JAYPEE CHURK INDUSTRIAL COMPLEX

ASSOCIATES LIMITED

Cement Division May 20, 2021

JCIC/ENV-EC/290/2021

To

The Director.

Regional Office (Central Region).

Ministry of Environment, Forest & Climate Change.

5th floor, kendriya Bhavan

Sector H- Aligani

Lucknow (UP) - 226024.

Sub: Submission of Six Monthly Compliance Report of Jaypee Churk Industrial Complex (A unit of Jaiprakash Associates Limited) at Village Churk, Robertsganj, Sonbhadra District (UP).

Ref: Environment Clearance granted vide letter no. J -13012/106/2009-IA.II (T) dated 18th December, 2012.

Dear Sir.

Please find enclosed herewith six monthly environment clearance compliance report of 4x60 MW Captive Thermal Power Plant & 1.0 MTPA Cement Grinding Unit of Jaypee Churk Industrial Complex (A unit of Jaiprakash Associates Limited) at Village Churk. Robertsguni. Sonbhadra District (UP) for the period of October-2020 to March-2021 in Soft (through e-mail) copy

Submitted for your kind information & acknowledge please.

Thanking you.

Yours faithfully.

For Jaypee Churk Industrial Complex,

(A Unit of Jaiprakash Associates Ltd.)

R. N. Yadav (Technical Head)

Encl: As above

CC:

1. CPCB, Zonal office (North), PICUP Bhawan, Vibhuti Khand, Gomu Nagar, Lucknow (CP)

2. Member Secretary, UPPCB, Vibhuti Khand, Gomti Nagar Lucknew (UP).

3. Regional Office, UPPCB, Robertsganj, Sonebhadra (UP).





SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE

Name of the Project: Jaypee Churk Industrial Complex

<u>Capacity</u>: 4*60 MW Captive Power Plant & 1.0 MTPA Cement Grinding Unit.

EC Letter No.: J -13012/106/ 2009-IA II (T) Dated 18.12.2012

Industry Code: 02UP301

Period of Compliance: October 2020 - March 2021

Submitted By
Jaypee Churk Industrial Complex
(A Unit of Jaiprakash Associates Limited)
Village: Churk, Tehsil: Robertsganj,
Sonbhadra District (UP)



| | | Court of Compliance |
|-----------|--|--|
| S. No. | Conditions | Status of Compliance |
| 1 | Vision document specifying prospective plan for the site shall be formulated and submitted to regional office of ministry within 6 months. | Environment vision document has been submitted to the Regional office. MoEF & CC vide our letter no JCIC/MoEF/2013/01 dated 14.08.2013. |
| 2 | Since the project proponent had started construction activity before obtaining Environment Clearance, the Uttar Pradesh Pollution Control Board has filed a Petition under section 15 of the Environment Protection Act,1986 in the Court of Chief Judicial Magistrate, Sonbhadra on 27/09/12 under Misc. Case No. 761/2012. The Company shall comply with the orders passed by the Court of Chief Judicial Magistrate, Sonbhadra. | The Case no. 761/2012 filed by Regional Officer, Uttar Pradesh Pollution Control Board (UPPCB) in the Court of Chief Judicial Magistrate. Sonbhadra is under trial. Further, apart from proceedings going on in CJM court. JAL had pursued the matter in Hon'ble court of Allahabad which passed and order dated 04.12.2012 directing CJM court to keep the matter in abeyance. |
| 3 | Environment Clearance is subject to obtaining prior clearance from the National Board of Wild Life. The environment clearance granted does not necessarily imply that wildlife clearance shall be granted to the project. The investment made in the project, if any, based on environmental clearance granted in anticipation of the clearance from wildlife angle shall entirely be at the cost and risk of the project proponent and Ministry of Environment Forests shall not be responsible in this regard in any manner. | The matter was considered in the Standing Committee of the National Board of Wild Life and referred to Impact assessment Division/ Forest Conservation Division in light of the report of WLI on the subject. Kindly Refer to the minutes of the meeting communicated to the Principal Secretary (Forest). Govt. of UP. Vide letter no. 3334 PSF/2092 dated 16.07.2012. These minutes were considered in the 58th Expert Appraisal Committee of FIA on-8/9.10.2012 and Environment Clearance was granted after considering all aspects, facts & recommendations of the Standing Committee of the National Board of Wildlife. |
| 4 | Wildlife Conservation Plan approved by the Office of the Competent Authority shall be implemented before commissioning of the plant. Status of implementation shall be submitted to Regional Office of the Ministry. | Wildlife Conservation Plan is prepared by Dr. Jamal A. Khan. Principal Investigator, Department of Wild Life Science, Aligarh Muslim University & submitted to the Regional office, MoEl & CC vide our letter no. JCIC/MoEF/2013/01 dated 14.08, 2013 & also to the office of the Chief Wildlife Warden, Govt. of UP. The Wild Life Conservation plan has been accepted by Principle Chief Conservator of Forests, Wildlife Uttar Pradesh vide their letter No. 1210/26-11 (JP) Lucknow, dated October 10, 2011. Implementation of the plan is required to be undertaken by State Forest Department through the Divisional Forest Officer of Kaimoor Wildlife Sanctuary and to be reviewed by committee appointed by State/Central Govt. Funds will be provided by |

| | | Jaiprakash Associates Limited and additional funding shall be sourced through schemes such as MNREGA. Request letter for formation of monitoring committee is already submitted to the Chief Wild Life Warden. Govt. of Uttar Pradesh Vide letter no. DCF/MoEF/2013 dated 12/08/2013. In this context the Chief Wildlife Warden. Lucknow (UP) has requested to the Director. MoEFCC. New Delhi for nomination of the member from MoEFCC for Monitoring Committee of Churk Wildlife Conservation Plan wide their letter no. /26-11 (JP Associates) Lucknow dated 15.10.2014. Further in this context, a request letter noJCIC/ENV/86/2016 dated 19.08.2016 has been submitted to Chief Wildlife Warden. Lucknow (UP) for constitution of a committee for implementation, monitoring & review of wild life conservation. |
|---|---|--|
| - | | Now, MoEF & CC has already notified the Eco-sensitive zone of 1 km all around the boundary of Kaimur Wildlife Sanctuary vide it's notification dated 20.03.2017. Further. Divisional Forest officer, Kaimur Wildlife division. Mirzapur, U.P., vide letter no. 2736/33-1 dated 24.03.2018 to RO UPPCB confirms that JCIC is located 1.8 KM away from the wild life sanctuary. |
| 5 | Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry. | Solar lights have been installed within the premises of the plant particularly at available roof tops, |
| 6 | Coal transportation to Plant site shall be undertaken by rail and no road transportation shall be permitted. | Agreed. Coal transportation to the Plant is being undertaken by rail. |
| 7 | Sulphur and ash contents in coal to be used in the project shall not exceed 0.6 % and 8% respectively at any given time. The Gross Calorific Value of the coal should not be less than 5300 Kcal/ Kg. In case of variation of coal quality at any point of time, fresh reference shall be made to the ministry for suitable amendments to environmental clearance condition wherever necessary. | Noted Sulphur and ash contents in coal are maintaining 0.6 % and <8% respectively. |
| 8 | Stack height of 125 m shall be provided with continuous online monitoring equipments for SO _x , NO _x and Particulate Matter. Exit velocity of flue gases shall not | Two Stacks of 130 mtr height have been constructed. Online Continuous Emission Monitoring System (CEMS) for continuous monitoring of SOx, NO, & Particulate Matter have also been installed at the stacks. Continuous online monitoring data of CEMS is being uploaded at the CPCB & UPPCB server. |

| | be less than 22m/sec. Mercury emissions from stack shall also be monitored on periodic basis. | 19-21 m/s. Mercury in staboratories report code Staboratories upper (UPPCBRO)/Sonebhadra 19.09.2018. One Stack of Grinding Uni(CEMS) for | stack emissic (UPPCB/MesT-070221-0) nding Unit nee 05.11.20 CB vide (UPPCBRC) of 70 mtr healt. Online Continuous | on is monito oEF & CC a I dated 15.02 having capa 18 after obt ref. No. '/Sonbhadra'.' O//CTO/Wate | perved to be in pred through N pproved labora 2,2021. It is repactly of 1.0 M aining Consentations 29980/UPPCB 2018 & 30 per/ Sonbhadra en constructed mission Monito of Particulate | oida Testing story) having sorted as Nil. ATPA is in to Operate /Sonebhadra 256/UPPCB /2018 dated |
|----|---|--|--|---|--|--|
| 9 | Space provision for installation of FGD shall be made. | arso been ms | been prov | ided for i | nstallation of | |
| 10 | Action Plan along with mitigation and management of fugitive emissions in and around coal handling plants and implementation schedule and monitoring mechanism for development of a thick three tier green belt all around plant boundary except in areas not feasible, shall be submitted to the RO of the Ministry. | Action plan belt develop MoEFCC v 14.08.2013. plant premisowned land) | to control forment had almost decour less de Green belt cours ses & towns along with the | agitive emiss eady been su etter no. Jo levelopment ship at Chur ne project wo | | ional office. 3.01 dated toing in the i (company |
| | The Company shall install online monitoring in the major stacks to monitor particulate emissions and monitoring Ambient Air Quality at the site. One monitoring station shall be installed adjoining the Wildlife Sanctuary to access the impacts. | The state of the s | THOME THE | y been instal CAAQMS h oring at the u | led in the stack as also been in nit. | s for online installed for |
| 12 | High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission from the proposed plant does not exceed 50 mg/Nm ³ . | High Efficiency Electrostatic Precipitators (ESPs) are installed at the stacks and designed to achieve particulate emissions below 50 mg/Nm ³ . Bag House is installed at CGU to achieve emission porms prescribed by CPCR & Model 8, CG | | | | |
| | | Average Maximum Minimum | 34.25 35.00 33.00 | Shutdown | Shutdown | 17.05 |
| 13 | Bag filters shall be installed in Cement Grinding Unit and dust | Agreed & co | implying. | talled in cem | ent Grinding Ur | it and due |

| | suppression system. | suppression system. |
|----|---|---|
| | Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and vulnerable dusty areas shall be provided. | Measures have been taken to control dust emissions from various sources are as under: Pulse jet type Bag Filters provided at all transfer points primary crusher, primary screen, secondary screen, fly asl silos & boiler bunkers. State of the art Dust Suppression System is installed at wagor tippler section to control fugitive emissions. It is working effectively. Water sprinkling systems are provided at all coal conveyo belts & coal storage yard and running effectively. Dusts collecting equipment's (Bag filters) as stated above are provided with an arrangement such that the collected material is completely recycled back into the process. Coal is stacked into stockpiles and provisions of wate sprinkling have also been made. Regular water sprinkling is also done in other unpaved area through pipelines & tankers for controlling the fugitive emissions. Coal shed has been constructed for storage of the coal at the coal handling plant. |
| 15 | An amount of Rs. 223.55 crores is earmarked for pollution control equipment/measures as committed by the project proponent. Additionally an amount of Rs. 7.0 crores per annum shall be earmarked for maintenance of pollution control equipment. | Agreed & Complying. The recurring expenditure for maintenance of pollution control equipments during October 2020 to March 2021 is Rs. 170.13 Lacs. |
| 16 | | used in manufacturing of Portland Pozzolana Cement (PPC) a our Chunar Cement Factory. Chunar & at Churk grinding unit JClC, Churk. Annual return of fly ash generation & consumption has been |
| 1 | No mine void filling or filling up of low lying areas with fly ash shall be undertaken. | Fly ash will not be used for mine void filling or filling up of lov |
| 1 | | fly ash generated from the plant is being conveyed pneumaticall from ESP hopper to ash silos in dry form for storage prior to it use. |
| - | 9 Fugitive Emission of fly asl | Fly ash is conveying pneumatically from ESP hopper to ash sile |

| - | | | | | | | |
|----|--|---|--|--|--|--|--|
| | shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local Panchayat. | mechanism has been provided at fly ash handling system to control fugitive emissions. Therefore, no impact of fly ash will be on agricultural or non-agricultural land. | | | | | |
| 20 | A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous | BRIT/RAL/D/879-86 | alytical Labe (Department ioactivity | oratory, Board of Atomic E test certifica | of Radiation and nergy, Govt, of te Ref. no. | | |
| | monitoring for radio activity and | Parameters | UOM | Coal | Fly ash | | |
| | heavy metals in coal and fly ash | U-238 | Bq/kg | 40.6±6.4 | 101.8±10.2 | | |
| | (including bottom ash) shall be | Th-232 | Bq/kg | 58.8±7.9 | 140.9±12.7 | | |
| | put in place. | Ra-226 | Bq/kg | MDL 1.23 | 101.7±10.3 | | |
| | | K-40 | Bq/kg | 145.9±10.4 | 306.9±6.3 | | |
| | | Heavy metal testing | in Coal & I | | g done through | | |
| 21 | Continuous monitoring of heavy | NABL accredited labo | oratory. | | | | |
| 22 | metals in and around the existing ash pond area shall be carried out by reputed institute like IIT, Chennai. | concrete silos for storage in dry form. Ash pond has not been constructed therefore, testing of heavy metals in & around ash pond is not applicable. | | | | | |
| | Air cooled condenser shall be installed. | Air cooled condensers | s has been ins | stalled. | 14. 44 | | |
| 23 | No water bodies including natural drainage system in the area shall be disturbed due to activities associated with setting up/operation of the power plant. | Agreed and complying | g. | | 1180/071 118 | | |
| 24 | COC of at least 5.0 shall be adopted. | COC is observed between | veen 3-5. | | | | |
| 25 | A well designed rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in plant premises. Action plan and road map for implementation shall be submitted to the Regional Office of Ministry. | the township. One percolation pit is also been constructed in the township for collection & recharging of the rain water | | | | | |
| 26 | Hydrogeology of area shall be reviewed annually from an institute/ organization of repute to asses impact of surface water and ground regime (especially around ash dyke). In case any deterioration of repute to assess impact of surface water and | Ash dyke/pond in the all the fly ash is being fly ash silos. Since the with the ground wate surface water regime is | collected pn ere is no like r therefore. | eumatically in clibood of ash co | dry form in the | | |

| _ | | | | | |
|------|--|--|--|---------------------------------|--|
| | ground regime (especially | | | | |
| | around ash dyke). In case any | | | | |
| | deterioration is observed specific | | | | |
| | mitigation measures shall be | | | | |
| | undertaken and reports/data of | | | | |
| | water quality monitored | | | | |
| | regularly and maintained shall be | | | | |
| | submitted to Regional Office of | | | | 。 其一种 |
| | the Ministry. | | | 51740016度高 | |
| 27 | Waste water generated from the | Wasta water | collected fro | on the plant is being | ng treated & all the |
| | plant shall be treated before | parameters o | re qualifying | the discharge limit | of CPCB/SPCB and |
| | discharge to comply limits | is fully roa | re quarrying | cuppression system | ns. ash quenching. |
| | prescribed by SPCB/CPCB. | horticulture | | suppression system | ns. astr quenening. |
| 28 | Green Belt consisting of three | | | activities are sta | arted in the plant |
| . 20 | tiers of plantations of native | breen belt | development | Churk and Churm | a (company owned |
| | | | | | |
| | species around plant and at least | | | | ntation done in the |
| | 50m width shall be raised. Tree | A Printer of the Control of the Cont | Total | k given as under: Nos. of Plant | Survival rate in |
| 1 | density shall be 2500 per ha. | Year | plantation | survived | Percentage |
| | with survival rate not less than | Onssins | 3566 | 3566. | 100% |
| | 80%. | Opening | | 1569 | 100% |
| | | 2013-14 | 1569 5237 | 4608 | 880 0 |
| | Editor and the same of the sam | | | | |
| | the a sentine term can | 2015-16 | 3831 | 3064 | 80° o |
| | | 2016-17 | 2250 . | 1800 | 80° ō |
| | | 2017-18 | 1596 | 12.76 | 80° a |
| | | 2018-19 | 2500 | 2075 | 83° o |
| | The second second second | 2019-20 | 2100 | 1718 | 82° n |
| | | 2020-21 | 4100 | 3512 | 85.66° o |
| | | Total | 26749 | 23188 | 87% |
| 29 | The project proponent shall also | To address t | he prime con | icern on developme | ent of neighboring |
| | adequately contribute in the | 1 | And the second s | as undertaken vario | The state of the s |
| | development of neighboring | | | and potable drinki | |
| | villages. Special package with | | | Jay Jyoti Inter Col | |
| | implementation schedule for free | Gurma are d | elivering qua | lity education to the | he children's from |
| | potable drinking water supply in | under privileg | ged sections of | of the society. To p | provide Health and |
| | the nearby villages and schools | medical servi | ces to the v | illagers a hospital | is running at site |
| | shall be undertaken in a time | | | bile medical van & | |
| | bound manner. | | | f cost to them. | |
| 30 | An amount of Rs. 5.0 Crores be | CSR activities | s are being ca | rried out by Jaiprak | ash Sewa Sansthan |
| | earmarked as one time capital | & separate bu | dget has been | earmarked for the | same Rs 11.5 Jacs |
| | cost for CSR programme. | have been inc | urred towards | s CSR for the perio | d October 2020 to |
| | Subsequently a recurring | March 2021. | | The party | a verover 2020 to |
| | expenditure of Rs. 1.0 Crores per | | | | |
| | annum till the life of the plant | | | | |
| | shall be earmarked as recurring | | | | |
| | expenditure for CSR activities. | | | | |
| | Details of the activities to be | | | | |
| | | | | | |
| | undertaken shall be submitted | | | | |
| | within one month along with | | | | |
| | road map for implementation. | | | - 3 300 + 15 | |
| | | | | 1 | |

| 1 | The treated effluents conforming prescribed standards only shall circulated and reuse within the Arrangements shall be made that of | be re- | Treated effluent confirming to the prescribed standards is re-circulated & reused in sprinkling at coal handling plant for dust suppression. No effluent is getting mixed with storm water. |
|-----------|--|--|---|
| S. No. | Conditions | | Compliance Status |
| | Organization. Organization. | a selection | |
| 34 | An Environment Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the Cell shall | experien | te Environmental Management cell has been set up with qualified & experienced officer having appropriate ce in environment management who reports directly to of the Organization. |
| 33 | It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest govt. institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time. | Departin | nudit is being carried out by Prof. A.K. Joshi. Sociology nent of Banaras Hindu University. Study report will be ed to the regional office of MOEF & CC on completion. |
| 32 | expenses for green belt as committed. CSR scheme should address Public Hearing issues and shall be undertaken based on need based assessment in and around the villages within 5.0 km of the site and in constant consultation with the village panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. | Social a dept. B being ca with the hearing undertal being pr | audit is being carried out by Prof A.K. Joshi. Sociology HU. Need based assessment is also part of the audit & is arried out in and around 5.0 km of the site in consultation e village panchayat. CSR activities addressing the public issues mainly health services and education is being ken. Vocational trainings for local employable youths are rovided at ITI. Dalla. |
| 31 | Additionally as committed by the project proponent Rs 3.0 Crores shall be earmarked for development of ITI at Dalla for imparting training for local people in craft for employment. An amount of Rs 7.0 Crore shall be earmarked for development of green belt and Rs 80 Lakhs per annum shall be kept as recurring expenses. for green belt as | Work of nursery species laes had period of | on various courses & modules for local peoples on greenbelt development is under progress and in house has been set up for development of saplings. Nativare being preferred for greenbelt development. Rs. 4.2; we been incurred towards green belt development for the October 2020 to March 2021. |

| | and storm water do not get mixed. | Avg. ETP a | nalysis res | ults for | the peri | od of O | et-20 to |
|---|---|--|--|--|--|--|--|
| | | Mar-21 are | | | | | |
| | | Parameter | | | | | - |
| | | S | pH | TSS | BOD | COD | 0&G |
| | | Standards | 6.5 to 8.5 | 100 | 30 | 250 | 10 |
| | | Unit | 12.17 | | m | | |
| | | Average | 8.08 | 12.07 | 18.5 | 61.3 | 1.62 |
| | | Maximum | 8.18 | 15.0 | 20 | 68 | 1.90 |
| | | Minimum | 7.97 | 10.5 | 17.00 | 52.00 | 1.20 |
| 2 | A sewage treatment plant shall be provided | Sewage Tre | | la contract of | | | - |
| | (as applicable) and the treated sewage shall | installed and | | | | | |
| | be used for raising greenbelt/plantation. | | | | | | AT ETCC |
| | ased for faising greenbert plantation. | belt development within the plant premises. STP analysis results for the period of Oct-20 to N | | | | | |
| | | | | r the per | 100 OF C |)C(-20 (0 | Mai- |
| | | are as under | - | | | | |
| | | Parameters | pH | TSS | BOD | COD | 0&6 |
| | | Standards | 6.5 to 8.5 | 100 | 30 | 250 | 10 |
| | | Unit | 1 - 1 - 4 11 | | m | 9 | |
| | | Average | 7.63 | 37 | 16.83 | 43.83 | 3 16 |
| | | Maximum | 7.80 | 43 | 18 | 48 | 3.4 |
| | | Minimum | 7.4 | -29 | 16 | 32 | 2.9 |
| 3 | Adequate safety measures shall be provided | Safety meas | ures are be | ing take | n at coa | l handlir | ng plan |
| | in the plant area to check/minimize | Adequate Fi | | | | | |
| | spontaneous fires in coal yard, especially | & Fire Exti | | | | | |
| | | handling pl | | | | | |
| | during summer season. Copy of these | | | | | | |
| | | available wi | | | | | |
| | measures with full details along with location plant lay out shall be submitted to the Ministry as well as to the regional | all necessa | ry contro | equir | ments. | CODY | 01 1 |
| | | all necessary control equipments. Copy of the measures & layout has already been submitted to the | | | | | |
| | | | | | | | |
| | | | layout has | alread | been s | | |
| 4 | the Ministry as well as to the regional office of the ministry. | measures & Regional Of | layout has fice of the | already Ministry | y been s | ubmitte | d to th |
| 4 | the Ministry as well as to the regional office of the ministry. Storage facilities for auxiliary liquid fuel | measures & Regional Of Approval/lic | layout has fice of the ense for d | s already Ministry esign of | y been s installa | tions & | d to the |
| 4 | the Ministry as well as to the regional office of the ministry. Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in | measures & Regional Of Approval/lic of LDO/HF | layout has fice of the ense for d | s already Ministry esign of has bee | y been s installa en taker | tions & | storag |
| 4 | the Ministry as well as to the regional office of the ministry. Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with | measures & Regional Of Approval/lic of LDO/HF Nagpur. LDO | layout has fice of the ense for de O/LSHS O/HFO/LS | Ministry esign of has bee HS prop | y been s installa en taken berly sto | tions & n from red in de | stora; PESO |
| 4 | the Ministry as well as to the regional office of the ministry. Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. | measures & Regional Of Approval/lic of LDO/HF Nagpur. LD0 area. It is be | layout has fice of the ense for de CO/LSHS O/HFO/LS ing ensured | Ministry Ministry esign of has bee HS prop d that su | y been s installa en taker berly sto | tions & n from red in depontent sh | storag PESO edicate |
| 4 | the Ministry as well as to the regional office of the ministry. Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not | measures & Regional Of Approval/lic of LDO/HF Nagpur. LDO area. It is be less than 0. | layout has fice of the ense for de FO/LSHS O/HFO/LS ing ensured 5% in liqu | s already Ministry esign of has bee HS prop d that su tid fuel. | installa installa en taker perly sto ilphur co An On | tions & n from red in depontent sh | storag PES0 edicate nould bergeno |
| 4 | the Ministry as well as to the regional office of the ministry. Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with Department of Explosives. Nagpur. Sulphur content in the liquid fuel will not exceed 0.5 %. Disaster Management Plan | measures & Regional Of Approval/lic of LDO/HF Nagpur. LDo area. It is be less than 0. Plan includ | layout has fice of the ense for de O/LSHS O/HFO/LS ing ensured 5% in liquing disaste | s already Ministry esign of has bee HS prop d that su aid fuel. | installa installa en taken perly sto ilphur co An On gement | tions & n from red in deportent sh site Em | stora; PLS0 edicate nould tergene |
| 4 | the Ministry as well as to the regional office of the ministry. Storage facilities for auxiliary liquid fuel such as LDO/HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5 %. Disaster Management Plan shall be prepared to meet any eventually in | measures & Regional Of Approval/lic of LDO/HF Nagpur. LDo area. It is be less than 0. Plan includ prepared & | layout has fice of the ense for d fO/LSHS O/HFO/LS ing ensured 5% in liquiding disaste implemente | Ministry esign of has beed that suid fuel, er mana | installa installa en taker berly sto allphur ed An On gement ring all | tions & n from red in depontent shape the plan has the even | storag PES0 edicate nould bergene |
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| | audiometric record and for treatment for | Turbine | Floor | | | 77,7 | | |
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| | any hearing loss including shifting to non | Boiler / | Area | | | 77.4 | | |
| | noisy/less noisy areas. | Boiler F | eed Pump | Area | | 72.9 | 7 | |
| | treas detay dreas. | DM Plant 68.18 | | | | | | |
| | | Coal Handling Plant 68.83 | | | | | | |
| | | Audiometric test has been conducted for employees | | | | | | |
| | | | | | | | uproyees | |
| 7 | Regular Monitoring of ambient air ground | WOLKERS | Working | g in high n | orsy areas | S. | | |
| | level concentration of SO No. By in | Regular | ambient | t air monit | oring is b | eing car | ried out | |
| | level concentration of SO ₂ , NO ₃ , PM2.5 & | house a | s well as | MoEF ap | proved la | boratory | & recor | |
| | PM10 and Hg shall be carried out in the | are mai | ntained. | Monitorin | e reports | are und | ated on t | |
| | impact zone and records maintained. If at | compan | v's web | site. Avg | monito | ring do | to for t | |
| | any stage these levels are found to exceed | period (| October 2 | 2020 to Ma | . HOHIO | ing da | til IOI I | |
| | the prescribed limits, necessary control | period | 70101001 _ | 020 10 101 | HCH 2021 | is given | as under | |
| | measures shall be provided immediately. | | | | | | | |
| | The location of monitoring stations and | 1 . | | Near | Near | Near | Near | |
| | frequency of monitoring stations and | Lo | cations | Main | Store | Rear | Dispatch | |
| | frequency of monitoring shall be submitted | Gate | | | Gate | Gate | | |
| | to the Regional office of Ministry. The data | Par | Parameter | | (115 | (m) | | |
| | shall also be put on the website of the | PM ₁₀ | T | | | | | |
| | company. | FIVI ₁₀ | Avg. | 62.04 | 58.63 | 59.87 | 62.34 | |
| | | | Max | 63.03 | 59.51 | 60.23 | 62.68 | |
| | | DA40.5 | Min | 61.60 | 58.21 | 59.67 | 62.03 | |
| | | PM2.5 | Avg. | 28.03 | 26.15 | 26.93 | 28.84 | |
| | | | Max | 28.88 | 26.87 | 27.71 | 29.80 | |
| | | 00 | Min | 26.80 | 25.59 | 26.06 | 27.08 | |
| | | SO ₂ | Avg. | 15.50 | 15.02 | 16.46 | 16.07 | |
| | | | Max | 16.20 | 15.80 | 17.25 | 16.84 | |
| | | | Min | 15.09 | 14.18 | 15.61 | | |
| | | NO. | - | 1.1.(17) | 14.10 | 10.01 | - 3 | |
| | | NO, | Avg. | 11.66 | 11.26 | | 15.27 | |
| | | NO. | Avg. Max | | 11.26 | 12.71 | 12.28 | |
| 8 | Provision shall be made for housing of | | Avg. Max Min | 11.66 11.83 11.52 | 11.26 11.43 11.12 | 12.71 12.88 12.57 | | |
| 8 | Provision shall be made for housing of construction labour (as applicable) 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 project. | Nécessa mobile facility construc | Avg. Max Min ary infra toilets. etc. vetion of the | astructure safe drin was provhe project. | 11.26 11.43 11.12 i.e. ter king wa | 12.71 12.88 12.57 | 12.28 12.47 12.16 housing | |
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| | Parisad/ Municipal Corporation, urban local body and the local NGO, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent. | |
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| 11 | The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective zonal office of CPCB and SPCB. The criteria pollutant levels namely; SPM, RSPM (PM 2.5 & PM 10), SO ₂ , NO _X (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain. | submitted to MoEF. CPCB & SPCB and the same is also uploaded on Company's website. Regular monitoring of PM10. PM2.5. SO ₂ . NO ₃ and stack emissions is being carried out and records are maintained. Monitoring data is being displayed at the main gate of the company in the public domain regularly. |
| 12 | The environment statement for each financial year ending 31st march in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective regional offices of the ministry by e-mail. | Environment statement has been submitted to UPPCB vide letter no JCIC/ENV/UPPCB-ES/268/2020 & 269/2020 dated 12 September. 2020 & it is also uploaded at company's website. |
| 13 | The project proponent shall submit six monthly reports on the status of the implementation of stipulated environmental safeguards to the Ministry of Environment and Forest, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by email to the regional office, Ministry of Environment and Forests. | Six monthly compliance reports are being submitted to MoEF. CPCB & UPPCB on regular basis. Last compliance report submitted by e-mail on November 07, 2020 vides our letter No. JCIC/ENV-I-C 272-2020 for the period of April 2020 to September 2020. It is also uploaded on the company's website: http://www.jalindia.com . Copy of the same is being submitted by e-mail to the regional office. Ministry of Environment and Forests. |
| 14 | Regional office of Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report and Environment Management Plan along with the additional information submitted from | Agreed & Complying. Regular monitoring of PM10, PM2.5, SO ₂ , NO ₃ and stack emissions is being carried out and records are maintained. Monitoring data is being displayed at the main gate of the company in the public domain regularly. |

| | time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will upload the compliance status in the website and up-date the same from time to time at least six-monthly basis. Criteria pollutants levels including NO _x (from stack and ambient air) shall be displayed at the main gate of power plant. | |
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| 15 | Separate funds shall be allocated for implementation of environmental protection measures along with item wise break-up. This cost shall be included as part of project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year wise expenditure should be reported to the Ministry. | Separate funds for implementation of environmental protection measures have been allocated as part of the project cost. |
| 16 | The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and financial approval of the project by the project by the Concerned authorities and the dates of start of land development work and commissioning of plant. | Agreed & Complying. |
| 17 | Full cooperation shall be extended to the Scientists/Officers from the Ministry/Regional Office of the ministry/CPCB/SPCB who could be monitoring the compliance of environmental status. | Agreed & Complying. |

Status of conditions stipulated in the Environment Clearance of Jaypee Churk Industrial Complex, Churk for the period October 2020 to March 2021.

Yours faithfully,

For Jaypee Churk Industrial Complex,

(A Unit of Jaiprakash Associates Ltd.)

R. N. Yadav (Technical Head)