

U.P. Pollution Control Board

CONSENT ORDER

Ref No. - 17792/UPPCB/Sonebhadra(UPPCBRO)/CTO/air/SONBHADRA/2018

Dated : 12/04/2018

To,

M/S KN BHANDARI  
Hindalco Industries Limited(Renusagar Power Div.)  
RENUSAGAR  
SONBHADRA

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. Hindalco Industries Limited(Renusagar Power Div.)

Reference Application No. 842193

Dated : 12/04/2018

1. With reference to the application for consent for emission of air pollutants from the plant of M/s Hindalco Industries Limited(Renusagar Power Div.) under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 01/01/2018 to 31/12/2019 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.

This consent is being issued with the permission of competent authority .

Enclosed : As above  
(condition of consent):

Copy to: Regional Officer, U.P. Pollution Control Board, Sonbhadra with direction to send the compliance report of consent conditions on quarterly basis.



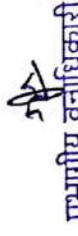
For Hindalco Industries Limited

  
Authorized Signatory

क्षेत्रीय वनाधिकारी  
पिपरी रेंज  
रेनुकूट वन प्रभाग, रेनुकूट, सोनभद्र

For and on behalf of U.P. Pollution Control Board  
TANZAR ULLAH KHAN  
Digitally signed by TANZAR ULLAH KHAN  
Date: 2018.04.12 18:18:43 +0530'  
Chief Environmental Officer (circle-2)

TANZAR ULLAH KHAN  
Digitally signed by TANZAR ULLAH KHAN  
Date: 2018.04.12 18:18:57 +0530'  
Chief Environmental Officer (circle-2)

  
प्रभागीय वनाधिकारी  
रेनुकूट वन प्रभाग  
रेनुकूट - सोनभद्र

सहायक वन सभ्यक/प्रभारी  
अनपरा रेंज-  
रेनुकूट वन प्रभाग-सोनभद्र

**U.P. Pollution Control Board**

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Dated : 12/04/2018

**CONDITIONS OF CONSENT**

1. This consent is valid only for the approved production capacity of Power Generation-840 MW.
- 2(a). The maximum rate of emission of flue gas should not be more than the emission norms for the stacks.

Air Pollution Source Details						
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height	
1	02 No. Boilers 275 TPH each attached to 80x2 MW turbine	Coal	01	Particulate Matter	100 meter from ground level with ESP	
2	02 No. Boilers 302 TPH each attached to 83x2 MW turbine	Coal	02	Particulate Matter	100 meter from ground level with ESP	
3	Spare Boiler-275 TPH	Coal	03	Particulate Matter	100 meter from ground level with ESP	
4	01 Boiler-275 TPH attached to 80 MW turbine	Coal	04	Particulate Matter	100 meter from ground level with ESP	
5	02 No. Boilers 290 TPH each attached to 83x2 MW turbine	Coal	05	Particulate Matter	110 meter from ground level with ESP	
6	01 Boiler-290 TPH attached to 88 MW turbine	Coal	06	Particulate Matter	110 meter from ground level with ESP	
7	02 No. Boilers 320 TPH each attached to 90x2 MW turbine	Coal	07	Particulate Matter	130 meter from ground level with ESP	

2(b). The emissions by various stacks into the environment should be as per the norms of the Board .



For Hindalco Industries Limited

*[Signature]*  
Authorized Signatory

*[Signature]*  
क्षेत्रीय वनाधिकारी  
विपरी रंज

रेनुकूट वन प्रभाग, रेनुकूट, सोनमद्र

*[Signature]*  
प्रभागीय वनाधिकारी  
रेनुकूट वन प्रभाग  
रेनुकूट - सोनमद्र

सहायक वन सहायक/प्रभारी  
अनघरा रंज-  
रेनुकूट वन प्रभाग-सोनमद्र

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	01	Particulate Matter	100 mg/Nm <sup>3</sup>
2	01	Sulphur Dioxide	600 mg/Nm <sup>3</sup>
3	01	Oxides of Nitrogen	600 mg/Nm <sup>3</sup>
4	02	Particulate Matter	100 mg/Nm <sup>3</sup>
5	02	Sulphur Dioxide	600 mg/Nm <sup>3</sup>
6	02	Oxides of Nitrogen	600 mg/Nm <sup>3</sup>
7	03	Particulate Matter	100 mg/Nm <sup>3</sup>
8	03	Sulphur Dioxide	600 mg/Nm <sup>3</sup>
9	03	Oxides of Nitrogen	600 mg/Nm <sup>3</sup>
10	04	Particulate Matter	100 mg/Nm <sup>3</sup>
11	04	Sulphur Dioxide	600 mg/Nm <sup>3</sup>
12	04	Oxides of Nitrogen	600 mg/Nm <sup>3</sup>
13	05	Particulate Matter	100 mg/Nm <sup>3</sup>
14	05	Sulphur Dioxide	600 mg/Nm <sup>3</sup>
15	05	Oxides of Nitrogen	600 mg/Nm <sup>3</sup>
16	06	Particulate Matter	100 mg/Nm <sup>3</sup>
17	06	Sulphur Dioxide	600 mg/Nm <sup>3</sup>
18	06	Oxides of Nitrogen	600 mg/Nm <sup>3</sup>
19	07	Particulate Matter	100 mg/Nm <sup>3</sup>
20	07	Sulphur Dioxide	600 mg/Nm <sup>3</sup>
21	07	Oxides of Nitrogen	600 mg/Nm <sup>3</sup>

- Quantity of other pollutants should also be as per the norms prescribed by the Board/MOEF & CC/or otherwise mandatory.
- The equipment for air pollution control system and monitoring, as proposed by the industry and approved by the Board should be installed in their premises itself.
- The modification or installation in the existing pollution control equipments should be done only by prior approval of Board.
- The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants should be in accordance with the standards prescribed by the Board/MoEF & CC/or otherwise mandatory.
- Unit should do provisions for fugitive emissions chimney/stack as per the norms of the Board/MOEF & CC/or otherwise mandatory.
- The unit should submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report should be submitted.

#### Specific Conditions:



For Hindalco Industries Limited

  
Authorized Signatory

  
R. V. R. R.

क्षेत्रीय वनाधिकारी  
मिपरी में  
सहायक वन सारक्षक/प्रभारी  
अनपरा रैन-

रेनुकूट वन प्रभाग, उदर, का. रेनुकूट वन प्रभाग-सोनभद्र

प्रभागीय वनाधिकारी  
रेनुकूट वन प्रभाग, रेनुकूट  
सोनभद्र (उ.प्र.)

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1. This consent is valid for power generation -840 MW.
2. The industry shall comply with the Stack emission standards notified by MoEF&CC vide notification dated 07-12-2015 and Ambient air quality standard 2009.
3. The industry shall operate and maintain Online Continuous Emission Monitoring System effectively and data shall be transmitted to CPCB and UPPCB server. OCEMS system should be calibrated through recognized agency and calibration certificate should be submitted to UPPCB.
4. The industry shall comply with the conditions of Environmental Clearance issued by MoEF&CC Govt of India.
5. Industry shall comply with the Fly Ash notification dated 25-01-2016 of MoEF&CC Govt. of India and detail of Fly ash disposal shall be submitted on quarterly basis to UPPCB.
6. Industry shall maintain effective dust separation /collection system at Coal Handling and Transportation point and also maintain shed in CHP area in such manner so that Ambient Air Quality is not affected at nearby places and Ambient air quality shall be monitored on regular basis and its report shall be submitted on quarterly basis to the UPPCB.
7. Industry shall submit the Stack emission and Ambient Air quality monitoring report of Board's Laboratory/Approved Laboratory on quarterly basis.
8. Industry shall develop and maintain green belt as per the guidelines issued by the Board vide order dated 16/02/2018, which is available on Board's Website- www.uppcb.com. The proposal for plantation in the year 2018-19 shall be submitted within 01 month.
9. Industry shall comply with various provisions of Hazardous and Other waste (Management & Trans-boundary Movement) Rule 2016. Detail of hazardous waste disposal shall be submitted in Form-10.
10. Industry shall comply the recommendation of core committee, constituted by Hon'ble NGT and also directions issued under Singrauli Action Plan.
11. Industry shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act, 1986.
12. Industry shall abide by directions given by Hon'ble Courts, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.
13. Industry will also use atleast 20 % bio-fuel as fuel as per availability.
14. Industry shall comply with the relevant provisions of Environmental Laws.
15. In case of closure directions under section-5 of E(P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.

Issued with the permission of competent authority .



For Hindalco Industries Limited

Authorized Signatory

For and on behalf of U.P. Pollution Control Board .  
TANZAR ULLAH KHAN  
Digitally signed by TANZAR ULLAH KHAN  
Date: 2018.04.12 18:19:21 +05'30'

Chief Environmental Officer (circle-2)

प्रभागीय वनाधिकारी  
रेनुकोट वन प्रभाग  
रेनुकोट - सोनभद्र

मप  
Ro/Am

क्षेत्रीय वनाधिकारी  
पिपरी रेंज

रेनुकोट वन प्रभाग, रेनुकोट, सोनभद्र

सहायक वन सारसक/प्रभा  
अनपरा रेंज-  
रेनुकोट वन प्रभाग-सोनभद्र

U.P. Pollution Control Board

CONSENT ORDER

Ref No. -  
17977/UPPCB/Sonebhadra(UPPCBRO)/CTO/wat  
er/SONBHADRA/2018

Dated : 12/04/2018

To,

M/S KN BHANDARI  
Hindalco Industries Limited(Renusagar Power Div.)  
REBUSAGAR  
SONBHADRA

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974  
(as amended) for discharge of effluent to M/s. Hindalco Industries Limited(Renusagar  
Power Div.)

Reference Application No :849921

Dated :12/04/2018

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act, 1974 as amended (here in after referred as the act ) M/s. Hindalco Industries Limited(Renusagar Power Div.) is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tant/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 01/01/2018 to 31/12/2019 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

Enclosed : As above  
(condition of consent):

Copy to: Regional Officer, U.P. Pollution Control Board, Sonbhadra with direction to send the compliance report of consent conditions on quarterly basis.

TANZAR ULLAH KHAN  
Digitally signed by TANZAR ULLAH KHAN  
Date: 2018.04.12 18:17:58 +05'30'

Chief Environmental Officer (circle-2)



For Hindalco Industries Limited

Authorized Signatory

प्रभागीय वर्गीधिकारी  
रेनुकूट वन प्रभाग  
रेनुकूट - सोनभद्र

मय  
R. S. Ansari

क्षेत्रीय वर्गीधिकारी  
पिपरी रेंज

रेनुकूट वन प्रभाग, रेनुकूट, सोनभद्र

सहायक वन सहायक/प्रभारि

अनापरा रेंज-

रेनुकूट वन प्रभाग-सोनभद्र

**U.P. POLLUTION CONTROL BOARD, LUCKNOW**

**Annexure to Consent issued to M/s.Hindalco Industries Limited(Renusagar Power Div.) vide**

Consent Order No. 849921/ Water

Dated : 12/04/2018

**CONDITIONS OF CONSENT**

1. This consent is valid only for the approved production capacity of Power Generation-840 MW.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details		
S.No	Kind of Effluent	Treatment facility and discharge point
1	Domestic	STP
		Maximum daily discharge,KL/day 7800 KLD treated effluent used for dust suppression and irrigation within premises.
2	Industrial	ETP
		20850 KLD treated effluent used for ash handling, and dust suppression in CHP area.

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. The treated domestic and industrial effluent if discharged outside the premises, if meets at the end of final discharge point, arrangement should be made for measurement of effluent and for collecting its sample. Except the effluent informed in the application for consent no other effluent should enter in the said arrangements for collection of effluent. It should also be ensured that domestic effluent should not be discharged in storm water drain .
- 4 a. The domestic effluent should be treated in treatment plant so that the should be in conformity with the following norms dated treated effluent .
 

Domestic Effluent		
S.No	Parameter	Standard
1	BOD	30 mg/l
2	COD	250 mg/l
3	Total Suspended Solids	100 mg/l
4	Oil & Grease	10 mg/l
- 4 b. The industrial effluent should be treated in treatment plant so that the treated effluent should, be in conformity with the following norms. .
 

Industrial Effluent		
S.No	Parameter	Standard
1	BOD	30 mg/l
2	COD	250 mg/l
3	Total Suspended Solids	100 mg/l
4	Oil & Grease	10 mg/l
5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Act,1986 or otherwise mandatory .
6. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry .



For Hindalco Industries Limited

*Sonebhadra*  
Authorized Signatory

*केन्द्रीय वनाधिकारी*

*प्रभागीय वनाधिकारी*  
रेनुकूट वन प्रभाग  
रेनुकूट - सीताबदनी  
अनपरा रोज़

*रेनुकूट वन प्रभाग - सीताबदनी*

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7.

The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under The Environment (Protection) Act, 1986.

8.

The treated domestic and industrial effluent be mixed (as per the provisions of Condition No. 2) and disposed of on one disposal point. This common effluent disposal point should have arrangement for flow meter/V Notch for measuring effluent and its log book be maintained .

**Specific Conditions:**

1. This consent is valid for power generation -840 MW.
2. The industry shall install Electro Magnetic Flow meter at water withdrawal source and logbook of flow meter reading shall be maintained.
3. The industry shall operate and maintain Online Continuous Effluent Quality Monitoring System effectively and data shall be transmitted to CPCB and UPPCB server. OCEQMS system shall be calibrated through recognized agency and calibration certificate should be submitted to UPPCB.
4. The industry shall comply with the conditions of Environmental Clearance issued by MoEF&CC Govt of India.
5. Industry shall comply with the Fly Ash notification dated 25-01-2016 of MoEF&CC Govt. of India and detail of Fly ash disposal shall be submitted on quarterly basis to UPPCB.
6. Industry shall treat DM plant, Back Wash, Cooling Tower Blowdown effluent through ETP to recycle treated effluent in the process, sprinkling in coal handling plant for dust suppression & greenery etc. Ash pond overflow shall be recycled through AWRs and maintain zero effluent discharge.
7. Domestic effluent shall be treated through STP and treated water shall be used for irrigation within the premises.
8. Ground water shall be monitored on quarterly basis nearby ash dikes and analysis report with respect to heavy metals shall be sent to UPPCB.
9. Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com. The proposal for plantation in the year 2018-19 shall be submitted within 01 month.
10. Industry shall comply with various provisions of Hazardous and Other waste (Management & Trans-boundary Movement) Rule 2016. Detail of hazardous waste disposal shall be submitted in Form-10.
11. Industry shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act, 1986.
12. Industry shall abide by directions given by Hon'ble Courts, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.
13. Industry shall comply the recommendation of core committee, constituted by Hon'ble NGT and also directions issued under Singrauli Action Plan.
14. Industry shall comply with the relevant provisions of Environmental Laws.
15. In case of closure directions under section-5 of E(P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .  
TANZAR ULLAH KHAN  
Digitally signed by TANZAR ULLAH KHAN  
Date: 2018.04.12 18:18:14 +0530'  
Chief Environmental Officer (circle-2)

For Hindalco Industries Limited



Authorized Signatory

बोनीय ज्वाधिकारी  
पिपरी रेंज

रेनुकूट वन प्रभाग, रेनुकूट, सोनभद्र

प्रभागीय वकीलकारी

रेनुकूट वन प्रभाग सहायक वन अधिकारी/प्रभार

रेनुकूट - सोनभद्र

अनपरा रेंज-

रेनुकूट वन प्रभाग-सोनभद्र