No J-11011/84/2000-NA 11 G vernment of India Ministry if Environment & Forests I.A.Division

> Paryavaran Bhavan, CGO Complex. Lodi Road, New Delhi-110003

> > Tele No 4363964

Dated 30th January, 2001

To,

The Chairman & Managing Director, M/s Caira Energy India Pvt. itd. Willington Plaza, Ind Joses, 90 Anna Salai, Chennai-600002

Subject :- Ravv & Gas Developmen Project in the bay of Bengal, Andhra Pradesh Coast by Mis Cairn Energy India Pvt. Ltd. - Environmental Clearance reg.

Sir,

This has reference to your I tter No. Nil dated 31st October, 2000 along with project documents including EIA/ M, Public Hearing Report, NOC from Andhra Pradesh, SPCB and subsequent el rifications firmished vide your letter dated 20th December, 2000 28" December, 2 00 and 29th December, 2000 regarding the above

Ministry of Environment and Forests has carefully examined your application. It is noted that the proposal is for development of additional gas exploitation (expected yield 0.9 MMSCMD). Additional facilities pro losed under the "Revva Satellite Gas Development" project involve the following activitie garden

Offshore Facilities:-

- 1. one offshore well platform in shall be water depths (S-10m) & about 6.5 km away from existing on-shore terminal.
- 2. Drilling of a new gas well upto a cepth of 1300 m from sea bed
- 3. Laying of 2 inter platform pipeline segments and one pipeline from new platform to
- 4. Hook up of two already completed wells as well as tie in and completion of one gas well which was drilled in the earlier phases of exploitation.

Onshore Facilities:

- 1. Gas handling and compression fact lities.
- 2. Gas dehydration facilities.
- 3. Gas merering and control.

Pipelines:

- 1. one subsea flowline between RF and RG platforms.
- 2. One subsea flowline between RD at RH platforms and
- 3. One subsea pipeline from RH platfd in to the onshore terminal.

held on 28th July, 2000.

EIA Notification dated 27th January, conditions:-

SPECIFIC CONDITIONS:

- life.
- - be used for preparation of driling fluids.
 - ecologically sensitive areas.
 - dilution and dispersion.
 - The drill contines should be reduction in transmittance.
 - Company should submit we cuttings used/generated alor distribution etc.).

It is also noted that the Andhra Prade it SPCB has issued NOC for the project on 27th October, 2000 and the Public Hearing Panel has recommended the case in the meeting

The Ministry of Environment and Fore its hereby accords environmental clearance under 194 subject to strict compliance of the following

1. The Schedule for commencement by the drilling operation should be intimated at least one month in advance to the Wildlife Warden having jurisdiction over the nearest coastal area so as to enable him to monitor its impact, if any, as on the wild

2. Approval from DG Shipping under the Merchant Shipping Act prior to commencement of the drilling operations should be obtained. At least 30 days prior to the commencement of drilling, the exact location should be intimated to the Director General of Shipping, Mumbri are the Company should since by any direction he may issue with respect to ensuring the safety of navigation in the area.

3. As reflected in the EMP the dri ing fluid should be reused/recycled. As per the norms stipulated under EPA, effe as should be made not to discharge dri ling fluid/ mud/cuttings into rea. The drill attings/ mud should be disposed out or shore in a secured landtill site approved by e Andhra Pradesh SPCB. In case disposal on land is not feasible. Ministry hereby grants provisional permission for use year for disposal of the residual water best drilling fluids and drill cuttings after proper washing into sea subject to following conditions:

The project authority should a sure that only low toxicity chemical additives shall

The disposal point should be heated at least 5 KM away from the shoreline and

At the disposal point, the selfbed currents should have a minimum velocity of 60cm/sec and sea depth of 0 meter minimum must be available for proper

dispharged intermittently to avoid furbillity and

wise data on the quantity of water beard mide / with slurry volume and properties (particle since

- Company should monitor the sea surface water quality in terms of oil content around the well and submit eports to the Ministry on a monthly basis during the period of drilling operations.
- 4. The company should monitor the heavy metal concentration in the marine fish species before taking up the drilling activities and subsequently thereafter on a yearly basis.
- 5. Even though the proposed site it not part of National Park or wild life sa actuary, it is seen that degraded mangrove for ests exists in the region. The company should submit a plan/scheme for mangrove reg meration/compensatory development in consultation with the local Forest/Wildlife of ice. About 25% of the land acquired for the onshore terminal should be developed as green belt.
- 6. Adequate intrastructual facilities should be provided in offshore installations so that booms skimmers chemical dispersants could be deployed immediately in case of oil leakage from the installations such that the oil slick if any is contained within 500 meters of the installation and accordingly, action plan and facilities to check the oil slick beyond 500 meters should it provided.
- 7. The project proponent shall also comply with the environmental protection measures and safeguards recommended in the EIA/ EMP/ Risk Analysis report as well as the recommendations of the Public H raring Panel.

GENERAL CONDITIONS:

- 1. The project authority must stric by adhere to the stipulations made by the Central Government as part of any International Convention(s) of Merchant Shipping Act.
- 2. The project authorities must strictly adhere to the stipulations made by the Andhra Pradesh State Pollution Control B and and the State Covernment.
- 3. No further expansion or modifications in the proposal should be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made as the Ministry to assess the adequacy of conditions imposed and to add additional env commental protection measures required, if any
- 4. The project must strictly adhere o the regulations made by MARPOL conventior 1973/1978 for setting limits, for discharges from offshore oil gas explo ation and production activities.
- 5. The project authorities must strictly comply with the rules and regulations under Manufacture. Storage and Import of Hazardous chemicals Rules, 1980 as amended on 3rd October, 1994. Prior approved from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Sa by Inspectorate etc. must be obtained wherever applicable.
- 6. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of haza dous wastes in accordance with the Hazardous

State Pollution Contill collections/treatment/storage/disposal of | zardous wastes.

Wastes (Management & Handling) Ruld, 1989 wherever applicable. Authorization Board must obtained

7. The overall noise levels in and around t time) and 70 dBA (night time).

e rig area should be kept well within the standards (85 dBA) by providing noise putrol measures including acoustic hoods, silencers, enclosures etc. on all sources of hoise generation. The ambient noise levels should conform to the standards prescribe under EPA Rules, 1989 viz. 75 dBA (day

8. A separate suvironmental management 114 equipped with full fledged laboratory fu actions.

facilities must be set up to carry out the Vironmental management and monitoring

9. The project authorities will provide adequite funds both recurring and non recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds of provided should not be diverted for any other purpose.

10. The implementation of the project vis-a vis environmental action plans will be monitored by Ministry's Regional Offid Board/Central Pollution Control Board. should be submitted to the monitoring agent les.

at Bangalore State Pollution Control six monthly compliance status report

11. The Project Proponent should inform the jublic that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are ava lable with the State Pollution Control H lard/ Committee and may also be seen at Website of the Ministry and Forests at h p://www.envior.ni.:in. This should be advertised in at least two local newspapers hat are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.

The Ministry may revoke or suspend the clearante, if implementation of any of the above conditions is not satisfactory.

The Ministry reserves the right to stipulate addit onal conditions if found necessary. The company will implement these conditions in a till e bound manner.

The above conditions will be enforced, interdia under the provisions of the Water (Prevention & Control of Pollution) Act, 194, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public (Insurance) Liability Act. 1991 along with their amendments ind rules.

thaull (Dr.R. Warrier) Additional Director

Copy to:-

ution Control Boar Complex, East Arjun Nagar, Delhi-110032.

Parivesh Bhavar, CBD-cum-Office