



स्टील अथॉरिटी ऑफ़ इंडिया लिमिटेड  
**STEEL AUTHORITY OF INDIA LIMITED**  
कोलियरीज डिवीज़न,  
**COLLIERIES DIVISION**

Ref:- *GM/TASRA/214*

Date : - 01/12/2017

To,  
The Additional Director(s),  
El Division,  
Ministry of Environment, Forest and Climate Change,  
ParyavaranBhawan, CGO Complex, Lodhi Road,  
New Delhi – 110003

Sub: Six Monthly Status of Compliance to the conditions stipulated in the EC granted by MoEF and Climate Change for Tasra Coal Mining Project (EC granted vide letter no. J-1105/122/2007-IA-II(M) dated 13<sup>th</sup> October, 2009) for the period ending 30<sup>th</sup> September, 2017.

Dear Sir,

Please find enclosed herewith the updated six monthly compliance report for the period ending 30<sup>th</sup> September 2017 with respect to the condition stipulated in the Environmental Clearance granted by Ministry of Environment, Forest and Climate Change, New Delhi vide letter no. J-1105/122/2007-IA-II(M) dated 13<sup>th</sup> October, 2009 for the Tasra Coal Mining Project of M/s Steel Authority of India Limited for your kind perusal please.

Hard Copy and Soft copy of the report is enclosed.

Thanking you,

Yours faithfully

GM (C&T)

Encl : As above.

Copy :

- |   |   |
|---|---|
| 1. The Additional Director (s)<br>Ministry of Environment Forest and Climate Change<br>Regional Office, Eastern Zone, A/3 Chandrasekharapur,<br>Bhubaneswar – 751023 (ODISHA) | 4. J.S.P.C.B<br>Regional Office,<br>Dhanbad (JHARKHAND) |
| 2. The Member Secretary<br>Central Pollution Control Board,<br>PariveshBhawan, CBD-cum-Office Complex,<br>East Arjun Nagar, Delhi – 110032 (INDIA)                            |   |
| 3. The Member Secretary<br>Jharkhand State Pollution Control Board,<br>H.E.C., Dhurwa, Ranchi – 834004 (JHARKHAND)  |   |

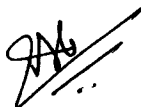
**Status of Compliance to the Condition stipulated in the Environmental Clearance granted by MoEF for Tasra Coal Mining Project (4 MTPA) for the period September' 2017 (EC granted vide Ref. No. J-1105/122/2007-IA-II(M) dated 13<sup>th</sup> October, 2009)**

**(A) Specific Conditions:-**

Cond. No.	Conditions Imposed	Status as on September' 2017
(i)	The environmental clearance is restricted to opencast operations only. A separate application shall be submitted for environmental clearance for Underground Mining Project proposed below 260m below ground level.	Tasra Coal Mining Project is planned for opencast mining upto 260m below ground level. The life of the mine is 28 years including 2 years of construction i.e. development period. Reserves below 260m depth will be extracted by underground mining method for which a separate application will be submitted for grant of Environmental Clearance before underground mining operations are undertaken.
(ii)	An application for environmental clearance shall be made within 3 months for the establishment of Coal Washery of 3.5 MTPA Capacity proposed within the ML area.	Environmental Clearance granted/obtained vide letter no. J-11015/365/2009-IA.II(M) pt dated 30.03.2017.
(iii)	Mining shall be carried out maintaining a minimum distance of 100m between the river Damodar and Quarry edge along northern boundary. The embankment to be constructed along the river Damodar adjoining quarry shall be based on peak flow and shall be at least 3m above HFL. The slope of the embankment shall be at least 2:1 towards the ML, compacted and stone pitching down towards the river and shall be stabilized with plantation. Material such as OB shall be tested for strength before using for construction of embankment.	Tasra Coal Mining Project has been planned maintaining a minimum distance of 100m between river Damodar and the Quarry edge. Embankment will be constructed on northern bank of River Damaodar, adjoining to the quarry as per the conditions specified in the Environmental Clearance granted by MoEF.  This will be strictly adhered to when the project take off. In fact as per the approved Mining Plan a minimum barrier of 100m (including space for embankment) has been considered between the mine boundary and Damodar River.
(iv)	The plan for diversion and realignment of the Domohani Jore and Cilatu Jore and modification of the natural surface drainage and design of the diversion canal shall be following the natural topography of the region to be done in consultation and approval of the concerned State Flood and Irrigation Department Dimension and depth of the nala shall be finalized based on the peak flow of the water.	As per the mining schedule of Tasra OCP, the diversion and realignment of Domohani Jore and Cilatu Jore is planned beyond 10 <sup>th</sup> Year commencement of the project operations. All diversion of jores will be carried out in consultation and approval of the concerned authorities. Design of diversion canal will be finalized based on the peak flow of the water.
(v)	Top soil shall be stacked properly with proper slope at earmarked site(s) and shall not be kept active and shall be used within a year of generation for reclamation and development of green belt.	It is prudent to mention that Tasra OCP was previously worked by BCCL, so in initial few years, no top soil will be encountered as mining will be carried in the broken land. However after acquisition of fresh land, top soil will be removed

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Cond. No.	Conditions Imposed	Status as on September' 2017
		and placed in separate stock piles near the main dump and will used in reclamation of waste dumps and development of green belt.
(vi)	<p>OB shall be stacked at earmarked external dump site within ML area of maximum height of 90m of 3 benches of 30m each. A garland drain of educate capacity, and toe wall along the OB dump shall be created to arrest the silt flow from the dumps. In addition to the garland drain, a separate 4-6m channel to serve as storm water drain shall also be created all along the mine based on peak data. Silt arrestor shall be constructed for both garland drain and storm water drain and the drain shall be regularly de-silted.</p> <p>Toe wall shall be constructed at the base of the dump shall be strengthened at critical patches with stones and compacted. Plantation using native species shall be developed between the dumps and River Damodar. For reclamation of dumps and quarry with plantation, no chemical fertilizer shall be used. The ultimate slope of the dump shall not exceed 28°. Reclamation of the OB Dumps of an area of 168.47 Ha with vegetation shall be completed by 10<sup>th</sup> Year. Monitoring and management of the reclaimed dump site shall continue until the vegetation becomes self-sustaining compliance status shall be submitted to MoEF and its Regional Office located at Bhubneshwar on yearly basis.</p>	<p>All mining activity will be carried out as per mining plan approved by Ministry of Coal and the conditions stipulated in the Environmental clearance. At Tasra OCP most of the overburden material will be dumped internally within the pit. The waste generated during the first five year is proposed to be dumped partly outside and partly backfilled. After 6 years, the waste generated will completely be accommodated internally into the mined out voids. The external OB Dump site has been proposed over the abandoned ash dumping site of FCIL. The proposed external dump height will be 90m in three decks of height 30m each. A garland drain is proposed all around the dump to arrest surface runoff of rain water during monsoon. It is also proposed to stabilize the inactive slope of the dumps by plantation. Compliance status will be submitted to MoEF and its regional office located at Bhubneshwar as directed.</p> <p>As per the EC of Tasra OCP, under specific condition point no. VI it was mentioned that OB shall be stacked at earmarked external OB dump site within ML area. However, as per approved mine plan and EIA/EMP submitted to MoEF, the external dump site has been proposed over the abandoned ash dumping site of FCIL land which is located outside the ML area of Tasra OCP.</p>
(vii)	<p>Catch drain and siltation pond of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilized for watering the mining area, road, greenbelt development etc. The drains shall be regularly de-silted and maintained properly.</p> <p>Garland drains (size, gradient and length) and sump capacity shall be designed keeping safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mining site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.</p>	<p>The storm water run-off from the mining area will be diverted to the sedimentation dams to arrest the suspended solids through garland drains from around the mine, dump yards, stock piles. The water so collected will be utilized for water spraying in the mining area, roads for dust suppression, green belt development etc. The drains will be regularly de-silted and maintained properly Garland drains and sump capacity will be designed keeping safety margins over and above the peak sudden rainfall and maximum discharge in the area adjoining the mining site.</p>



Cond. No.	Conditions Imposed	Status as on September' 2017
(viii)	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and situation shall be based on rainfall data.	Retaining wall will be designed based on the rainfall data of the area.
(ix)	The approach road shall be blacked topped. A three tire avenue plantation shall be developed along the main approach roads and haul roads. Entire mine transportation shall be by rail mode only. Mineral transportation from the mine to the railway siding shall be by closed belt conveyor only. The railway siding shall be provided with Silo rapid loading system.	The main approach road will be black topped. A three tire avenue plantation will be also developed along the main roads and haul roads. ROM coal will be transported to CHP end through haul road along southern pit limit and the crushed coal from CHP will be transported to the proposed Washery by closed belt conveyor. Further washed coal from the Washery to the Steel Plants will be transported by rail.
(x)	Drills shall be wet operated only.	There will be no dry drilling. In fact SAIL has already resorted to wet drilling in all of its mines.
(xi)	Controlled blasting shall be practised with the use of delay detonators. The mitigative measures for control of ground vibration and to arrest the fly rocks and boulders shall be implemented.	Muffled control blasting will be practiced with the use of NONEL detonators to arrest fly rocks. Appropriate pattern and maximum charge per delay as per DGMS norms will be followed.
(xii)	Water sprinkling system shall be provided to check fugitive emissions from crushing operation, conveyor system, haulage roads, transfer points etc. Hopper of the coal crushing units and Washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operation, transfer point at railway siding.	Water sprinkling system will be installed to check fugitive emission from crushing operation, conveyor system, haulage roads, transfer points etc. Hopper of the Coal crushing units and washery unit will be fitted with high efficiency dust extraction system with bag filters and mist spray. Water sprinkling system will be installed and operated effectively at all times of operation to check fugitive emission from crushing operation, transfer points at railway siding.
(xiii)	No ground water (bore well) shall be used for mining operations. Additional water if any required for the project shall be used from recycled water or from mine discharge water or rain water collected in rain water harvesting pits within the project area	No ground water (bore well) will be used for mining operations. Required industrial water requirement will be met from mine pit water.
(xiv)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new piezometer. The monitoring of quantity shall be done four times a year in pre monsoon (May), Monsoon (August), post monsoon (November) and winter (January) seasons and for the quality in may Data thus collected shall be located to MoEF and to the Central Pollution Control Board	At present our mining activity is limited to dewatering of old abandoned quarry previously worked by BCCL. As such there is no depletion of ground water resources. However regular monitoring of ground water level and quality will be carried out by establishing a network of existing wells and construction of new piezometer as directed.

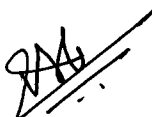
  
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Cond. No.	Conditions Imposed	Status as on September' 2017
	quarterly within one month of Monitoring. Rain water structures shall be erected in the core and buffer zone in case monitoring indicates a decline in water table.	
(xv)	The project authorities shall meet water requirement of nearby villages in case of village well goes dry due to dewatering of mine.	Under CSR scheme, SAIL has initiated efforts to meet the water requirements of nearby villages.
(xvi)	Sewage treatment plant of adequate capacity shall be installed in the colony. ETP shall also be provided for workshop and CHP wastewater. Treated wastewater meeting prescribed norms only shall be recycled for mining operations to the extent possible and permitted to be discharged in to the natural watercourses only if it meets the prescribed standards.	An R&R colony will be set up for displaced persons of the project area. There is provision for setting of sewage treatment plant in the colony. ETP will also be installed for workshop and CHP wastewater. Treated wastewater (meeting prescribed norms only) will be recycled for mining operations to the extent possible and permitted to be discharged in to the natural water courses only if it meets the prescribed standards.
(xvii)	Total area that shall be brought under afforestation at the time of mine closure shall not be less than 444.49 Ha. which includes reclaimed top soil dump area external OB out in consultation with local dump (168.47 ha.), backfilled area (276.02 ha.) along ML boundary, embankment, undisturbed area, along roads and infrastructure, green belt and in township outside the lease by planning native species in consultation with the local DFO/ Agriculture Dept. The density of the tree shall be around 2500 plant/Ha.	After completion of mining operations Mine closure will be done as per Mine Closure Plan. Plantation will be carried out in consultation with Local DFO/Agriculture Department.
(xviii)	A progressive Mine Closure Plan shall be implemented by reclamation of 276.02 ha, of the total quarry area of 371.33ha, which shall be backfilled and afforested by planting native plants species in consultation with the local DFO/ Agriculture Department. The density of the plants shall be around 2500 plants per ha. The balance 95.33 ha of decoaled quarry area being converted into a water reservoir shall be gently sloped and the upper benches of the reservoir shall be terraced and stabilized with plantation. Only native species shall be used for plantation.	Out of the total quarry area of 371.33 Ha, progressive mine closure plan will be implemented covering 276.02 ha. Quarry area through backfilling & Afforestation by planting native species in consultation with the local DFO/Agriculture Department.
(xix)	Beside carrying out regular periodic health check-up of their works, 10% of workers identified from workforce	As per DGMS norms IME and PME i.e. initial medical examination and periodical medical check of work force will be done. Additionally 10% of the work force engaged in active mining operation will

Cond. No.	Conditions Imposed	Status as on September' 2017
	engaged in active mining operation shall be subjected to health check-up for occupational diseases and hearing impairment if any, through an agency as NIOH, Ahmedabad within a period of 1 year and the results reported to this ministry and to DGMS.	be subjected to health check-up through an agency as NIOH, Ahmedabad.
(xx)	An amount of Rs. 600.60/- lakhs as capital cost and Rs. 35/- lakhs towards annual recurring cost has been earmarked for environmental protection measures. The details of which shall be uploaded on the company web site every year.	An amount of Rs. 600.60/- lakhs as capital cost has been earmarked for environment protection measures. Provision of Rs. 35/- lakhs will be made towards annual recurring cost as directed.
(xxi)	<p>A detailed R&amp;R plan for the life of the project, prepare comprising losers, homestead losers, and land and homestead losers and landless, including tribal to be displaced from the project area shall be prepared and implemented in stipulated time frame. A master plan for the R&amp;R colony and specific plan for Phase – I consisting of 1642 PAF's shall be prepared within two months from the date of environmental clearance along with time schedule for completion of activities including construction of R&amp;R colony and completion of various works for civic amenities in the colony. R&amp;R shall include setting of an ITI for training &amp; skill development amongst the persons to be employed and those not being absorbed for vocational training for alternate livelihood, particularly stimulation training for various skills, which may be for indirect employment. Annuities for the Vulnerable persons being displaces shall also be included in R&amp;R person affected by double/triple displacement shall be compensated as per norms. R&amp;R for Phase – I shall be completed within a year of grant of environmental clearance. A subcommittee comprising of three Experts of Appraisal Committee shall monitor the compliance of implementation of Phase-I of R&amp;R and beyond if required</p>	<p>A detailed R&amp;R plan has been prepared for the life of the project, comprising land losers, homestead losers, and land and homestead losers, and land less including tribal to be displaced from the project area in line with Govt. policies and the same has been approved by the SAIL board.</p> <p>A master plan for the R&amp;R colony and specific plan for the phase –I consisting of 1642 PAF has been prepared and the same will be implemented in the due course after land acquisition.</p> <p>R&amp;R activities related to the project including establishment of R&amp;R colony, if required shall be taken up as per the R&amp;R Plan as approved by concerned Authority.</p> <p>However, due to enactment of "THE RIGHT TO FAIR COMPENSATION AND TRANSPERANCY IN LAND ACQUISITION REHABILITATION AND RESETTLEMENT ACT 2013" (LARR ACT 2013) w.e.f. January 2014 by Govt. of India, R&amp;R Plan may need to be revised as per the provision of LARR Act 2013.</p> <p>In addition to this it may also be noted that R&amp;R scheme for the Project Affected Families (PAF) has been prepared by the District Administration in terms of new LARR Act, 2013 and Public Hearing was successfully conducted by the District Administrator R&amp;R on 18.02.2016 for the same.</p> <p>The R&amp;R Scheme prepared by District Administration has been approved.</p>

  
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Cond. No.	Conditions Imposed	Status as on September' 2017
(xxii)	Peripheral village of Parasbania, Chattabad, Orbeta, Kurtand, SindriBasti, Manohartand, Chasnalabasti, Manpur, Jharna, Bogla, and Chandankyari shall be taken for socio economic activity under CSR, for which a sum of Rs. 65/- Crores shall be earmarked for capital cost and Rs. 4/- crore as revenue cost over the life of the project. The proponent shall continue VDC for monitoring the implementation of CSR. In addition the Sub-Committee of EAC shall also monitored if required.	VDC will be constituted as directed.
(xxiii)	The project authority shall carry out a detailed pre-mining socio-economic survey based on the UNDP Human Development Report and quality of life parameters and monitor the socio-economic status once every three years and maintain record thereof and report in their annual report, the socio-economic report of R&R and CSR Activities. The details of which shall be uploaded on the company's web site every year. A post of GM to exclusively look after R&R & CSR shall be created.	PDIL i.e. Project Development India Limited, a Central Govt. PSU and by Abhiyan Samiti a Dhanbad based NGO in the year 2008 and 2009 respectively, i.e. prior to start of mining operation.  Fresh socio-economic survey will be carried out based on the UNDP Human Development Report and quality life parameters to monitor the socio-economic status.
(xxiv)	For monitoring land use pattern and post mining land use, a time series of land use maps based on satellite imagery (1:5000) of the core and buffer zone from the start of the project until end of the mine life shall be prepared once in three year from any one particular season which is consistent in the time series and the report submitted to MoEF and its regional office at Bhubneshwar.	Satellite imagery of the core and buffer zone has been done before pre-mining activity i.e. on 2007 and land use map based on the satellite imagery has been prepared and submitted to MoEF. Further land use maps will be prepared and submitted as directed during the operation.
(xxv)	A final mine closure plan along with details of Corpus Fund shall be submitted to the MoEF, 5 year in advance of the final mine for approval.	A Final Mine Closure Plan along with details of Corpus Fund will be submitted to MoEF, 5 year in advance of the final Mine Closure for approval as directed.



**General Conditions:-**

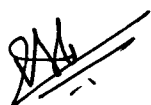
Cond. No.	Conditions Imposed	Status as on September' 2017
(i)	No change in technology and scope of work shall be made without prior approval of the Ministry of Environment and Forest	Noted
(ii)	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	Quantum of mineral coal and waste dumping will be kept within the planned quantities as per approved mining plan.
(iii)	Four ambient quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RSPM, So <sub>2</sub> and NO <sub>x</sub> . Locations of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr in SPM and RSPM etc., shall be carried out at-least once in 6 months	Four nos. of air quality monitoring station in and around Tasra Coal Block are being monitored.
(iv)	Data on ambient air quality (SPM, RSPM, So <sub>2</sub> and NO <sub>x</sub> and heavy metals such as Hg, As, Ni, Cr etc.) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhubneshwar and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the E (P) Rules, 1986 shall be furnished as part of compliance.	Air quality data for the period of April 2017 to September 2017 is placed in Annexure – I.
(v)	Adequate measures shall be taken for control of noise level below 85 dBA in the work environment. Workers engaged in blasting operation, operation of HEMM etc. shall be provided with ear plugs/muffs.	Noise level will be maintained below 85 dBA and person engaged in drilling and blasting operation will be provided with ear muffs.
(vi)	Industrial waste water (workshop and waste water from the mine) shall be properly collected treated so as to conform to the standards including for heavy metals, before discharge prescribed under GSR+22 (E) dated 19 May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	At present no industrial water is generated from the mine and no workshop has been established till date for Tasra OCP. There is provision for installation of effluent treatment plants for treatment of waste water from mine as well as workshop.

  
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Cond. No.	Conditions Imposed	Status as on September' 2017
(vii)	Vehicular emission shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.	All mineral transporting vehicles will be maintained in good condition to control vehicular emissions. Vehicle transporting coal will be optimally loaded and covered with tarpaulins.
(viii)	Monitoring of environment quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EP Rules, 1986.	Environmental Monitoring is being done through NABL/MoEF Accredited Lab.
(ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational Health Surveillance Programme of the worker shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if required.	Personnel working in dusty areas will wear protective respiratory devices and they will be provided with adequate training and information on safety and health aspects. Occupational Health Surveillance Programme of the worker will be undertaken periodically to observe any contractions due to exposure of dust and to take corrective measures, if required.
(x)	Separate Environmental Management Cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organisation.	Separate Environmental Management Department has been set up and headed by Asst. General Manager, who reports directly to the Head of the Mine. In addition to this, SAIL is having a separate Corporate Environment Management Division (EMD) at Kolkata under the control of Executive Director, who facilitates in environmental management of all SAIL units.
(xi)	The fund earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the Ministry and its regional office located at Bhubneshwar.	Noted
(xii)	The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned, within 7 day of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the	Complied. Advertisement was issued in two local newspaper widely circulated around the project.

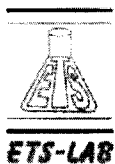
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Cond. No.	Conditions Imposed	Status as on September' 2017
	Ministry of Environment and Forest at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a>	
(xiii)	A copy of the clearance letter shall be marked to concerned Panchyat/ZilaParishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom suggestion/representation has been received while processing the proposal. A copy of the clearance letter also to be displayed on the company's website.	Compliance has been done as per the EC condition. A copy of clearance letter has also been displayed on the company's web site.
(xiv)	A copy of clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector Office/Tehsildar Office for 30 days.	Compliance has been done as per the EC condition.
(xv)	The Clearance letter shall be uploaded on the Company's website. The compliance status of stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as SPM, RPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient and stack if any) and critical sectorial parameters shall be displayed at the entrance of the project premises and mine office and in corporate office and on the company's website.	The Environmental Clearance has been uploaded on the company's website. The compliance status of stipulated EC conditions shall also be uploaded on the company's website and updated at least once in every six months after submission of the report to the concerned Authorities. The environmental monitoring data shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.
(xvi)	The project proponent shall submit six monthly report on the status compliance of the environmental clearance conditions (both in hard copy and e-mail) to the respective Regional Office of the MoEF, the respective Zonal Office of CPCB and the SPCB.	Being complied
(xvii)	The Regional Officials of the Ministry located at Bhubneshwar shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data information monitoring report.	Full Co-operation will be extended by SAIL to State and Central Govt. Authorities as required.
(xviii)	The environmental statement for each financial year ending 31 <sup>st</sup> September Form V is mandate to be submitted by the	The Environmental Statement for each financial year shall be submitted to the concerned State Pollution Control Board and shall also be uploaded



Cond. No.	Conditions Imposed	Status as on September' 2017
	Project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Act, 1986 as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by e-mail.	on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by e-mail.

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# ENVIRO-TECH SERVICES

An Environmental Analytical Laboratory

Environmental Monitoring, Testing and Services

(An ISO 9001:2008, 14001:2004 and OHSAS 18001:2007 Certified Company)

Recognised by MoEF (Govt. of India), Accredited by IS/ISO/IEC-17025:2005 (NABL)

G-232, M.G. Road Industrial Area, Hapur-Ghaziabad. (U.P.)-201015

email : etslab2012@gmail.com | Website : www.etslab.asia | Ph.: 9811736063, 9911516076



ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/8445A/04/2017

DATE OF REPORT : 10-04-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 02-04-2017

Analysis Start Date

: 05-04-2017

Analysis End Date

: 06-04-2017

Duration Of Sampling

: 02-04-2017 To 03-04-2017 24.0 HOURS

Sample ID No

: 8445A

Sampling Done By

: ETS STAFF

Sampling Location

: TASRA (COAL BLOCK CORE ZONE)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

Weather Condition

: CLEAR

Ambient Temperature : 32.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	71.3	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	42.5	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	12.8	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	18.5	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

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For Enviro-Tech Services

AUTHORIZED SIGNATORY

Md. Humraj

Dy. Quality manager

Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



# ENVIRO-TECH SERVICES

An Environmental Analytical Laboratory

Environmental Monitoring, Testing and Services

(An ISO 9001:2008, 14001:2004 and OHSAS 18001:2007 Certified Company)

Recognised by MoEF (Govt. of India), Accredited by IS/ISO/IEC-17025:2005 (NABL)

G-232, M.G. Road Industrial Area, Hapur-Ghaziabad. (U.P.)-201015.

email : etslab2012@gmail.com | Website : www.etslab.asia | Ph.: 9811736063, 9911516076



ISO 9001/14001/OHSAS 18001  
Acc. No.- M31112041N

## TEST REPORT

TEST REPORT NO : ETS/8445B/10-2017

DATE OF REPORT : 10-04-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 03-04-2017

Analysis Start Date

: 06-04-2017

Analysis End Date

: 07-04-2017

Duration Of Sampling

: 03-04-2017 To 04-04-2017 24.0 HOURS

Sample ID No

: 8445B

Sampling Done By

: ETS STAFF

Sampling Location

: MOHAN BAZAR

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

Weather Condition

: CLEAR

Ambient Temperature : 32.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	82.5	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	47.3	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m <sup>3</sup>	18.0	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m <sup>3</sup>	26.5	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

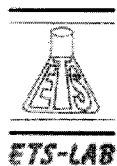
Page 1 Of 1

For Enviro-Tech Services  
AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

Note:-

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ISO 9001/14001/OHSAS 18001  
Acc. No.: M31112041N

## TEST REPORT

TEST REPORT NO : ETS/8445C/04/2017

DATE OF REPORT : 10-04-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 04-04-2017

Analysis Start Date

: 07-04-2017

Analysis End Date

: 08-04-2017

Duration Of Sampling

: 04-04-2017 To 05-04-2017 24.0 HOURS

Sample ID No

: 8445C

Sampling Done By

: ETS STAFF

Sampling Location

: CHASNALLA

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

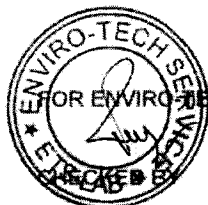
Weather Condition

: CLEAR

Ambient Temperature : 32.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	79.5	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	43.0	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	16.5	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	23.7	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

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For Enviro-Tech Services

AUTHORIZED SIGNATORY

Md. Humraj

Dy. Quality manager

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An Environmental Analytical Laboratory

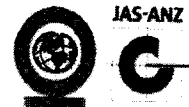
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ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/8445D/04/2017

DATE OF REPORT : 10-04-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S. STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 05-04-2017

Analysis Start Date

: 08-04-2017

Analysis End Date

: 09-04-2017

Duration Of Sampling

: 05-04-2017 To 06-04-2017 24.0 HOURS

Sample ID No

: 8445D

Sampling Done By

: ETS STAFF

Sampling Location

: DIGWADIH

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

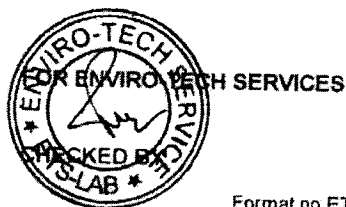
Weather Condition

: CLEAR

Ambient Temperature : 32.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	77.9	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	42.5	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	14.8	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	24.0	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



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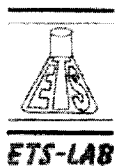
For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

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Acc. No.- M31112041N

## TEST REPORT

TEST REPORT NO : ETS/8845D/05/2017

DATE OF REPORT : 10-05-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 02-05-2017

Analysis Start Date

: 05-05-2017

Analysis End Date

: 06-05-2017

Duration Of Sampling

: 02-05-2017 To 03-05-2017 24.0 HOURS

Sample ID No

: 8845D/05

Sampling Done By

: ETS STAFF

Sampling Location

: TASRA (COAL BLOCK CORE ZONE)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

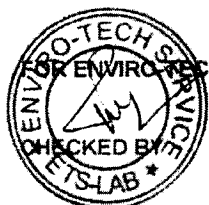
Weather Condition

: CLEAR

Ambient Temperature : 32.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	72.3	For 24 Hrs.=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	40.6	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	13.8	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	16.9	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



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Page 1 Of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj

Dy. Quality manager

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Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/8845E/05/2017

DATE OF REPORT : 10-05-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 03-05-2017

Analysis Start Date

: 06-05-2017

Analysis End Date

: 07-05-2017

Duration Of Sampling

: 03-05-2017 To 04-05-2017 24.0 HOURS

Sample ID No

: 8845E/05

Sampling Done By

: ETS STAFF

Sampling Location

: MOHAN BAZAR

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

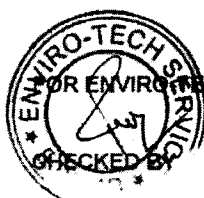
Weather Condition

: CLEAR

Ambient Temperature : 32.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	81.7	For 24 Hrs=100	IS-5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	45.0	For 24 Hrs =60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m <sup>3</sup>	16.9	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m <sup>3</sup>	25.0	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

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For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Dy. Quality manager

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## TEST REPORT

TEST REPORT NO : ETS/8845F/05/2017

DATE OF REPORT : 10-05-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 05-05-2017

Analysis Start Date

: 07-05-2017

Analysis End Date

: 08-05-2017

Duration Of Sampling

: 05-05-2017 To 06-05-2017 24.0 HOURS

Sample ID No

: 8845F/05

Sampling Done By

: ETS STAFF

Sampling Location

: CHASNALLA

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

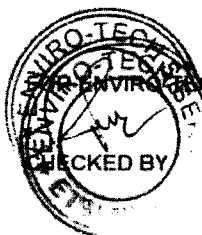
Weather Condition

: CLEAR

Ambient Temperature : 32.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	77.6	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	40.8	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	14.2	For 24 Hrs. = 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	20.8	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



ENVIRO-TECH SERVICES

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For Enviro-Tech Services

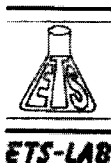
AUTHORIZED SIGNATORY  
Md. Humayun

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

Dy. Quality manager

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ISO 9001/14001/OHSAS 18001  
Acc. No.- M31112041N

## TEST REPORT

TEST REPORT NO : ETS/8845G/05/2017

DATE OF REPORT : 10-05-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 05-05-2017

Analysis Start Date

: 08-05-2017

Analysis End Date

: 09-05-2017

Duration Of Sampling

: 05-05-2017 To 06-05-2017 24.0 HOURS

Sample ID No

: 8845G/05

Sampling Done By

: ETS STAFF

Sampling Location

: DIGWADIH

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

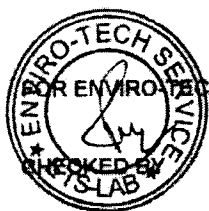
Weather Condition

: CLEAR

Ambient Temperature : 32.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	68.9	For 24 Hrs=100	IS 5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	40.3	For 24 Hrs =60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	12.7	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	22.0	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

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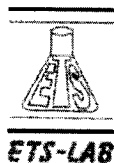
For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

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Acc. No.: M31112041N

## TEST REPORT

TEST REPORT NO : ETS/99A/06/2017

DATE OF REPORT : 10-06-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 02-06-2017

Analysis Start Date

: 05-06-2017

Analysis End Date

: 06-06-2017

Duration Of Sampling

: 02-06-2017 To 03-06-2017 24.0 HOURS

Sample ID No

: 99A

Sampling Done By

: ETS STAFF

Sampling Location

: TASRA (COAL BLOCK CORE ZONE)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

Weather Condition

: CLEAR

Ambient Temperature : 34.2°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	74.5	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	40.2	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	14.8	For 24 Hrs. = 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	22.5	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



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Page 1 Of 1

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AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

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ISO 9001/14001/OHSAS 18001  
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## TEST REPORT

TEST REPORT NO : ETS/99B/06/2017

DATE OF REPORT : 10-06-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 03-06-2017

Analysis Start Date

: 06-06-2017

Analysis End Date

: 07-06-2017

Duration Of Sampling

: 03-06-2017 To 04-06-2017 24.0 HOURS

Sample ID No

: 99B

Sampling Done By

: ETS STAFF

Sampling Location

: MOHAN BAZAR

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

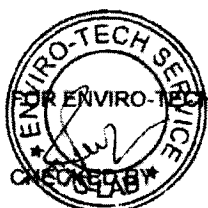
Weather Condition

: CLEAR

Ambient Temperature : 34.1°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	85.0	For 24 Hrs=100	IS-5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	45.5	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	22.0	For 24 Hrs.= 80	IS-5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	28.5	For 24 Hrs.=80	IS-5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

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For Enviro-Tech Services

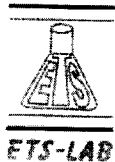
AUTHORIZED SIGNATORY  
Mo. Humraj

Dy. Quality manager

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Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/99C/06/2017

DATE OF REPORT : 10-06-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 04-06-2017

Analysis Start Date

: 07-06-2017

Analysis End Date

: 08-06-2017

Duration Of Sampling

: 04-06-2017 To 05-06-2017 24.0 HOURS

Sample ID No

: 99C

Sampling Done By

: ETS STAFF

Sampling Location

: CHASNALLA

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

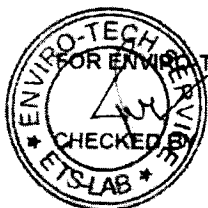
Weather Condition

: CLEAR

Ambient Temperature : 33.0°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	82.5	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	38.4	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	19.5	For 24 Hrs. = 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	26.4	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

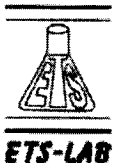
Page 1 Of 1

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

For Enviro-Tech Services  
AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

Note:-

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JAS-ANZ



ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/99D/06/2017

DATE OF REPORT : 10-06-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 05-06-2017

Analysis Start Date

: 08-06-2017

Analysis End Date

: 09-06-2017

Duration Of Sampling

: 05-06-2017 To 06-06-2017 24.0 HOURS

Sample ID No

: 99D

Sampling Done By

: ETS STAFF

Sampling Location

: DIGWADIH

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

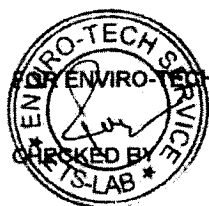
Weather Condition

: CLEAR

Ambient Temperature : 31.6°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	75.2	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	44.0	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.5	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.5	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

Page 1 Of 1

For Enviro-Tech Services

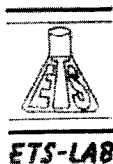
AUTHORIZED SIGNATORY  
Md. Humraj

Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

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ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/13B/07/2017

DATE OF REPORT : 10-07-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 02-07-2017

Analysis Start Date

: 05-07-2017

Analysis End Date

: 06-07-2017

Duration Of Sampling

: 02-07-2017 To 03-07-2017 24.0 HOURS

Sample ID No

: 13B

Sampling Done By

: ETS STAFF

Sampling Location

: TASRA (COAL BLOCK CORE ZONE)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

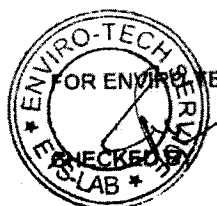
Weather Condition

: CLEAR

Ambient Temperature : 35.1°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	76.2	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	38.8	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	16.5	For 24 Hrs. = 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.3	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



Page 1 Of 1

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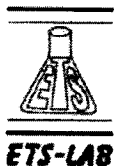
AUTHORIZED SIGNATORY  
Md. Humraj

Dy. Quality manager

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ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/13C/07/2017

DATE OF REPORT : 10-07-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 03-07-2017

Analysis Start Date

: 06-07-2017

Analysis End Date

: 07-07-2017

Duration Of Sampling

: 03-07-2017 To 04-07-2017 24.0 HOURS

Sample ID No

: 13C

Sampling Done By

: ETS STAFF

Sampling Location

: MOHAN BAZAR

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

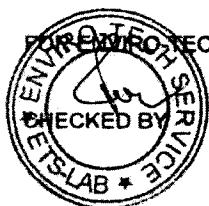
Weather Condition

: CLEAR

Ambient Temperature : 34.1°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	81.5	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	42.8	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	20.4	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	25.2	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



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Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY  
MD. Humayun  
Dy. Quality manager

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ISO 9001/14001/OHSAS 18001  
Acc. No.: M31112041N

## TEST REPORT

TEST REPORT NO : ETS/13D/07/2017

DATE OF REPORT : 10-07-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 04-07-2017

Analysis Start Date

: 07-07-2017

Analysis End Date

: 08-07-2017

Duration Of Sampling

: 04-07-2017 To 05-07-2017 24.0 HOURS

Sample ID No

: 13D

Sampling Done By

: ETS STAFF

Sampling Location

: CHASNALLA

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

Weather Condition

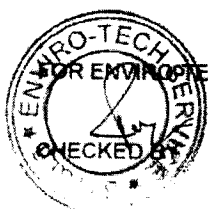
: CLEAR

Ambient Temperature : 36.0°C

S.No. Parameter

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	78.5	For 24 Hrs.=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	40.0	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	21.8	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	28.0	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



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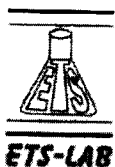
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AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

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ISO 9001/14001/OHSAS 18001  
Acc. No.- M31112041N

## TEST REPORT

TEST REPORT NO : ETS/13E/07/2017

DATE OF REPORT : 10-07-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 05-07-2017

Analysis Start Date

: 08-07-2017

Analysis End Date

: 09-07-2017

Duration Of Sampling

: 05-07-2017 To 06-07-2017 24.0 HOURS

Sample ID No

: 13E

Sampling Done By

: ETS STAFF

Sampling Location

: DIGWADIH

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

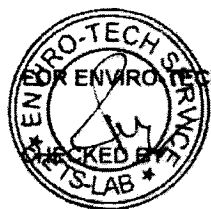
Weather Condition

: CLEAR

Ambient Temperature : 33.6°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	78.0	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	42.4	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m <sup>3</sup>	17.9	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m <sup>3</sup>	26.2	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

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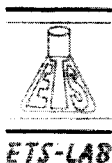
For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

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Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/351C/08/2017

DATE OF REPORT : 10-08-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 02-08-2017

Analysis Start Date

: 05-08-2017

Analysis End Date

: 06-08-2017

Duration Of Sampling

: 02-08-2017 To 03-08-2017 24.0 HOURS

Sample ID No

: 351C

Sampling Done By

: ETS STAFF

Sampling Location

: TASRA (COAL BLOCK CORE ZONE)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

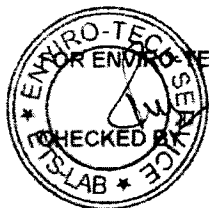
Weather Condition

: CLEAR

Ambient Temperature : 32.7°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	79.0	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	35.2	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	18.7	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	22.0	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



Page 1 Of 1

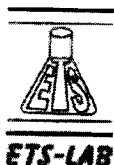
For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

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ISO 9001/14001/OHSAS 18001  
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## TEST REPORT

TEST REPORT NO : ETS/351D/08/2017

DATE OF REPORT : 10-08-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 03-08-2017

Analysis Start Date

: 06-08-2017

Analysis End Date

: 07-08-2017

Duration Of Sampling

: 03-08-2017 To 04-08-2017 24.0 HOURS

Sample ID No

: 351D

Sampling Done By

: ETS STAFF

Sampling Location

: MOHAN BAZAR

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

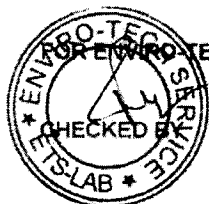
Weather Condition

: CLEAR

Ambient Temperature : 33.3°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	84.3	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	40.2	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	20.8	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	26.4	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

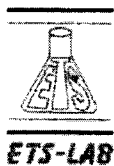
Page 1 Of 1

For Enviro-Tech Services  
AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

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ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/351E/08/2017

DATE OF REPORT : 10-08-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

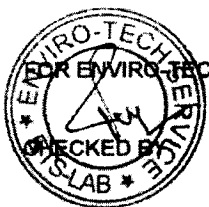
Name And Address Of Customer : TASRA COAL MINING PROJECT  
M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling : 04-08-2017  
Analysis Start Date : 07-08-2017  
Analysis End Date : 08-08-2017  
Duration Of Sampling : 04-08-2017 To 05-08-2017 24.0 HOURS  
Sample ID No : 351E  
Sampling Done By : ETS STAFF  
Sampling Location : CHASNALLA

Sampling Method : ETS/STP/AIR-01  
Sampling Machine Placed At Height : 3.5 mtr (From Ground)  
Weather Condition : CLEAR Ambient Temperature : 32.7°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	80.5	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	42.2	For 24 Hrs =60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	23.9	For 24 Hrs. = 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	31.0	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

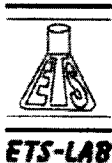
Page 1 Of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Mumraj  
Dy. Quality manager

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email : etslab2012@gmail.com | Website : www.etslab.asia | Ph.: 9811736063, 9911516076



ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/351F/08/2017

DATE OF REPORT : 10-08-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 05-08-2017

Analysis Start Date

: 08-08-2017

Analysis End Date

: 09-08-2017

Duration Of Sampling

: 05-08-2017 To 06-08-2017 24.0 HOURS

Sample ID No

: 351F

Sampling Done By

: ETS STAFF

Sampling Location

: DIGWADIH

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

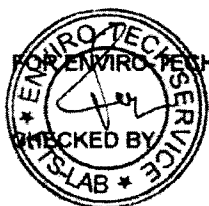
Weather Condition

: CLEAR

Ambient Temperature : 32.4 °C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	76.5	For 24 Hrs.=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	38.3	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	19.0	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	27.9	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

Page 1 Of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

Note:-

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ISO 9001/14001/OHSAS 18001  
Acc. No.: M31112041N

## TEST REPORT

TEST REPORT NO : ETS/S-05K3/09/2017

DATE OF REPORT : 10-09-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

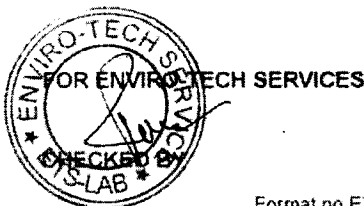
Name And Address Of Customer : TASRA COAL MINING PROJECT  
M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling : 02-09-2017  
Analysis Start Date : 05-09-2017  
Analysis End Date : 06-09-2017  
Duration Of Sampling : 02-09-2017 To 03-09-2017 24.0 HOURS  
Sample ID No : S-05K3  
Sampling Done By : ETS STAFF  
Sampling Location : TASRA (COAL BLOCK CORE ZONE)

Sampling Method : ETS/STP/AIR-01  
Sampling Machine Placed At Height : 3.5 mtr (From Ground)  
Weather Condition : CLEAR Ambient Temperature : 31.9°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	77.4	For 24 Hrs.=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	38.4	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	21.2	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.5	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



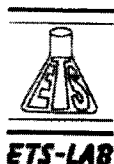
Page 1 Of 1

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For Enviro-Tech Services  
AUTHORIZED SIGNATORY  
Md. Humayun  
Dy. Quality Manager

#### Note:-

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ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/S-05K4/09/2017

DATE OF REPORT : 10-09-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 03-09-2017

Analysis Start Date

: 06-09-2017

Analysis End Date

: 07-09-2017

Duration Of Sampling

: 03-09-2017 To 04-09-2017 24.0 HOURS

Sample ID No

: S-05K4

Sampling Done By

: ETS STAFF

Sampling Location

: MOHAN BAZAR

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

Weather Condition

: CLEAR

Ambient Temperature : 32.5 °C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m <sup>3</sup>	82.5	For 24 Hrs=100	IS:5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m <sup>3</sup>	38.8	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m <sup>3</sup>	18.2	For 24 Hrs.= 80	IS:5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m <sup>3</sup>	28.8	For 24 Hrs.=80	IS:5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



ENVIRO-TECH SERVICES

Page 1 Of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Dy. Quality manager

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Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/S-05K5/09/2017

DATE OF REPORT : 10-09-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 04-09-2017

Analysis Start Date

: 07-09-2017

Analysis End Date

: 08-09-2017

Duration Of Sampling

: 04-09-2017 To 05-09-2017 24.0 HOURS

Sample ID No

: S-05K5

Sampling Done By

: ETS STAFF

Sampling Location

: CHASNALLA

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

Weather Condition

: CLEAR

Ambient Temperature : 33.7°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	77.6	For 24 Hrs=100	IS: 5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	41.2	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	21.5	For 24 Hrs. = 80	IS: 5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	29.6	For 24 Hrs.=80	IS: 5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

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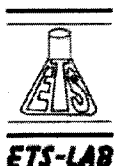
For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

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ISO 9001/14001/OHSAS 18001  
Acc. No. - M31112041N

## TEST REPORT

TEST REPORT NO : ETS/S-05K6/09/2017

DATE OF REPORT : 10-09-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 05-09-2017

Analysis Start Date

: 08-09-2017

Analysis End Date

: 09-09-2017

Duration Of Sampling

: 05-09-2017 To 06-09-2017 24.0 HOURS

Sample ID No

: S-05K6

Sampling Done By

: ETS STAFF

Sampling Location

: DIGWADIH

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

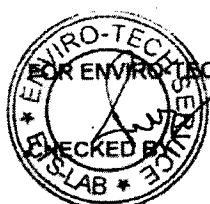
Weather Condition

: CLEAR

Ambient Temperature : 31.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (PM10)	µg/m³	78.2	For 24 Hrs=100	IS 5182 (Part-23)
2	Particulate Matters (PM2.5)	µg/m³	39.7	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m³	21.8	For 24 Hrs = 80	IS 5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	25.5	For 24 Hrs =80	IS 5182 (Part-6)

\*\*\*\* End Of Report\*\*\*\*



FOR ENVIRO-TECH SERVICES

Page 1 Of 1

For Enviro-Tech Services

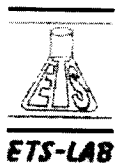
AUTHORIZED SIGNATORY,  
Md. Humraj

Dy. Quality manager

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Acc. No.- M31112041N

## TEST REPORT

TEST REPORT NO : ETS/8445E/04/2017

DATE OF REPORT : 10-04-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, ,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 07-04-2017

Analysis Start Date

: 09-04-2017

Analysis End Date

: 10-04-2017

Duration Of Sampling

: 07-04-2017 To 08-04-2017 24.0 HOURS

Sample ID No

: 8445E

Sampling Done By

: ETS STAFF

Sampling Location

: TASRA ( COAL BLOCK CORE ZONE)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

Weather Condition

: CLEAR

Ambient Temperature : 33.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Nickel (Ni)	ng/m <sup>3</sup>	0.091	For Annual=20	IS: 5182 (Part-22)
2	Arsenic (As)	ng/m <sup>3</sup>	N.D.	For Annual=6	IS: 5182 (Part-22)
3	Mercury (Hg)	µg/m <sup>3</sup>	N.D.	Not Specified	A.A.S. Method
4	Cadmium (Cd)	µg/m <sup>3</sup>	N.D.	Not Specified	A.A.S. Method
5	Cromium (Cr)	µg/m <sup>3</sup>	N.D.	Not Specified	A.A.S. Method

\*\*\*\* End Of Report\*\*\*\*



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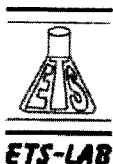
For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

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ISO 9001/14001/OHSAS 18001  
Acc. No.- M31112041N

## TEST REPORT

TEST REPORT NO : ETS/6-6/09/2017

DATE OF REPORT : 10-09-2017

### AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA,  
DHANBAD, JHARKHAND, INDIA

Date Of Sampling

: 06-09-2017

Analysis Start Date

: 09-09-2017

Analysis End Date

: 10-09-2017

Duration Of Sampling

: 06-09-2017 To 07-09-2017 24.0 HOURS

Sample ID No

: 6-6/09

Sampling Done By

: ETS STAFF

Sampling Location

: TASRA ( COAL BLOCK CORE ZONE)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr (From Ground)

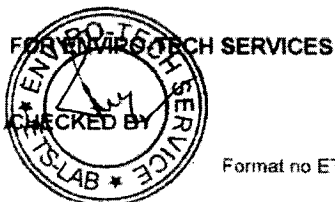
Weather Condition

: CLEAR

Ambient Temperature : 33.5°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Nickel (Ni)	ng/m <sup>3</sup>	0.095	For Annual=20	IS: 5182 (Part-22)
2	Arsenic (As)	ng/m <sup>3</sup>	N.D.	For Annual=6	IS: 5182 (Part-22)
3	Mercury (Hg)	µg/m <sup>3</sup>	N.D.	Not Specified	A.A.S. Method
4	Cadmium (Cd)	µg/m <sup>3</sup>	N.D.	Not Specified	A.A.S. Method
5	Chromium (Cr)	µg/m <sup>3</sup>	N.D.	Not Specified	A.A.S. Method

\*\*\*\* End Of Report\*\*\*\*



Page 1 Of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

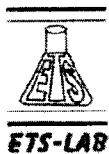
Md. Humraj

Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

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## TEST REPORT

TEST REPORT NO : ETS/S-05K8/9/2017

DATE OF REPORT : 10-09-2017

### WATER SAMPLE ANALYSIS REPORT

Name And Address Of Customer : TASRA COAL MINING PROJECT  
M/S, STEEL AUTHORITY OF INDIA LIMITED, PO- CHASNALA, DHANBAD, JHARKHAND, INDIA

Date of Sampling : 03-09-2017  
Analysis Start Date : 06-09-2017  
Analysis End Date : 10-09-2017  
Sampling ID No. : S-05K8  
Sampling Done By : ETS STAFF  
Sampling Description : GROUND WATER  
Sampling Location : BORE WELL  
Sampling Method : ETS/STP/WATER-02  
Sampling Quantity : 2.0+0.5 Lt  
Packing Condition : SEALED  
Packed In : PVC CANE AND GLASS

S.No.	Parameter	Unit	Result	Drinking Water Standards / Limit (IS :10500-2012)		Test Method
				Desirable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5	15	IS: 3025 (Pt-4)
2	Odour	-	Agreeable	Agreeable	Agreeable	IS: 3025 (Pt-5)
3	Taste	-	Agreeable	Agreeable	Agreeable	IS: 3025 (Pt-6)
4	pH	-	7.23	6.5 - 8.5	No Relaxation	IS: 3025 (Pt-11)
5	Total Hardness (CaCO <sub>3</sub> )	mg/L	450.0	200	600	IS: 3025 (Pt-21)
6	Iron (Fe)	mg/L	<0.05	0.3	No Relaxation	IS: 3025 (Pt-53)
7	Chloride (Cl)	mg/L	117.0	250	1000	IS: 3025 (Pt-32)
8	Free Residual Chlorine (RFC)	mg/L	<0.2	0.2	1	IS: 3025 (Pt-26)
9	Total Dissolved Solids (TDS)	mg/L	1343.0	500	2000	IS: 3025 (Pt-16)
10	Calcium (Ca)	mg/L	124.0	75	200	IS: 3025 (Pt-40)
11	Magnesium (Mg)	mg/L	33.6	30	100	IS: 3025 (Pt-45)
12	Copper (Cu)	mg/L	N.D	0.05	1.5	APHA-3111 (B)
13	Manganese (Mn)	mg/L	<0.05	0.1	0.3	APHA-3111 (B)
14	Sulphate (SO <sub>4</sub> )	mg/L	28.6	200	400	IS: 3025 (Pt-24)
15	Nitrate (NO <sub>3</sub> )	mg/L	1.85	45	No Relaxation	IS: 3025 (Pt-34)
16	Fluoride (F)	mg/L	1.05	1	1.5	IS: 3025 (Pt-60)
17	Cadmium (Cd)	mg/L	N.D	0.003	No Relaxation	APHA-3111 (B)



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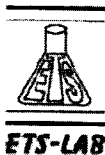
Format no ETS/LAB/TR-09 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

#### Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after one month from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.



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ISO 9001/14001/OHSAS 18001  
Acc. No.: M31112041N

## TEST REPORT

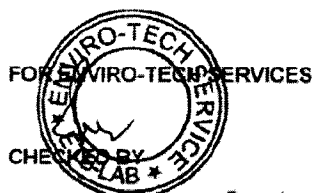
TEST REPORT NO : ETS/S-05K8/9/2017

DATE OF REPORT : 10-09-2017

### WATER SAMPLE ANALYSIS REPORT

18	Selenium (Se)	mg/L	N.D	0.01	No Relaxation	APHA-3113 (B)
19	Arsenic (As)	mg/L	N.D	0.01	0.05	APHA-3500 (B)
20	Lead (Pb)	mg/L	N.D	0.01	No Relaxation	APHA-3111 (B)
21	Zinc (Zn)	mg/L	N.D	5	15	APHA-3111 (B)
22	Chromium (Cr+6)	mg/L	N.D	0.05	No Relaxation	APHA-3500 Cr-B
23	Total Alkalinity	mg/L	232.0	200	600	APHA-2320 (B)
24	Aluminium (Al)	mg/L	N.D	0.03	0.2	APHA-3500 (B)
25	Boron (B)	mg/L	<0.05	0.5	1	APHA-4500 (B)
26	Ammonia (Total Ammonia-N)	mg/L	N.D	0.5	No Relaxation	APHA-4500 (C)
27	Barium (Ba)	mg/L	N.D	0.1	No Relaxation	APHA-3111 (D)
28	Nickel (Ni)	mg/L	N.D	0.02	No Relaxation	APHA-3111 (B)
29	E.Coli	--	Absent	Shall Not Be Detectable		IS-1622-1981
30	Total Coliform	MPN/100 ml	Absent	Shall Not Be Detectable		IS-1622-1981
31	Silver (Ag)	mg/L	N.D.	0.1	No relaxation	APHA-3111 (B)
32	Total Chromium ( as Cr)	mg/L	N.D.	0.05	No Relaxation	APHA-3500 Cr-C

\*\*\*\* End Of Report\*\*\*\*



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For Enviro-Tech Services

AUTHORIZED SIGNATORY  
Md. Humraj  
Dy. Quality manager

Format no ETS/LAB/TR-09 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

#### Note:-

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.
2. The samples received shall be destroyed after one month from the date of test report issued.
3. The results indicated only refer to the tested samples and listed applicable parameters.
4. Our liability is limited to invoice value only.

(1)	(2)	(3)	(4)
5	संसद विभागीय क्षेत्र निर्धारण 142 आई टी ए, फेज - 2, बंगलापुर, ईदराबाद, आंध्रप्रदेश-500051	(1) डा. सुब्बा रेड्डी मानामपति, (2) श्री एस बी श्रीनिवास रेड्डी, (3) श्री अरुणी चला रेड्डी कुमार	02.06.2016 से 01.06.2021
14	संसद अखिल भारतीय मंद कौन्सिल, मार्ग नं. 102, फ्लोर नं. 26, बंगला पाथीरडी रोड, इंदिरा नगर, नासिक, महाराष्ट्र - 422009	(1) सुश्री अर्पणा सुनील फाते, (2) सुश्री शारदा सुनील प्रकाश फाते, (3) श्री निरंजन अरविंद साठेदाकर	02.06.2016 से 01.06.2021
20	संसद पोखरीय क्षेत्रीय एम. लि., 544, वैजिजयम टावर, एम रोड, तिमिर नगर बस स्टैंड के पीछे, गुजरात-395006	(1) डा. अरुण कुमार बाजपेई (2) श्री देवानंद मधुकर गोश्वरी (3) श्री रवींद्र मधुकर गोश्वरी	02.06.2016 से 01.06.2021
84	संसद वैद्यकीय क्षेत्रीय एम एम. लि., 3 फ्ल. के. जी बंगला, गुजरात समाचार भवन के पीछे, एम रोड, गुजरात - 395002	(1) श्री अर्पिता वन कुमार निरंजन (2) श्री बासुकिनी निरंजन कुमार (3) सुश्री विद्यालक्ष्मी आर फाते	02.06.2016 से 01.06.2021

(क) क्रम संख्याएँ 5, 9, 13 व 15, 20, 79, 80 और 83 व 85 तथा उनके मध्यवर्ती प्रतिष्ठानों के स्थान पर

18 जुलाई, 2007 में नवसंविधान मण्डल और कानूनी, अर्थशास्त्र :-

क.आ. 1953(अ).—केंद्रित सरकार के माध्यम से प्रति वर्ष (अ) और (ब) की धारा 12 की उपधारा (1) के खंड (ख) और धारा 13 द्वारा प्रदत्त अधिकारों का प्रयोग करने हेतु और धारा 29 के तहत सरकार के तत्कालीन पर्यावरण और वन प्रशासन की अधिसूचना सं. को.आ. 1174(अ), तारीख (अ) और (ब) 1986 (1986 का 29) की धारा 12 की उपधारा (1) के खंड (ख) और धारा 13 द्वारा प्रदत्त अधिकारों का प्रयोग करने हेतु और धारा 29 के तहत सरकार के तत्कालीन पर्यावरण और वन प्रशासन की अधिसूचना सं. को.आ. 1174(अ), तारीख

ਸਦੀ ਵਿੱਚ, 2 ਜੂਨ, 2016

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[illegible]

सं. 1357]	नई दिल्ली, शक्रान, जून 3, 2016/शुक्र 13, 1938	NEW DELHI, FRIDAY, JUNE 3, 2016/JYVAISTHA 13, 1938	ना. 1357]
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PUBLISHED BY AUTHORITY

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**PART II—Section 3—Sub-section (ii)**

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## EXTRAORDINARY

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**THE GAZETTE OF INDIA**

134	संसद इन्फार्मेटिक सर्विसिज, सी-232, एम सी रोड इंडस्ट्रियल एरिया, हापुर, गाजियाबाद, उत्तर प्रदेश	(1) श्री मंडिर अनवर (2) श्री मंडिर देवराज (3) श्री मंडिर सिंह दोमर	02.06.2016 से 01.06.2021	
135	संसद इन्फार्मेटिक मंडल डेल्टा एंड इक्वलिटी मंडर, ग्रेनिट-2, प्लॉट सं. 457, कानावर्गी इंडस्ट्रियल एरिया, आदो नगर, बेलगाँव, कर्नाटक-590015	(1) श्री मंडिर कुमार सी (2) श्री मांडेरपुजा चौमले (3) श्री संतोष कुमार टी. एम.	02.06.2016 से 01.06.2021	
136	संसद यूनीवर्सल एनालीटिकल सेव, सेक्टर 4 ए के पीछे, निगर कल्या टीवीएस सोडोना रोड, शाहदोरा, रिवाड़ी, हरियाणा-123106	(1) श्री बलवान सिंह (2) श्री विनय दीवीन (3) श्री अर्जीत सिंह	02.06.2016 से 01.06.2021	
137	संसद इन्फार्मेटिक क्वर डेटिया गा. लिमिटेड, सं. 43, सेक्टर स्ट्रीट, हरवे नगर, मर्हू, गजियाबाद- 625016	(1) श्री जी मनीष (2) श्री. एम राजामोहन (3) श्री के राधा	02.06.2016 से 01.06.2021	
138	संसद फंड डेवेलपमेंट डेल्टा इन्फो टेक्नोलॉजि, ए-607-613, 5वां बल और ए-512-513, 4 बल सेवा सेक्टर, मारगुड, सोलापुर रोड, हादगाँव, पुणे, महाराष्ट्र- 411013	(1) श्री रोहन देशपांडे (2) सुशी सीमा सर्वोय बाकडे (3) सुशी सुषमा महेश शिरट	02.06.2016 से 01.06.2021	
139	संसद गणेश एंड कंसल्टेंसी एनालीटिकल सर्विसिज, 294 ए, इन्फो इंडस्ट्रियल एरिया, मर्हू, कर्नाटक- 570016	(1) श्री बी. एस. सुभाष (2) श्री पी. एम. विज कुमार (3) श्री ए. पी. अनरा	02.06.2016 से 01.06.2021	
140	संसद निगा एम के गा. लिमिटेड, पी-48, उद्यान इंडस्ट्रियल एस्टेट, 3, पालादंगा रोड, कोलकाता, पश्चिम बंगाल - 700015	(1) सुशी मीनमी सेन गुप्ता (2) सुशी मोदना राय (3) श्री सुदीप मुखर्जी	02.06.2016 से 01.06.2021	
141	संसद सावित इन्फोटेक गा. लिमिटेड, प्लॉट सं. 203, हा. सं. 5-36/203, प्रगतिनगर, कुकायल्ली आई टी ए, हैदराबाद, आंध्र प्रदेश-500072	(1) श्री बी अर्जुन्या (2) श्रीमति शाना लक्ष्मादेवी (3) श्री पी हरि प्रसाद	02.06.2016 से 01.06.2021	
142	संसद बोल्डम डेटिया लि. (इन्फार्मेटिक एंड केमीकल बोर्डरटी), ई-102, मेवार इंडस्ट्रियल एरिया, मादी, पी बी सं. 21, उदयपुर राजस्थान-313003.	(1) श्री संजीव कुमार यादव (2) श्री विक्रम राय (3) श्री दिनेश कुमार कुमारव	02.06.2016 से 01.06.2021	
143	संसद अरिहंत एनालीटिकल बोर्डरटी गा. लिमिटेड, 272 सी-57, फेस - 4, एच एस आई आई सी सी-कुडली, जिला सोनीपत, हरियाणा-131028	(1) श्री बीरेंद्र सिंह राजवर (2) श्री आशीष श्रीवास्तव (3) श्रीमति वंदना मिश्रा	02.06.2016 से 01.06.2021	

[फा. सं. फ्यू-15018/07/2003-सीपीडब्ल्यू]

श्री. मनोजन दोरा, सलाहकार

**टिप्पणी :-** मूल नियम भारत के राजपत्र, असाधारण, भाग II, खंड 3, उपखंड (I) में अधिसूचना संख्यांक का.आ. 1174(अ), गरीब 18 जुलाई, 2007 द्वारा प्रकाशित किए गए थे और अधिसूचना संख्यांक का.आ. 1539 (अ) गरीब 13 सितंबर, 2007, का.आ. 1811(अ) गरीब 24 अक्टूबर, 2007, का.आ. 55 (अ) गरीब 9 जनवरी, 2008, का.आ. 428 (अ) गरीब 4 मार्च, 2008, का.आ. 865(अ) गरीब 11 अप्रैल, 2008, का.आ. 1894 (अ) गरीब 31 जुलाई, 2008, का.आ. 2728 (अ) 25 नवंबर, 2008, का.आ. 1356 (अ) गरीब 27 मई, 2009, का.आ. 1802 (अ) गरीब 22 जुलाई, 2009, का.आ. 2399 (अ) गरीब 18 सितंबर, 2009, का.आ. 3123(अ), 7 दिसंबर, 2009, का.आ. 142 (अ) गरीब 21 जनवरी, 2010, का.आ. 619 (अ) गरीब 19 मार्च, 2010, का.आ. 1662(अ) गरीब 13 जुलाई, 2010, का.आ. 2390 (अ) गरीब 30 सितंबर, 2010, का.आ. 2904 (अ) गरीब



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

(An Autonomous Body under Department of Science & Technology, Govt. of India)

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"General Requirements for the Competence of Testing & Calibration Laboratories"

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in the discipline of

**CHEMICAL TESTING**

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Certificate Number T-3594

Issue Date 24/09/2015



Valid Until 23/09/2017

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

N. Venkateswaran  
Program Manager

Anil Relia  
Director

Prof. S. K. Joshi  
Chairman