

Annual Environment & Social Monitoring Report (April 2014 to March 2015)

Environmental and Social Performance Report
July 2015

IND: ACME EDF Solar Power Project

Prepared by ACME Solar Energy Pvt. Ltd.

The Environmental and Social Performance Report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. Your attention is directed to the "Terms of Use" section of this website.

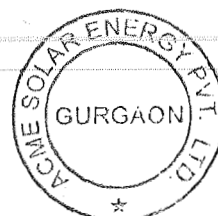


Annual Environment & Social Performance Report – ACME 5 x 20 MW Solar Power Plant, Bap

Period: April 2014 to March 2015

Submitted to: Asian Development Bank

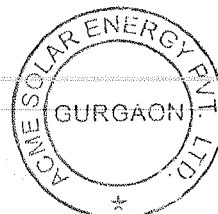
Prepared by: ACME Solar Energy Pvt. Ltd.



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ANNUAL ENVIRONMENTAL AND SOCIAL PERFORMANCE REPORT (ESPR)

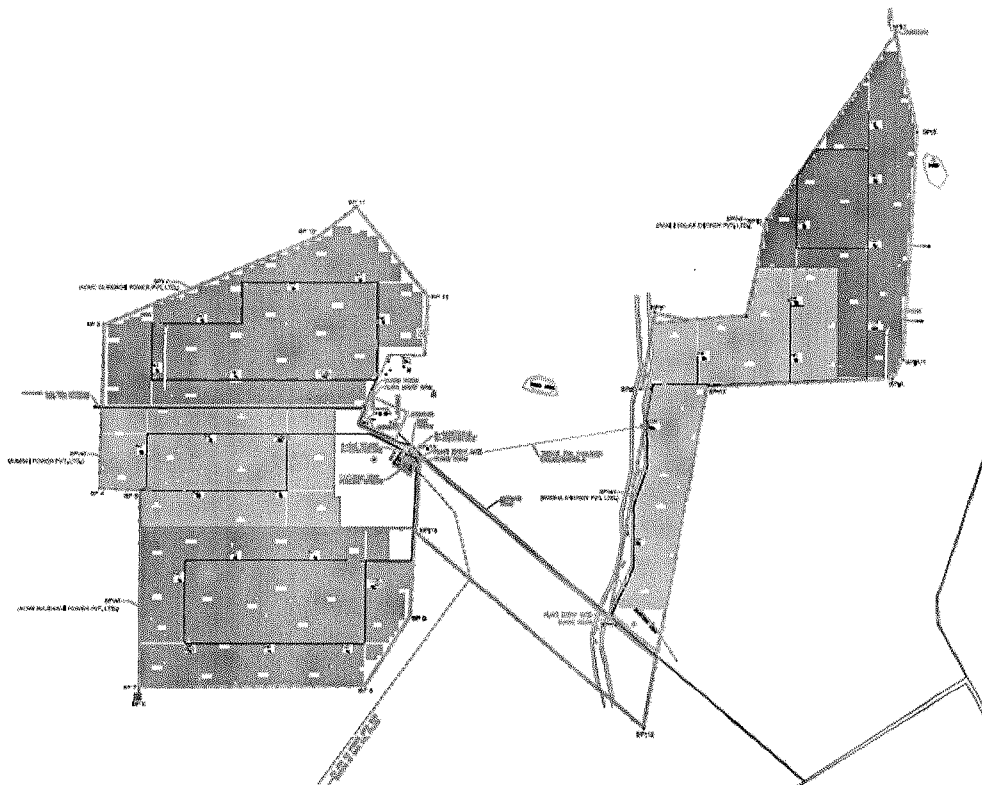
Reporting Period: **April 2014 to March 2015**

ESPR Completion Date: **July 2015**

1 Introduction

1.1 Background

ACME Gurgaon Power Private Limited (AGPPL), ACME Mumbai Power Private Limited (AMPPL), ACME Rajdhani Power Private Limited (ARPPL), Medha Energy Private Limited (MEPL) and Ranji Solar Energy Private Limited (RSEPL), are wholly owned subsidiary of the ACME Solar Energy Pvt. Ltd. (ASEPL) has been build, own and operate a solar power plant at Bap in Rajasthan. The project includes five units of 20 MW each, with total capacity of 100 MW. Map showing Five SPV's:



The project was started on January 2015 and achieved its commercial operation in May, 2015. ASEPL has sought financial loans from several international banks including the International Finance Corporation (IFC) and Asian Development Bank (ADB).

1.2 Objective

The purpose of this Annual Environmental & Social Performance Report (ESPR) is to report on ASEPL's compliance with the Environmental and Social Performance Requirements of

ADB (including implementation of the Environmental Management Plan and the Social Management Plan) and to assess any corrective actions implemented/proposed. The ESPR encompasses implementation by ASEPL of all phases of the Project. It includes:

- Contact information for responsible individuals
- Compliance by ASEPL with environmental and social requirements for the Project
- Environmental and social aspects of the Project under implementation
- Occupational health and safety performance and significant incidents
- Sustainable development initiatives and community relations

2 Environmental & Social Management

2.1 ESPR Preparer

Report prepared by: ACME Solar Energy Pvt. Ltd.

Telephone: 0124-7117000

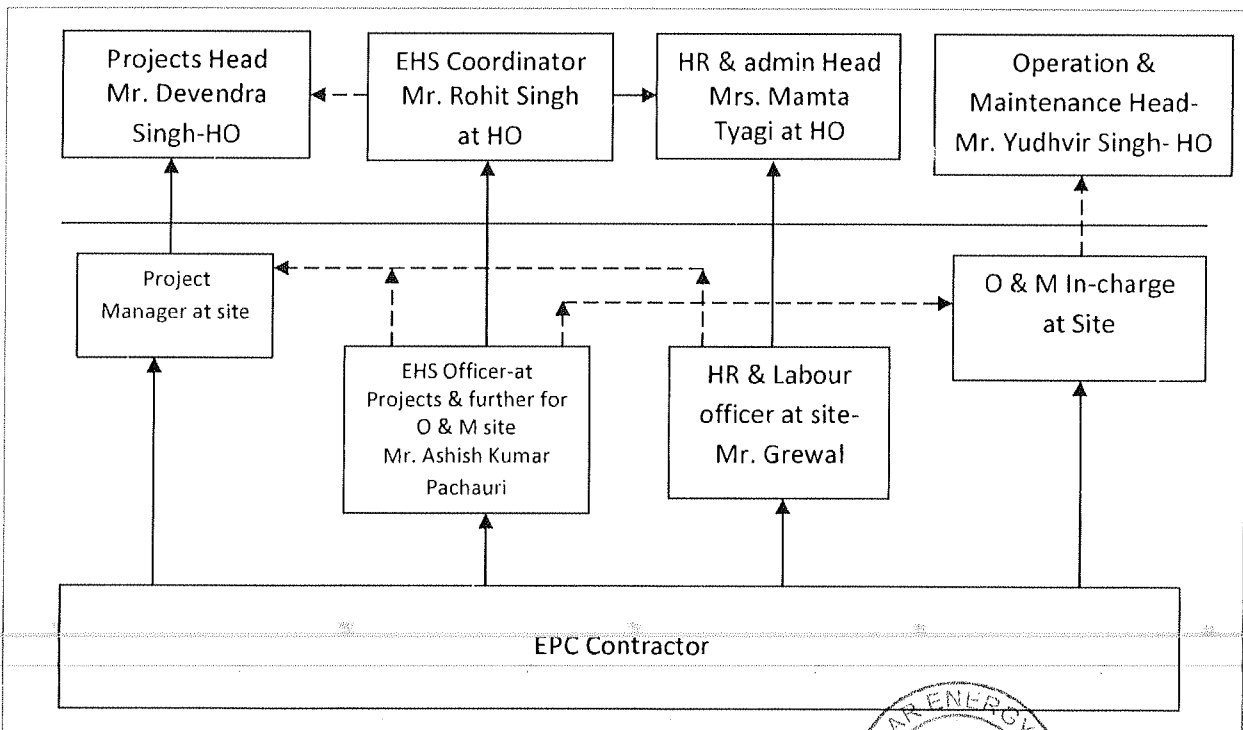
E-mail: rohit.ksingh@acme.in

Signature:

Report Date: July 2015

2.2 Environmental & Social Responsibility

The chart below indicates the current Social, Environmental, Occupational Health & Safety organization in ASEPL.



Currently, the on-site teams dedicated for Health & Safety, CSR activities, EMP implementation, HR & Labour aspects in ASEPL are marked in the organizational chart above. ASEPL has augmented its EHS staff strength through deployment of an EHS Head – EHS Coordinator and EHS Officers, which has led to the effective implementation of specific safety plans and procedures including close communication with the contractors in addressing project EHS risks. The above procedures are implemented through our ESMS manual formulated on 18th day of January 2015. Periodic visits are also being made by a doctor at the ASEPL First Aid Centre for health surveillance of the workers.

2.3 Environmental Management (EM) & Social Management (SM)

The following department of the ASEPL's on-site team is responsible for EM and SM implementation:

- **ASEPL Corporate Office:** Sustainability & SHE Group; HR - Land Acquisition, R&R, CSR
- **On-site team at Bap, Rajasthan:** Safety & Environment; HR – Labour & Health; CSR

As compared to the earlier projects, ASEPL has demonstrated considerable improvement in Environment, health and safety management system through development of well defined performance standards, specific procedures and guidelines (HIRA, Aspect & Impact etc), recruitment of additional staff etc to monitor EHS compliance and take necessary corrective actions. Additional thrust has been provided by ASEPL in formulating specific EHS plans and Emergency Response Plan and communicating the same to the project contractors for necessary implementation. Safety training and emergency drills are also being periodically undertaken by ASEPL and project contractors to enhance safety related awareness onsite. Adequate measures have also been taken to monitor worker health through health surveillance programs. Some of the trainings which have been done are electrical hazards, Waste segregation and its types etc

The incident reporting and contractor vigilance initiatives of ASEPL have been further strengthened in response to the fatalities and LTI's that have been recorded for this fiscal year. However, ASEPL as a preventive action could explore enhancing the engagement of contractors (particularly ABB contractor) and depute personnel with functional experience in electrical risk and hazards and are well aware of the risks related to the project activities that are under progress.

3 Compliance by ASEPL with the Environmental & Social Requirements

3.1 Compliance with Country Requirements

This section intends to describe the compliance of project operations with applicable national and local environmental, social, labor, occupational health and safety laws and regulations including the conditions included in the relevant consent/ clearance documents issued by Rajasthan Pollution Control Board, and any other Authority dealing with Environmental and Social Matters.

The project has received Consent to Establish from RSPCB valid from 28th day of October 2014 to 30th day of September 2015 for all SPV's (see in Appendix) and Labour license from Department of Labour, Rajasthan. And, further RSPCB exempted the same as per listed industries for the consent.



No such instances of inspection or review of ASEPL's environmental and safety compliance provisions for the project have been reported to be non-compliance in which significant fines have been imposed, operations closed down, or other actions related to Project performance have been taken. Preliminary assessment does not indicate any new or emerging environmental issues, such as pending regulations that could affect significantly the environmental, social or safety performance of Project operations. Preliminary assessment does not indicate any significant deviations / non-compliance with respect to national laws on social issues. No other regulatory compliances have been assessed to be required for implementing environmental prospects.

3.2 Compliance with Safeguard Requirements including the Environmental Management and the Social Management

This section intends to describe current compliance of the project with ADB's environmental & social policies and guidelines, Environmental & Social Management and present the key environmental & social performance indicators.

The current project activities for the period (April 2014 to March 2015) have been assessed with respect to ADB's environmental & social policies, guidelines and standards and EHSS compliance to the same has been provided below:

An earlier assessment of compliance of the project activities with the Environment Management reveals that most of the provisions of environment management are too generic to be actually implemented and tracked. Necessary efforts have been made by ASEPL to define the Environment Protection initiatives relevant to this project. ASEPL has made arrangement of sanitary system, scrap yard, etc and suppression fugitive emissions inside the plant.

Drinking water samples was found to below the IS: 10500 permissible limits for potable water. pH - 6.5 was recorded in the potable water samples analyzed. Report is show in Sr. No. 2 of Appendix

There was not significant impact observed on the air quality in the surroundings there was no sources of air pollution.

Activity record

ASEPL has established in-house regulations to safety management, environment management and Health management.

- ASEPL are complying following safety system at site:
 - Permit to work for all activities
 - Daily tool box talk through vendors as well as company safety officer too.
 - Hazard Identification and risk Assessment (HIRA) to identify the probable hazards and risks.

Annual Environmental & Social Performance Report (FY 14-15)—ASEPL Power Plant, Bap

- Inspection of safety tools & power operated tools
- Trainings and demo sessions for labours and vendors and employees too.
- Mock drills to analyze emergency preparedness
- Incident Management system.
- Safety Committee meeting to all vendors and address the non-compliance and issues.
- Safety Alerts and safety communications
- Safety audits and inspection on routine basis
- Vehicle inspection and their management.

➤ Safety Performance statistics of the site for FY'14-15, Table-1:

Table-1: Statistics of 5x20 MW Solar Power Project

Statistics of 5 x 20 MW Solar Power Project, Bap, Rajasthan	
Total Number of Staff	73
Total Number of Staff	1028
Total Manhours	341310
Number of first Aid cases	3
Number of Near mises	2
Number of fatal accident	0
Number of LTI	0
Number of tool box talk by Safety officer	191
Number of tool box talk by employee/engineer	12
Number of Health checkup conducted	01
Number of workers undergone Health checkup	1028
Safety meeting	6

- Site housekeeping is maintained, with all around the plant as there is one separate scrap yard for where we are having on site-segregation system for Non-hazardous waste. There was no hazardous waste content from any of the process. A person or vendors also appointed for the housekeeping.
- In FY'14-15, ASEPL has improved in view of Environment Health & Safety condition
- ASEPL has carried out following community related activities in the nearby villagers in FY'14-15, Table-2.

Table-2: Community Activities

CSR Activity	Location	Year	Beneficiaries
Provision of packaged drinking water facility	Near badi Sid	July 2014, continued initiative	Contractors, villagers are from badi sid, Gadna, Gurha
Provision of free medical camp	Badi Sid	16 th March, 2015	Contractor workers and community around Badi Sid specifically from Gadna, Gurha)
Awareness against usage of tobacco related materials like bidi, gutka, alcohol, khaini etc.	Badi Sid	Continued Initiative December 2014	Community around badi Sid 1. Gurha Gadna Badi Sid.
Community training programme for women on health issues	Badi Sid	Feb, 2015	Community around Badi Sid

Annual Environmental & Social Performance Report (FY 14-15)—ASEPL Power Plant, Bap

			1. Badi Sid 2. Gadna 3. Gurha
Distribution of books, stationeries and sweets to school children of Prathmik Vidhyalaya	Badi Sid	January, 2015	33 children from Prathmik Vidhyalaya, Badi Sid
Distribution of shawls and sarees to elderly women	Badi Sid, Rajasthan	January, 2015	8 elderly women from (Gadana, Gurha & Badi Sid)
Donation of funding a cancer patient's preliminary treatment	Badi Sid, Rajasthan	Feb, 2015	Mr. Bik Ram from Gadna
Employment to youths	Badi Sid, Rajasthan	Feb, 2015	Gadna, Gurha & Badi Sid
Plantation of trees	Project Site, Badi Sid, Rajasthan	20 th Feb, 2015 -60 plants planted 26 th March 2015- 30 plants planted and rest of the plant to be planted by August 2015 end.	Area around ACME Badi Sid plant site
Conservation of natural resources in the form of maintenance of natural drains for rain water harvesting around the Badi Sid site	Badi Sid, Rajasthan	March 2015	Community around Badi Sid site Village benefitted Badi Sid
Women Empowerment in initiating programmes like “ Bachat karna Zaroori Hai”, “Hum Do Hamara Ek”, “Beta Beti Ek Saman”, “Beti Bachao Beti padhao”. Health Diet; Importance of education for children; Healthy living Habits and “Save Water”	Gadna, Gurha & Badi sid Rajasthan	April 2014	Gadna, Gurha & Badi sid Rajasthan

4 Environmental and Social Progress of Project Underway

It is understood based on discussions, site observations and review of project progress documents that a time period of 12 months has elapsed since the project zero date of 1st April, 2014 and project was completed on schedule. Formalities for land allotment to ASEPL have been completed. NOC and other clearance has been get before the actual construction of the project. Major engineering is completed and all major packages were awarded on time. Construction is complete and now plant is in operation stage.

5 Grievance Redress Mechanism

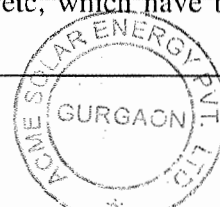
ASEPL has made a system for the grievance redressal for which a person also appointed to address the grievances. ASEPL appointed person open compliant box weekly which is placed near the main gate and maintain record of it. After the it routed for the redressal. ASEPL communicate the contact person for redressal of their compliant locally as well as among the Work force. Contacted person name and his contact number shall be pasted outside the premises of the plant.

6 Summary of Health, Social, Safety Performance and any Corrective Action

The project has been completed with 0.35 million man-hours, zero fatalities and zero Lost Time Incidents. The major safety performance indicators for the project, as calculated at the end of the reporting period are tabulated Table No. 1:

General assessment of safety performance, safe work practices and implementation of procedures, indicate reasonably good safety awareness among the contractors. The key health and safety issues identified during audits carried out for this year and necessary corrective action taken by ASEPL to mitigate the same have been referred below:

- Welfare conditions findings documented and communicated to the contractor for necessary corrective actions. However the close engagement of contractors in maximizing welfare condition needs to be strengthened. Drinking water, first aid and sanitary facilities has been provide throughout the plant and communicated location of the facilities. (Photographs are attached in Sr. No.3 of Appendix)
- Augmentation of HSE staff recommended has been compiled by ASEPL through recruitment of EHS Coordinator-Safety, Safety Stewards and Medical Officers.
- Gaps identified with respect to the integration and communication of ASEPL's safety plans, procedures and performance indicators with that of the project contractor (M/s ABB, M/s TATA, M/s Ganges International) have been complied with. ASEPL to take this ahead in demonstrating continual improvement in safety performance.
- Formulation and implementation of a Travel Safety Management Plan recommended for minimizing risks associated with travel of personnel and material movement. Appreciable initiatives have been undertaken by ASEPL in formulating such a plan, carrying out awareness exercise for ASEPL staff and imparting safe driving. Additional efforts are also required towards expediting the construction of staff colony to minimize travel safety risks to ASEPL staff.
- Mock drills for emergency response need to be carried out frequently by ASEPL and learning/findings from such exercise need to be shared to ensure effective response. These mock drill are on emergency, medical emergency etc, which have been done once in month.



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- Management of health and safety of workforce to be initiated through discontinuation of make-shift camps, expediting the operation of new labor camp and common cooking facilities at the camps. Although the new labor camp has been operational since March 2015 it was found to be occupied by other contractor labours.

7. Sustainable Development initiatives and Community relations

ASEPL have design their layout in such a way that topography would not disturb the natural flow of the land and ASEPL do not cut a single tree inside the plant (See in Sr. No.4 in Appendix) and maintaining them. ASEPL also provides the levys all around the plants.

8. Recommendation & Conclusion

The project has towards the end of reporting period, clocked 0.35 million manhours with no fatalities and zero LTI.

General assessment of safety performance safe work practices and implementation of procedures, indicate reasonably good safety awareness among the contractors.

All finding documented and communicated to all contractors for corrective actions. However, the close engagement of contractors in minimizing potential risk operational area needs to be strengthened.

Mock drills for emergency response need to carry out frequency by ASEPL learning/findings from such exercise need to be documented and share to ensure effective response.

ASEPL has to commit for the continual improvement through this project finding to be implemented in next upcoming project.

Name:

Date:

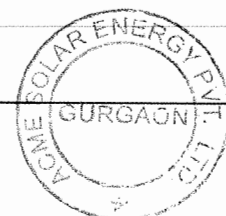
Position:

Phone:

Signature:

Email:

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APPENDIX

1. Consent to Establish of Bap, Rajasthan Project.



Regional Office Jodhpur
Rajasthan State Pollution Control Board
SPL-I, Phase-I, Basni Ind. Area, Jodhpur
Phone: 0291-2723225
www.rpcb.nic.in
Registered

File No : F(Tech)/Jodhpur(Baap)/7(1)/2014-2015/2080-2082 / 2324
Order No: 2014-2015/Jodhpur/2157 Dispatch Date: 22/12/2014
Unit Id : 57653

M/s ACME Rajdhani Power Pvt. Ltd.

Plot No. 152, Sector-44, GURGAON
District:Gurgaon

Sub: Consent to Establish under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application(s) for Consent to Establish dated 28/10/2014 and subsequent correspondence.

Sir,

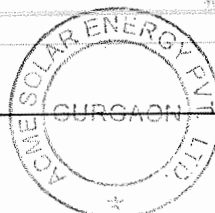
Consent to Establish under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, is hereby granted for your solar power pv-20mw plant situated / proposed at Khasra NO. 113 Badi Sid Tehsil:Baap District:Jodhpur, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from 28/10/2014 to 30/09/2017 or date of Commencement of production / commissioning of the project or activities whichever is earlier.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity / Capacity
SOLAR PV POWER PLANT	Activity	20.00 MW

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the Water Act and Air Act shall be obtained. This consent to establish shall not be treated as consent to operate.
- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

संक्षेप अधिकारी Page 1 of 5
राजस्थान प्रदूषण नियंत्रण मण्डल
जोधपुर





Regional Office Jodhpur
Rajasthan State Pollution Control Board
SPL-I, Phase-I, Basni Ind. Area, Jodhpur
Phone: 0291-2723225
www.rpcb.nic.in
Registered

File No : F(Tech)/Jodhpur(Baap)/4(1)/2014-2015/2077-2079 / 2-221

Order No: 2014-2015/Jodhpur/2156

Dispatch Date: 22/12/2014

Unit Id : 57663

M/s ACME Gurgaon Power Pvt. Ltd.

plot No. 152, Sector-44 , GURGAON

District:Gurgaon

Sub: Consent to Establish under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application(s) for Consent to Establish dated 28/10/2014 and subsequent correspondence.

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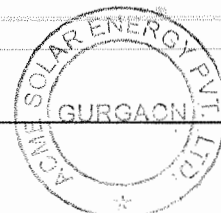
Consent to Establish under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, is hereby granted for your solar power-pv-20 mw plant situated / proposed at Khasra No. 113 Badi Sid Tehsil:Baap District:Jodhpur, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from 28/10/2014 to 30/09/2017 or date of Commencement of production / commissioning of the project or activities whichever is earlier.
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जननीय अधिकारी
Page 1 of 5
राजस्थान प्रदूषण नियंत्रण बोर्ड
जोधपुर





Regional Office Jodhpur
Rajasthan State Pollution Control Board
SPL-I, Phase-I, Basni Ind. Area, Jodhpur
Phone: 0291-2723225
www.rpcb.nic.in
Registered

File No : F(Tech)/Jodhpur(Baup)/5(1)/2014-2015/2074-2076 / 7320
Order No: 2014-2015/Jodhpur/2155
Unit Id : 57659

Dispatch Date: 22/12/2014

M/s ACME Mumbai Power Pvt. Ltd.
Plot No. 152, Sector-44, GURGAON
District:Gurgaon

Sub: Consent to Establish under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application(s) for Consent to Establish dated 28/10/2014 and subsequent correspondence.

Sir,

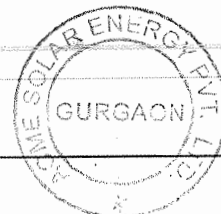
Consent to Establish under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, is hereby granted granted for your Solar Power-PV-20 MW plant situated / proposed at Khasra No. 113 & 121/2 Badi Sid Tehsil:Baap District:Jodhpur, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

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- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

Handwritten signature and stamp of the Regional Officer, Jodhpur. The stamp reads: क्षेत्रीय अधिकारी राजस्थान प्रदूषण नियंत्रण मण्डल जोधपुर





Regional Office Jodhpur
Rajasthan State Pollution Control Board
SPL-I, Phase-I, Basni Ind. Area, Jodhpur
Phone: 0291-2723225
www.rpcb.nic.in
Registered

File No : F(Tech)/Jodhpur(Baap)/7(1)/2014-2015/2080-2082 / 7324
Order No : 2014-2015/Jodhpur/2157 Dispatch Date: 22/12/2014
Unit Id : 57653 22/12/14

M/s ACME Rajdhani Power Pvt. Ltd.

Plot No. 152, Sector-44, , GURGAON

District:Gurgaon

Sub: Consent to Establish under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application(s) for Consent to Establish dated 28/10/2014 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, is hereby granted for your solar power pv-20 mw plant situated / proposed at Khasra NO. 113 Badi Sid Tehsil:Baap District:Jodhpur, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

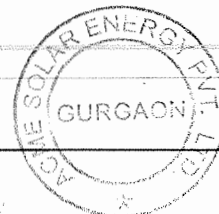
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हरीपृथ्वी प्राधिकारी
राजस्थान प्रदूषण नियंत्रण मण्डल
जोधपुर

Page 1 of 5





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Rajasthan State Pollution Control Board
SPL-I, Phase-I, Basni Ind. Area, Jodhpur
Phone: 0291-2723225
www.rpcb.nic.in
Registered

File No : F(Tech)/Jodhpur(Baap)/6(1)/2014-2015/2071-2073/7322

Order No: 2014-2015/Jodhpur/2154

Dispatch Date: 22/12/2014

Unit Id : 57656

M/s Ranji Solar Energy Pvt. Ltd.

Plot No. 152, Sector-44, GURGAON

District:Gurgaon

Sub: Consent to Establish under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

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Sir,

Consent to Establish under the provisions of section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, is hereby granted for your solar power-pv-20 MW plant situated / proposed at Khasra No. 124 Badi Sid Tehsil:Baap District:Jodhpur, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

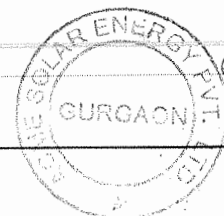
- 1 That this Consent to Establish is valid for a period from 28/10/2014 to 30/09/2017 or date of Commencement of production / commissioning of the project or activities whichever is earlier.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Type	Quantity / Capacity
SOLAR PV POWER PLANT	Activity	20.00 MW

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the Water Act and Air Act shall be obtained. This consent to establish shall not be treated as consent to operate.
- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

30

क्षेत्रीय अधिकारी
राजस्थान राज्य प्रदूषण नियंत्रण मण्डल
जोधपुर



2. Drinking water test monitoring report.



TEST REPORT

Date of Reporting	16/05/2015
Report No.	WT-42
Issued to	ACME Solar Pvt. Ltd., Village Badi Sid, Bap, Jodhpur, Rajasthan.
Nature of Sample	Drinking Water
Identification of Sample	Water taken through R.O.
Date of Sampling	02/05/2015
Date of receiving sample:	03/05/2015
Date of testing	03-16/05/2015
Sampled by	Party

RESULTS

S.No.	Parameter	Test Method	Results	Unit	Requirement as per IS 10500:2012	
					Acceptable Limit *	Permissible Limit*
1.	pH	IS 3025 P11 1983	6.50	--	6.5-8.5	No Relaxation
2.	Odour	IS 3025 P05 1983	Agreeable	---	Agreeable	Agreeable
3.	Taste	IS 3025 P08 1987	Agreeable	---	Agreeable	Agreeable
4.	Color	IS 3025 P04 1983	<1	Hazen	5	15
5.	Turbidity	IS 3025 P10 1984	<1	NTU	1	5
6.	Total Hardness	IS 3025 P21 2009	20.0	mg/l	200	600
7.	Total Dissolved Solids (TDS)	IS 3025 P15 1984	70	mg/l	500	2000
8.	Calcium as Ca	IS 3025 P40 1991	4.0	mg/l	75	200
9.	Magnesium as Mg	IS 3025 P46 1994	2.4	mg/l	30	100
10.	Total Alkalinity as CaCO ₃	IS 3025 P23 1986	20.0	mg/l	200	600
11.	Chloride as Cl	IS 3025 P32 1988	19.3	mg/l	250	1000
12.	Sulphate as SO ₄	IS 3025 P24 1986	2.2	mg/l	200	400
13.	Nitrate as NO ₃	IS 3025 P34 1988	1.3	mg/l	45	No Relaxation
14.	Fluoride as F	IS 3025 P60 2008	0.4	mg/l	1.0	1.5
15.	Iron as Fe	IS 3025 P53 2003	0.01	mg/l	0.3	No Relaxation
16.	Residual Free Chlorine	IS 3025 P26 1986	<0.01	mg/l	0.2	1

*All limits are maximum except Residual free chlorine & pH.

Manager (Q)
 Authorized Signatory

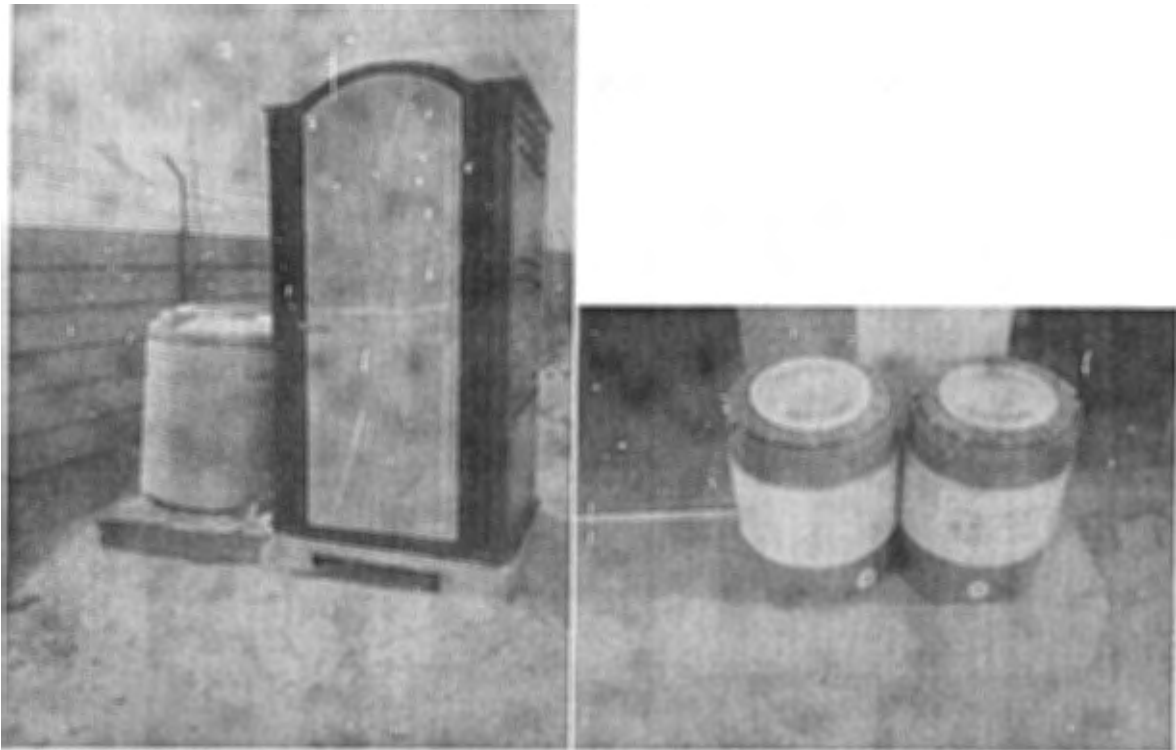
- 1- Test Report is limited to the invoice raised
- 2-Test Report cannot be reproduced in a part or as whole in court without permission.
- 3- Samples shall be retained for 4 weeks after test report submitted.



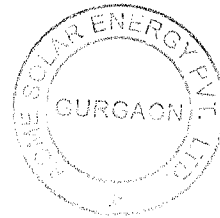
ECOSTEPS LABORATORY PRIVATE LIMITED
 D-79, Ground Floor, Sector- 06, Noida-201301, Uttar Pradesh, (India)
 Registered office: 403, 4th Floor, Nipun Tower, Plot No 15,
 Community Centre, Karkardooma, Delhi- 110092
 E-mail: lab@ecostepslab.com | Website: www.ecostepslab.com
 Tel: +91 1204164485, CIN- U93000DL2014PTC267663

ACME SOLAR ENERGY PRIVATE LIMITED
 GURGAON

3. Welfare facilities



4. Tree retain inside the plant.



Amal