State Level Environment Impact Assessment Authority, Rajasthan  
4, Institutional Area, Jhalana Doongri, Jaipur - 302004  
Phone: 0141-2705633, 2711329 Ext. 361  
M/s JCB India Ltd.  
23/7 Mathura Road,  
Ballabgarh Haryana – 121004.  

Sub:— E.C. for proposed New Manufacturing Facility for JCB Ltd., Mahindra World City, Village Bagru Khurd & Kalwara, Tehsil Sanganer Off Jaipur-Ajmer Road, District Jaipur Rajasthan- 302037.

Sir,  

This has reference to your application dt. 26.11.2012 seeking environmental Clearance for the above project under EIA Notification 2006 on the basis mandatory documents enclosed with the application viz. the questionnaire, EIA, EMP and additional clarifications furnished in response to the observation of the State Level Expert Committee Rajasthan, in its meeting held on 18/19.12.12.

2. **Brief details of the Project:**

<table>
<thead>
<tr>
<th>1. Category / Item no.(in Schedule):</th>
<th>8(a)B2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Location of Project</td>
<td>Village Bagru Khurd &amp; Kalwara, Tehsil Sanganer Off Jaipur- Ajmer Road, District Jaipur Rajasthan-302037.</td>
</tr>
<tr>
<td>3. Land Use</td>
<td></td>
</tr>
<tr>
<td>S. No.</td>
<td>Detail</td>
</tr>
<tr>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>1</td>
<td>Total Plot Area</td>
</tr>
<tr>
<td>2</td>
<td>Total Built up area</td>
</tr>
<tr>
<td>3</td>
<td>Proposed Road Area</td>
</tr>
<tr>
<td>4</td>
<td>Proposed Paved area</td>
</tr>
<tr>
<td>5</td>
<td>Proposed Car &amp; Scooter Parking</td>
</tr>
<tr>
<td>6</td>
<td>Proposed Machine Parking</td>
</tr>
<tr>
<td>7</td>
<td>Proposed Truck Parking</td>
</tr>
<tr>
<td>8</td>
<td>Proposed Bus Parking</td>
</tr>
<tr>
<td>9</td>
<td>Proposed Landscape area</td>
</tr>
<tr>
<td>10</td>
<td>Proposed Terrace Area</td>
</tr>
<tr>
<td>11</td>
<td>Permissible Ground Coverage</td>
</tr>
<tr>
<td>12</td>
<td>Proposed Ground Coverage</td>
</tr>
<tr>
<td>13</td>
<td>Permissible FAR</td>
</tr>
<tr>
<td>14</td>
<td>Proposed FAR</td>
</tr>
</tbody>
</table>

4. Project Details  

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Blocks</th>
<th>Proposed Ground Coverage (35.639%) (m²)</th>
<th>Proposed FAR (37.649%) (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fabrication Block -1</td>
<td>75,208.711</td>
<td>79,481.811</td>
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<tr>
<td>2</td>
<td>Block 2</td>
<td>16613.62</td>
<td>17913.99</td>
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<tr>
<td>3</td>
<td>Machine Cycle Test</td>
<td>7354.49</td>
<td>7354.49</td>
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<tr>
<td>4</td>
<td>ESS Block</td>
<td>1302.02</td>
<td>1423.784</td>
</tr>
<tr>
<td>5</td>
<td>W. Bridge</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>6</td>
<td>Security – 1</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>7</td>
<td>Security – 2</td>
<td>70</td>
<td>70</td>
</tr>
<tr>
<td>8</td>
<td>Security – 3</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>Pump Room (underground)</td>
<td>187.11</td>
<td>50</td>
</tr>
<tr>
<td>10</td>
<td>Scrap yard</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>Total</td>
<td>100,961.95</td>
<td>106,657.185</td>
<td></td>
</tr>
</tbody>
</table>

6. Water Requirement & Source  

| Project Phase | 50 KLD Construction  
16 KLD Domestic  
(45 L X 350 Workmen)  
Operation Phase 300 KLD  
Peak Operation 500 KLD  
Source of Water Supplied by MWCJ |
7. Fuel & Energy:-
Total Power demand 7 MVA
Source of Power DG sets (1250 kVA X 8 Nos.)
State Electricity Supply Board.

8. Environment Management Plan

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Items</th>
<th>Capital Cost</th>
<th>Recurring Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Effluent Treatment Plant</td>
<td>45.00</td>
<td>6.00</td>
</tr>
<tr>
<td>2</td>
<td>Rainwater Harvesting Pits</td>
<td>50.00</td>
<td>2.00</td>
</tr>
<tr>
<td>3</td>
<td>Solid waste collection Bins</td>
<td>4.00</td>
<td>--</td>
</tr>
<tr>
<td>4</td>
<td>Organic Waste Converter</td>
<td>12.00</td>
<td>2.00</td>
</tr>
<tr>
<td>5</td>
<td>Green Area Development</td>
<td>40.00</td>
<td>12.00</td>
</tr>
<tr>
<td>6</td>
<td>Solar Hot Water System</td>
<td>150</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Solar &amp; LED Lighting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>301.00</td>
<td>43.00</td>
</tr>
</tbody>
</table>

9. CSR Activities
Rs. 2.50 Crore to be spent over a period of 5 years.

10. STP
ETP capacity 150 KLD proposed to be installed

11. Green Plantation
Green belt to be develop in the area of 97,604.34 m² (34.45% of the Plot Area)

3. The SEAC Rajasthan after due considerations of the relevant documents submitted by the project proponent and additional clarifications/documents furnished to it have recommended for Environmental Clearance with certain stipulations. The SEIAA Rajasthan after considering the proposal and recommendations of the SEAC Rajasthan hereby accord Environmental Clearance to the project as per the provisions of Environmental Impact Assessment Notification 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

PART A: SPECIFIC CONDITIONS

I. CONSTRUCTION PHASE

i. “Consent to Establish” shall be obtained from RPCB before start of any construction work at the site.

ii. The PP shall obtain a “No objection certificate for height clearance for the envisaged level from the Airports Authority of India.

iii. No Mobile tower shall be installed.

iv. As envisaged, the PP shall earmark an amount of Rs. 301.00 Lacs as initial capital cost and Rs. 43.00 Lacs as annual recurring cost for implementing various environmental protection measures under the Environmental Management Plan.

v. A detail proposal and commitment for a sum of Rs. 2.50 Crore as regard CSR should be submitted which should be spent over a period of five years at the rate of Rs. 50.00 lacs per year. Detailed action plan of CSR activities shall be submitted by the PP to RSPCB/SEIAA at the time of applying for “Consent to Establish”.

vi. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry / unit / project proponent.

vii. For conservation of electricity and to reduce energy losses the management shall ensure that the electrical voltage is stepped down from 33 KV to 11 KV and distributed at this level and finally brought to 440 volts.

viii. The PP shall obtain approval of drawings of laying electrical lines from the concerned SE of RRVPN/ JVVNL.

ix. The minimum width of the roads shall be kept 9 meter wide, so as to have the free movement of fire brigade and there will be no blind end on the road.

x. Minimum width of the road (right of way) 15 to 18 meter wide, Height of the Building 15 to 30 Meter.

xi. Regular and periodic mock-up drills shall be undertaken by the fire department at least once in a year.

xii. NOC shall be obtained from National State Disaster Management Authority, wherever applicable.

xiii. The performance efficiency of the ETP should be ensured and daily log book of the ETP should be maintained and six month report will be submitted to the State Board.

xiv. The PP shall fulfill the requirements of energy regulatory commission.

xv. Feasibility of underground wiring may be examined and followed.

xvi. Open land may be earmarked for laying 132 KV line.

xvii. The Drains should be of adequate capacity and be lined till the final disposal points.

xviii. Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

xix. ETP capacity 150 KLD and Sewage discharge will be as ensure by the P.P.

xx. All required sanitary and hygienic measures shall be in place before starting construction activities. The safe disposal of waste water and solid waste generated during the Construction phase shall be ensured.

xxi. Adequate drinking water facilities shall be provided for construction workers at the site.
xxii Provisions shall be made for the supply of fuel (kerosene or cooking gas); utensils such as pressure cookers etc. to the laborers.
xxiii All the labours engaged for construction shall be screened for health and adequately treated before engaging them to work at the site.
xxiv For disinfection of waste water, appropriate tertiary treatment may be given.
xxv All the topsoil excavated during the construction shall be stored for use in horticulture/landscape development within the project site.
xxvi Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of the people, only in approved sites with the approval of competent authority.
xxvii Soil and ground water samples will be tested to ascertain that, there is no threat to the ground water quality by leaching of heavy metals and other toxic contaminants.
xxviii Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they do not leach into the ground water.
xxix The diesel generator sets to be used during the construction phase shall be low-sulphur-diesel type and shall conform to Environment (Protection) Rules for air and noise emission standards.
xxx Vehicles hired for bringing construction material and laborers to the site shall be in good conditions and shall conform to applicable air and noise emission standards and shall be operated during non-peak/approved hours.
xxxi Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase.
xxxii Fly ash shall be used as building material in the construction as per the provisions of Fly Ash notification of September, 1999 and amended as on August, 2003 (The above condition is applicable only if the project is within 100 km of Thermal Power Station).
xxxiii Ready mixed concrete shall be used in building construction.
xxxiv Storm water control and its re-use as per CGWA and BIS standards for various applications.
xxxv Water demand during construction shall be reduced by the use of pre-mixed concrete, curing agents and other best practices.
xxxvi Total domestic water requirement shall not exceed 500 KLD. The PP shall obtain prior permission from CGWA before withdrawing ground water through bore wells. Before allotment of the flats to the public, the P.P. shall ensure availability of required quantity of water from a legal source and disposal of sewage in an environmentally safe manner.
xxxvii Separation of grey and black water shall be done by the use of dual plumping line for separation of grey and black water.
xxviii Treatment of 100% grey water by decentralized treatment shall be done.
xxix Building Plan from the competent Authority shall be got approved and position cleared with reference to Master Plan.

 xl Adequate measures shall be taken to reduce air and noise pollution during construction keeping in mind CPCB norms on noise limits.
 xli A First Aid Room will be provided in the project both during construction and operation of the project.
 xlii Any hazardous waste generated during construction phase shall be disposed off as per applicable rules and norms with necessary authorization of the RPCB.
 xliii The approval of the competent authority shall be obtained for structural safety of the building due to earthquake, adequacy of fire fighting equipments, etc as per National Building Code 2005 including protection measures from lightening etc.
 xliv Regular supervision of the above and other measures for monitoring shall be in place throughout the construction phase, so as to avoid nuisance to the surroundings.
 xlv Guidelines issued by concerned Ministry for water scarce areas may be followed.
 xlv Composting of biodegradable waste shall be carried out within the campus.
 xlvii FAB sludge will be used for composting and compost will be used as manure.
 xlviii Provision of solar water heating/chilling/street lighting etc shall be explored.
 xlix Review and revise the requirement of DG set capacities for 100% power back up through optimization of power back up in case of power failure and emergency.

 1 During construction phase and Post construction / operation phase of the project, the proponent shall be responsible for implementation of EIA/EMP. Commitment of proponent in this regard shall be submitted to RPCB at the time of applying for CTE.
 ii The project proponent shall fulfill in letter and spirit, all the commitments given/submitted to the SEAC office.
 iii After construction and handing over of the project, the Resident’s Welfare Association or the Maintenance Agency shall be responsible for the EIA/EMP implementation. In this regard a suitable clause shall be put by the PP in the Maintenance Agreement.
P.P. shall submit conservation plan in respect to the National Bird-(pea-fowl) which is listed in schedule 1 of the Wildlife Protection Act 1972 with in 1 month of issue of E.C. to the RPCB, SEIAA and Forest Department.

Consistent regarding the sludge recycling with in ETP drawing and text of the design shall be ensured by the PP.

Drawing/ parking space should be as per the provision of National Building Code.

Affidavit from Consultant regarding eligibility for presenting the project under “Building and Construction” sector shall be submitted within one week of issue of the EC to SEIAA/RPCB.

The existing rain water harvesting structure on the footpath will be removed with prior consent of the JDA.

Orientation of lifts will be re-looked by the PP and provided as per National Building Code.

Fire escape staircase shall be pressurized by the PP.

In the STP the chlorination will be carried out using Sodium hypo chlorite.

Due care shall be taken for protection of Peafowl population.

Fire static water storage tank shall be provided in the 3rd basement levels.

BOD for the treated effluent from STP should be less then 20 mg/l.

Use of Sodium hypo chlorite instead of on line chlorination shall be ensured by the PP.

Green belt plantation to be develop in the area of 97,604.34 m2 (34.45% of the Plot Area).

II OPERATION PHASE

An independent expert shall certify the installation of the Effluent Treatment Plant (ETP) and a report in this regard shall be submitted to the RPCB, before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms & standards of the Rajasthan State Pollution Control Board.

For conservation of electricity and to reduce energy losses the management shall ensure that the electrical voltage is stepped down from 33 KV to 11 KV and distributed at this level and finally brought to 440 volts.

Rain Water harvesting (RWH) for roof top run-off and surface run-off, as planned shall be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The Rain Water Harvesting plan shall be as per GQI manual

The solid waste generated shall be properly collected & segregated before disposal to the City Municipal Facility. The in-vessel bio-conversion technique may be used for composting the organic waste.

Any hazardous waste including biomedical waste shall be disposed of as per applicable Rules & norms with necessary approvals of the Rajasthan State Pollution Control Board.

The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open space inside the plot shall be suitably landscaped and covered with vegetation of indigenous variety.

The D. G. sets to be operated with stack height as per RPCB norms.

Incremental pollution loads on the ambient air quality noise and water quality shall be periodically monitored after commissioning of the project.

Fixtures for showers, toilet flushing and drinking shall be of low flow either by use of aerators of pressure reducing devices or sensor based control.

Use of glass may be reduced by up to 40% to reduce the electricity consumption and load in air-conditioning. If necessary, use high quality double glass with special reflective coating windows.

Roof shall meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.

Opaque walls shall meet prescriptive requirement as per Energy Conservation Building Code for all air-conditioned spaces, whereas, for non-air-conditioned spaces, by use of appropriate thermal insulation material to fulfill the requirement.

Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating. A hybrid system or fully solar system for a portion of the apartments shall be provided.

Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking shall be fully internalized and no public space shall be utilized.

A Report on the energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology, R & U Factors etc. Quantify energy saving measures.

Proper system of channelizing excess storm water shall be provided.

The power factor shall be maintained near unity.

Trees and shrubs of local species shall be planted to allow habitat for birds with appropriate distance from the boundary.

Re-cycled water to match standards for cooling water system. MPN should be less than 5/100 ml in case of reuse of water of landscaping and flushing.

Adequate measures shall be taken to prevent odor from solid waste processing and STP.
The SEIIAA, Rajasthan reserve the right to add new conditions, modify/annual any condition and/or to revoke the clearance if implementation of any of the aforesaid condition/other stipulations imposed by competent authorities is not satisfactory. Six monthly compliance status reports on project along with implementation of environmental measures shall be submitted to MoEF, Regional Office, Lucknow, SEIIAA Rajasthan & RPCB.

PART - B. GENERAL CONDITIONS:

1. The environmental safeguards contained in Form 1-A shall be implemented in letter and spirit.
2. Six monthly monitoring reports shall be submitted to Rajasthan and Rajasthan State Pollution Control Board.
3. Officials of the RPCB, who would be monitoring the implementation of environmental safeguards, shall be given full cooperation facilities and documents/data by the PP during their inspection. A complete set of all the documents submitted to SEIIAA, Rajasthan shall be forwarded to the DoE, Rajasthan and Rajasthan State Pollution Control Board.
4. In case of any change(s) in the scope of the project, the PP requires a fresh appraisal by SEIIAA/SEAC, Rajasthan.
5. The SEIIAA/SEAC, Rajasthan reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act-1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
6. All the other statutory clearances such as the approvals for storage of diesel from the Chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as may be applicable, by PP from the competent authority.
7. The PP shall ensure advertising in at least two local newspapers widely circulated in the region, one of which shall be in vernacular language that, the project has been accorded environmental clearance and copies of the clearance letters are available with SEIIAA, Rajasthan and the Rajasthan State Pollution Control Board and may also be seen on the website of the Board at www.rpcb.nic.in. The advertisement shall be made within 7(seven) days from the date of issue of the environmental clearance and a copy shall also be forwarded to the SEIIAA, Rajasthan and Regional Office, Jaipur(S) of the Board.
8. These stipulations would also be enforced amongst the others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification’ 06.
9. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the proponent, if it was found that construction of the project has been started without obtaining environmental clearance.
10. Environment clearance is subject to final order of the Hon’ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition(Civil) No. 460 of the year 2004 as may be applicable to this project.

Yours faithfully

(Sankatha Prasad)
Member Secretary
SEIIAA Rajasthan
Copy to following for information and necessary action:

1. Secretary, Ministry of Environment and Forest, Govt., of India, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi.
2. Addl. Chief Secretary, Environment Department, Rajasthan, Jaipur.
3. Smt. Alka Kala, Chairman, SEIAA, Rajasthan, 69-A Bajaj Nagar Enclave, Jaipur
4. Shri Moti Lal Daima, Member, SEIAA, Rajasthan, 48/9, Moti Path, Mansarovar, Jaipur.
5. Member Secretary, Rajasthan State Pollution Control Board, Jaipur for information & necessary action and to display this sanction on the website of the Rajasthan State Pollution Control Board, Jaipur.
6. Secretary, SEAC Rajasthan.
7. The CCF, Regional Officer, Ministry of Environment & Forests, RO (CZ), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow- 226020.
8. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110003
9. Nodal Officer (Department Website), Department of Environment, Government of Rajasthan Jaipur with the request to upload the copy of this environmental clearance on the website.

M.S. SEIAA (Rajasthan)