land and justification for locating the Project on Forest Land.

The PE & STEEL Natural Gas Pipeline will be laid along & across **1 R Distributory & SH-12A (Mandi Gobindgarh to Amlah)** as said herein above, at minimum 1.2 m below the ground level and these area are declared as protected forest under the Forest Act.

The area of **1626.62 Sq.Mt (0.1627 Hector)** for the laying PE & STEEL Gas pipeline is the basic minimum requirements and considering the safety of pipeline to be laid on other facilities, minimum land width is proposed to use in the forest area, as the pipeline will be laid along & across **1 R Distributory & SH-12A (Mandi Gobindgarh to Amlah)**.

The area required for laying of the Gas pipeline is minimum and is a part the protected forest.

For IRM Energy Private Limited



Prashant Sagar
Asst. Vice President-Projects

Place : Ahmedabad

Date : 17/03/2017

UNDERTAKING TO PAY THE COST OF COMPENSATORY AFFORESTATION

Certified that the applicant under the jurisdiction in its Gujarat area agrees to make payment of cost towards Compensation on the degraded area admeasuring, double the area of Forest proposed to be used.

The applicant is also willing to pay Compensation to the Forest Department for the expenditure to be incurred by the Forest Department for plantation for compensatory afforestation.

For IRM ENERGY PRIVATE LIMITED



**Prashant Sagar
Asst. Vice President-Projects**

**Place : Ahmedabad
Date : 17/03/2017**

UNDERTAKING TO PAY NPV

This is to certify that the applicant under the jurisdiction in its Gujarat area is willing to pay the Net Present Value (NPV) of the 0.1627 Hector Forest Land diverted for the said non forestry purpose as per the Hon. Supreme Court's Order Dtd. 12.11.2002.

The revision of rate of NPV is under consideration of the expert committee appointed by the Hon. Supreme Court. Therefore the user agency mentioned above, also undertake to pay the difference if any in case of upward revision of the NPV.

For IRM ENERGY PRIVATE LIMITED



Prashant Sagar

Asst. Vice President-Projects

Signed in the Presence of

(Dy. Conservator of Forest)

Undertaking for payment of NPV for Government / Public Welfare Projects

The Government of India has, vide their letter number 5-1/98-FC(Pt-II) dated 19th December, 2005 directed that Government projects like hospitals, dispensaries, non-commercial government ventures like, school rain water harvesting, tanks, sewer lines, village roads, which are meant for public welfare may be allowed after taking as undertaking from the user agency that in case it is finally decided by the Supreme Court that such projects are not exempt from payment of NPV, the user agency will pay the amount of NPV as determined and ordered by the Supreme Court.

Accordingly, we hereby undertake to pay the amount of NPV as determined and ordered by the Supreme Court in case it is finally decided by the Supreme Court that such projects are not exempt from payment of NPV.

For IRM Energy Private Limited



Prashant Sagar
Asst. Vice President-Projects

Place : Ahmedabad
Date : 17/03/2017

Signed in the presence of

Dy Conservator of Forests

Justification for locating the project in forest area to be submitted by user Agency and countersigned by DCF

JUSTIFICATION FOR PROJECT

In consideration of the requirements of Environmental parameter, constructions methodologies to be adopted for different terrain encountered en-route, design and engineering factors, availability of logistic support during construction, operation and maintenance of pipeline, various feasible routes were identified by the Consultant **M/s. Deshpande-Patil Consultants** based on Desk Study of relevant topographic maps of Survey of India.

The study was subsequently supplemented with field reconnaissance and data collection along the feasible routes. Finally the optimum route was arrived at after analyzing the various data and conducting in depth study of topographic maps based on field data.

The route is finalized. The respective route passes along & across **1 R Distributory & SH-12A (Mandi Gobindgarh to Amloh)** as said herein above to provide Gas to **Domestic, Commercial and Industrial Units in Mandi Gobindgarh & its surrounding areas of Fatehgarh Sahib.**

The Pipeline will be laid at minimum 1.2 m below ground level and as per the requirement of the authority.

The pipeline will be passing through Protected Forest land for about **1626.62 Sq.mtr.** i.e. Hectares **0.1627** of land as per enclosed **Annexure -7.**

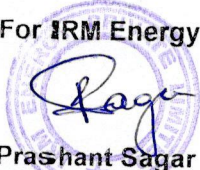
Factors considered

While identifying the various alternatives for selection of the optimum route following factors were considered.

- **Pipeline route has been finalized in such a way that minimum forest land will be utilized as well as tree cutting will be minimum.**
- Demand and supply center.
- Compliance with environmental regulations.
- Safety of people and property.
- Shortest possible pipeline length.
- Minimum number of bends.
- Favourable ground profile for pipeline hydraulics.
- Accessibility to pipeline route during construction, maintenance and operation.
- Location of pipeline facilities and access thereto.
- Avoidance of mining protected and reserved forest archaeological and other sensitive areas.
- Avoidance of unstable ground features.
- Minimizing road, rail, rivers and flood prone areas.
- Avoidance of rocky stretches.
- Avoidance of areas reserved for planned future development.
- Flexibility for future expansion.

Based on the above detailed route surveys have been carried out to finalize the exact corridor for laying the pipeline.

For **IRM Energy Private Limited**



Prashant Sagar
Asst. Vice President-Projects