

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

DATED: 31.05-2018

REF: GIM/TASRA/18/55

To,
The Additional Director(s),
El Division,
Ministry of Environment, Forest and Climate Change,
Paryavaran Bhawan, 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 of Tasra Coal Mining Project (EC granted vide letter no. J. 11015/122/2007-IA-II(M) dated 13th October 2009) for the period ending 31st March 2018.

Dear Sir,

Please find enclosed herewith the updated six monthly compliance report for the period ending 31st March 2018 with respect to the conditions stipulated in the Environmental Clearance granted by Ministry of Environment, Forest and Climate Change, New Delhi vide letter no. J-11015/122/2007-IA-II(M) dated 13th October 2009 for Tasra Coal Mining Project of M/s Steel Authority of India Limited for your kind perusal.

Hard Copy and Soft Copy of the report is enclosed.

Thanking you,

Encl: As above.

Cc:

 The Additional Director(s)
 Ministry of Environment Forest and Climate Change Regional Office,
 Bunglow No. A-2, Shyamali Colony,
 Doranda - 834002, Ranchi (Jharkhand)

The Member Secretary
 Central Pollution Control Board,
 Parivesh Bhawan, CBD-cum-Office Complex,
 East Arjun Nagar, Delhi - 110032

The Member Secretary
 Jharkhand State Pollution Control Board,
 H.E.C. Dhurwa , Ranchi - 834004 (Jharkhand)

4. J.S.P.C.B Regional Office, Dhanbad (Jharkhand)

GM (Tasra)

Collectes Division, Chasnalla, Dhanbad, Jharkhand-828135, Telephone: +91-326-2385-001, 2385-002; Fax: +91-2385-003, email: <u>amchasnalla@gmail.com</u>, website: <u>www.sail.c</u> कोलियरीज डिवीजन, धासनाता, धनडाद, आरखण्ड-828135,दरआष: +91-326-2385-001, 2385-002; फैक्स: +91-2385-003, ईमेल: gmchasnalla@gmail.com, वेबसाइट: <u>www.sail.co.i</u>

Status of Compliance to the Condition stipulated in the Environmental Clearance granted by MoEF for Tasra Coal Mining Project (4 MTPA) for the period October-17 to March-18 (EC granted vide Ref. No. J-1105/122/2007-IA-II

(A) Specific Conditions:-

Cond. No.	Conditions Imposed	Status as on March' 2018
(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.	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	As per the mining schedule of Tasra OCP the diversion and realignment of Domohani Jore and Cilatu Jore is planned beyond 10 th Year commencement of the project operations. All diversion of jores will be carried out in consultation and approval of the concerned authorities



consultation and approval of the Design of diversion canal will be finalized based on the peak flow of the water. Flood and State concerned Irrigation Department Dimension and depth of the nala shall be finalized based on the peak flow of the water. Mining operation in Tasra OCP started in Top soil shall be stacked properly (v) a very small patch from old quarry, with proper slope at earmarked previously worked by BCCL. Top soil is site(s) and shall not be kept active and shall be used within a year of being collected since opening of mine i.e. Dec-2017 and stacked in a separate stock generation for reclamation and development of green belt. pile near OB dump and will be used for reclamation purpose and development of green belt. OB shall be stacked at earmarked (vi) per approved mining plan external dump site within ML area EIA/EMP submitted to MoEF&CC, OB is of maximum height of 90m of 3 being stacked at earmarked location benches of 30m each. A garland outside mining lease area of Tasra OCP. drain of adequate capacity, and toe Presently the height of dump is 25 meter wall along the OB dump shall be only and will be restricted to maximum created to arrest the silt flow from height of 90m of three bench of 30m each the dumps. In addition to the as per stipulated condition mentioned in garland drain, a separate 4-6m the Environmental Clearance. channel to serve as storm water drain shall also be created all along Toe wall is being constructed around the the mine based on peak data. Silt OB dump to arrest the silt flow. In due arrestor shall be constructed for course garland drain will also both garland drain and storm water constructed all around the dump to arrest drain and the drain shall be surface runoff of rain water during regularly de-silted. monsoon and to stabilize the inactive Toe wall shall be constructed at the slope of OB Dump plantation will be of the dump shall carried out. strengthened at critical patches with stones and compacted. Plantation Compliance status will be submitted to using native species shall be MoEF and its regional office located at developed between the dumps and Ranchi as directed 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 10th Year. Monitoring and management of the reclaimed dump site shall continue until the vegetation becomes self-sustaining compliance status shall submitted to MoEF and its Regional Office located at Bhubneshwar on

- Access	yearly basis.	
(vii)	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. 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.	As the mining operation in Tasra OCF started from a very small patch, catch drains, garland drains, siltation pond sump etc will be constructed in due course with the expansion of area. However, a later stage, the storm water run-off from the mining area will be diverted to the sedimentation dams/siltation ponds 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.
(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.	While construction of the retaining wall, all technical parameters viz. peak rainfall of the area, stability of the wall etc is being considered. Retaining wall along toe of OB dump with adequate dimension (1.5 meter x 2.0 meter) is being maintained.
(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.	As the mine is in initial development phase, temporary approach road is being maintained. Once the mine is fully developed, permanent approach road of requisite design shall be maintained. Subsequently 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.(through rapid loading system)
(x)	Drills shall be wet operated only.	It is being complied.
(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.	Control blasting is being practiced as per DGMS norms and guidelines of CIMFR based on scientific study conducted. Appropriate pattern and maximum charge per delay with the use of NONEL is being followed to keep ground vibration under

		control and prevent any flying fragment.
(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.	help of 3 nos. water tankers of 16 KL each to check fugitive emission from operation 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
(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) is being used for mining operations. Required water for dust suppression is being met from old mine pit.
(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	are well within the prescribed limit by
(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 and this will be complied regularly.
(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	An R&R colony is under construction for displaced persons of the project area with the provision for setting of sewage treatment plant in the colony. ETP at workshop area is under construction. Treated wastewater (meeting prescribed

	meeting prescribed norms only shall be recycled for mining operations to the extent possible and permitted to be discharged m to the natural water courses only if it meets the prescribed standards.	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 topsoil dump area external OB 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 approved 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 de-coaled 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.	Will be complied accordingly as per approved Mine Closure Plan.



(xix)	Beside carrying out regular periodic health check-up of their workers, 10% of workers identified from workforce engaged in active mining operation shall be subjected to health check-up for occupational diseases and hearing impairment it any, through an agency as NIOH. Ahmedabad within a period of 1 year and the results reported to this ministry and to DGMS.	Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken periodically for permanent and outsider employees along with the pre-medical examination of persons employed, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 & rules 1956 and amendments there to. The various tests include PFT, X-Ray, and lung spirometry etc.
		Workers are provided with protective respiratory devices & time to time training on safety & health aspects is being provided. A full time qualified Occupational health doctor with provision of Occupational Health center has been provided near the mines area.
(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)	A detailed R&R plan for the life of the project comprising land losers, 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&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&R colony and completion of various works for civic amenities in	A detailed R&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. A master plan for the R&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. R&R activities related to the project including establishment of R&R colony, if required shall be taken up as per the R&R Plan as approved by concerned Authority.

colony. R&R shall include setting of an ITI for training & skill development amongst the persons to be employed and those not absorbed for beina 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&R affected person by double/triple displacement shall be compensated as per norms. R&R for Phase - I shall be completed within vear of grant of environmental clearance.

A sub-committee comprising of 3 Experts of Appraisal Committee shall monitor the compliance of implementation of Phase-I of R&R and beyond if required 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&R Plan may need to be revised as per the provision of LARR Act 2013.

In addition to this it may also be noted that R&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&R on 18.02.2016 for the same.

The R&R Scheme prepared by District Administration has been approved.

(xxii)

Peripheral village of Parasbania, Chattabad. Orbetta. 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 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 detailed pre-mining socioeconomic survey based on the UNDP Human Development Report quality of life and parameters and monitor the socioeconomic 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

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.

	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.	
(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 closure 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 March' 2018
(i)	No change in technology and scope of work shall be made without prior approval of the Ministry of Environment and Forest	
(ii)	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	Quantum of mineral coal and wast dumping will be kept within the planner 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, So2 and NOx. 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 atleast once in 6 months	The Project has established four Ambient Air Quality monitoring stations in the core zone at villages Rohraband, Tasra Kandra & Chasnalla and Four Ambient Air Quality Monitoring stations in the buffer zone at villages Amlabad, Baghmara jharia and Johradih for monitoring PM10 PM2.5, SO2, NOx. Monitoring of AAQ is being carried out twice in a week Monitoring of heavy metals i.e Hg, As, Nir Cd, Cr, is also done on quarterly basis The monitoring report reveals that all the parameter are well within the norm as per NAAQs notifications made by the CPCB. Environmental monitoring for AAQ is being monitored through M/s Enviro Tech Services (NABL and MoEF&CO Accredited lab).
(iv)	Data on ambient air quality (SPM, RSPM, So2 and NOx 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 October 2017 to March 2018 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	Noise level is being maintained below 85 dBA and person engaged in drilling and blasting operation is provided with earmuffs. The noise limit is well within prescribed limit. The report is attached as



	shall be provided with ear plugs/muffs.	Annexure -II
(vi)	Industrial waste water (workshop and waste water from the mine) shall be properly collected treated so as to confirm to the standards including for heavy metals, before discharge prescribed under GSR+22 (E) dated 19 May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	industrial waste water from the workshop will be collected & treated to conform to the standards prescribed. So, in this regard effluent treatment Plan with the provision of Oil and Grease Trap with sedimentation pit for treatment of workshop effluent is under construction
(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.	
(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. The Certificate of lab is attached as Annexure - IV
(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.	Persons working in dusty areas are using protective respiratory devices and they are being provided with adequate training and information on safety and health aspects. Occupational Health Surveillance Programme of the worker is being 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.
8	(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 Ministry of Environment and Forest at http://www.envfor.nic.in	Complied. Advertisement was issued in two local newspaper widely circulated around the project.
	(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	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

updated at least once every six of the report to the concerned Authorities. months so as to bring the same in The environmental monitoring data shall also be displayed at the entrance of the the public domain. The monitoring data of environmental project premises and mines office and in quality parameters (air, water, noise and corporate office and on the company's soil) and critical pollutants such as website. SPM, RPM, SO2, NOx (ambient and stack if any) and critical sectorial parameters shall displayed at the entrance of the project premises and mine office and in corporate office and on the company's website. (xvi) The project proponent shall submit Being complied 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. (xvii) The Regional Officials the Full Co-operation will be extended by SAIL of Ministry located at Bhubneshwar to State and Central Govt. Authorities as shall monitor compliance of the required. stipulated conditions. The project authorities shall extend cooperation to the officer (s) of the Regional Office by furnishing the requisite data information monitoring report. (xviii) The environmental statement for The Environmental Statement for each each financial year ending financial year shall be submitted to the 31stSeptember Form V is mandate concerned State Pollution Control Board to be submitted by the and shall also be uploaded on the Project proponent to the concerned company's website along with the status State Pollution Control Board as of compliance of EC conditions and shall prescribed under the Environment be sent to the respective Regional Offices (Protection) Act, 1986 as amended of the MoEF by e-mail. subsequently, shall also 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.

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ISO 9001/14001/OHBAS 18001 Acr. No - M31112041N

Environmental Monitoring, Testing and Services (An ISO 9001:2015, 14001:2015 and OHSAS 18001:2007 Certified Company) Recognised by MoEF (Govt. of India), Accredited by ISO/IEC-17025;2005 (NABL) & UPPCB

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Ph.: 9811736063, 9911516076

AMBIENT AIR QUALITY MONITORING AND ANALYSIS SUMMARY REPORT MONTH OF MARCH 2018

Name And Address of Customer

M/s, TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

VILLAGE	ROHRAZ	SANDH (AAQ-CZ1		VILL	AGE YAS	RA (AAQ-	(22)	The last
Sampl. Date	PMID	PM _{2.5}	SO:	NO.	Sampl. Date	PM	PM ₂₄	SO,	NO
05-03-18	71.30	45.50	9.10	15.50	05-03-18	74.30	42.50	12.60	21.8
05-03-18	72.20	45.20	10.60	19.80	08-03-18	76.60	40.50	12.20	21.9
12-03-18	72.80	44.40	10.20	18.40	12-03-18	73.20	41.50	11.00	19.8
15-03-18	75.20	43.80	12.20	22.30	15-03-18	71.40	40,60	11.80	21.5
19-03-18	76.50	44.40	11.50	19.60	19-03-18	75.40	45.50	12.50	24,0
22-03-18	71,40	42.10	10.50	23.80	22-03-18	75.50	40.20	12.60	23.1
26-03-18	74.60	41.90	11.30	19.20	26-03-18	76.60	40.10	11.90	21.60
29-03-18	75.30	45.00	10.50	19.20	29-03-18	78.70	44.50	12.10	22.70
Minimum	7L.3	41.9	9.1	15.5	Minimum	71.4	40.1	11.0	19.8
Maximum	76.50	45.50	12.20	23.80	Maximum	78.70	45.50	12.60	24.00
Average	73.71	43.97	10.72	19.71	Average	75.18	42.10	12.03	22.02
VILLA	EKAND	RA (AAO	-CZ3)	Taraban Al	VILLAC	E CHASE	AL (AAQ	CZ4)	9.6
Sampl. Date	PM ₁₀	PM _{2.5}	SO ₂	NO.	Sampl. Date	PM ₁₀	PM.	SO.	NO.
05-03-18	75.40	40.00	12.20	20.40	05-03-18	65.60	41.20	8.90	17.50
08-03-18	72.90	42.30	10.20	21.10	08-03-18	72.50	40.60	10,80	17.50
12-03-18	73.30	39.20	13.70	24.50	12-03-18	70,40	42.80	8.90	19.50
15-03-18	73.10	42.10	11.70	22.00	15-03-18	71.60	40,90	11.30	23.50
19-03-18	71.20	41.30	10.60	22.50	19-03-10	73.10	41.10	9.50	20.80
22-03-18	70.60	40.80	15.30	30.90	22-03-18	69.70	39.40	9.20	18.60
26-03-18	71.80	38.70	10.60	25.00	26-03-18	69.70	39.00	10.30	21.60
29-03-18	73.60	40.20	10.50	23.50	29-03-18	72 40	44.30	11.50	19.60
Minimum	70.6	38.7	10.2	20.4	Minimum	65.6	39.0	8.9	17.5
Maximum	75.40	42.30	15.30	30.90	Maximum	73.10	44.30	11.50	23.50
Average	72.79	40.56	12.03	24.12	Average	70.37	41.26	10.08	19.96

****End of Test Report****



Page 1 of 1

For Enviro Toch Services AUTHORIZED SIGNATORY Md. Humraj Dy. Quality marrager

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.
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Environmental Monitoring, Testing and Services

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18D 9001/14001/DHSAS 19001 Acc. No.- H31112841N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

AMBIENT AIR QUALITY MONITORING AND ANALYSIS SUMMARY REPORT MONTH OF MARCH 2018

Name And Address of Customer

: M/s, YASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

VILLA	GE AMLA	BAD (AA	Q-821)		VILLAG	EBAGH	MARA (A	AQ-BZZ)	CLAP	
Sampl. Date	PM ₁₀	PM _{2.5}	\$03	NO.	Sampl. Date	PM _{IB}	PM ₂₅	50,	NO.	
05-03-18	67.20	36.10	7.90	10.80	05-03-18	66.30	32.80	7.70	11.5	
05-03-18	63.30	37.60	8.00	14.90	08-03-18	67.80	33.70	8.20	14.5	
12-03-18	68.40	39.60	8.80	16.20	12-03-18	68.30	34.60	11.40	20.1	
15-03-18	65,20	38.40	13.70	25.20	15-03-18	62.50	35.20	12.50	21.3	
19-03-16	69.30	35.50	9.60	18.90	19-03-18	67.30	38.30	12.90	25.8	
22-03-18	68.60	39.30	9.70	20,10	22-03-18	65.90	33.80	8.40	15.0	
25-03-18	69,70	32.80	13.80	25.30	26-03-18	62.10	30.50	12.60	22.2	
29-03-18	69.50	35,00	8.20	10.60	29-03-18	68.30	35.50	8.50	14.50	
Minimum	63.3	32.8	7.9	10.6	Minimum	62.1	30.5	7.7	11.5	
Maximum	69.70	39.60	13.80	25.30	Maximum	68.30	38.30	12.90	25.80	
Average	67.42	36.67	10.14	17.79	Average	65.89	34.32	10.28	18.2	
Taxra Cost Mine						Tasra Co	and the latest and th		1	
to the	THE PERSON NAMED IN		- Ire		VILLAGE JORADIH (AAQ-824)					
VILLA		IA (AAO	BZ3)	CONTRACTOR OF THE PERSON NAMED IN	VILLA			-BZ4)	200	
	Februa		122	1000000	February-18					
Date	PM ₁₀	PM ₂₅	SO ₂	NO _x	Date	PM ₁₀	PM _{2.5}	SO	NO,	
05-03-18	66.80	32.60	7.80	13.20	05-03-18	64.30	23.50	6.60	12.30	
08-03-18	64.90	30.80	9.30	17.60	08-03-18	66,50	28.70	8.50	13.70	
12:03-18	69.30	34.70	12.50	22.60	12-03-18	69.10	32.30	9,90	17.20	
15-03-18	68.30	32.70	15.50	28.10	15-03-18	69.50	29.40	9.40	29.10	
19-03-18	69.80	34.60	12.80	24.40	19-03-18	67.50	28.00	9.60	16.10	
22-03-18	70.50	32.20	10.60	20,50	22-03-18	67.20	29.30	11.50	23.10	
26-03-18	67.50	33.80	8,80	15.70	26-03-18	63.90	28.10	10.30	19.00	
29-03-18	67.30	32.50	8,40	13.20	29-03-18	63.30	25.10	8.00	11.50	
Minimum	64.9	30.8	7.8	13.2	Minimum	63.3	23.5	6.6	11.5	
Maximum	70.50	34.70	15.50	28.10	Maximum	69.50	32.30	11.50	29.10	
Average	67.98	32.94	10.90	19.66	Average	66.41	28.02	9.19	18.26	

****End of Test Report****

ERVICES

Page 1 of 1

For Enviro-Ter UTHORIZED SIGNATORY Md. Humraj Dy. Quality manager

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Ph.: 9811736063, 9911516076

email: etslab2012@gmail.com | Website: www.etslab.asia

AMBIENT AIR QUALITY MONITORING AND ANALYSIS SUMMARY REPORT

MONTH OF FEB. 2018

Name And Address of Customer

: M/s, TASRA COAL MINING PROJECT

MS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

DHANBAD, JHARKHAND, INIDA

VILLAGE	AMLABA	AD (AAQ	821)		VILLAGE	BAGHMA	RA (AAQ	-BZ2)	ALCOHOL:	
Sampling Date	PM ₁₀	PM _{2.5}	SO ₂	NO,	Sampling Date	PM ₁₀	PM _{2.5}	502	NO,	
01-02-18	63.80	37.00	7.00	9.60	01-02-18	60,30	33.20	6.60	11.50	
05-02-18	65,60	38.00	7.20	9.80	05-02-18	63,30	34,80	7.00	12.00	
08-02-18	65.70	38.10	7.20	9.90	08-02-18	63.80	35.10	7.00	12.10	
12-02-18	61.40	35.60	6.80	9.20	12-02-18	58,30	32.10	6.40	11,10	
15-02-18	61.00	35.40	6.70	9.20	15-02-18	58,50	32.30	6,40	11.10	
19-02-18	66.00	38.30	7.30	9.90	19-02-18	62.30	34,30	6.90	11.80	
22-02-18	60.80	35.30	6.70	9,10	22-02-18	57.90	31.80	6.40	11.00	
26-02-18	61,70	35.80	6.80	9.30	26-02-18	59.10	32.50	10.60	11.20	
Minimum	60.8	35.3	6.7	9.1	Minimum	57.9	31.8	6.4	11.0	
Maximum	66.00	38.30	7.30	9.90	Maximum	63.80	35.10	10.50	12.10	
Average	63.28	36.71	6.97	9.50	Average	60.52	33.29	7.43	11.49	
VILLAG	E JHARSA	(AAQ-BZ	23)		VILLAGE JORADIH (AAQ-824)					
Sampling Date	PM ₁₀	PM _{2.5}	SO ₂	NO,	Sampling Date	PM ₁₀	PM:	SO ₂	NO.	
01-02-18	64.30	30.90	7.10	14.10	01-02-18	61.30	25.10	5.50	10.40	
05-02-18	63,80	30,60	7.00	14.00	05-02-18	62.10	25.50	5.60	10.60	
08-02-18	66.20	31,80	7.30	14,60	08-02-18	63.00	25.80	5.70	10.70	
12-02-18	61.90	29.70	6.80	13.60	12-02-18	59.30	24,30	5.30	10.10	
15-02-18	61.90	29.70	6.80	13.60	15-02-10	59.50	24.40	5.40	10,10	
A STATE OF THE PARTY OF THE PAR	65.80	31.60	11,80	18,40	19-02-18	63.50	26,00	7,60	12.10	
19-02-18	112.80					Wild Control	We den	7.14	10.10	
19-02-18 22-02-18	61,50	29.50	8.60	13.50	22-02-18	59.20	24.30	7.10	EM. 140	
AND DESCRIPTION OF STREET		29.50 29.80	8.60 6.80	13.50	22-02-18 26-02-18	58.90	24.10	5.30	10.00	
22-02-18	61,50	-	The second second	The second second		-	In the contract of the last	COLUMN TWO IS NOT THE OWNER.	CONTRACTOR OF THE PERSON NAMED IN	
22-02-18 26-02-18	61,50 62.10	29.80	6.80	13 70	26-02-18	58.90	24.10	5.30	10.00	

****End of Test Report****

ERVICES

Page 1 of 1

For Enviro-Tech Services

DRIZED SIGNATORY Md. Humraj

Dy. Quality manager

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An Environmental Analytical Laboratory

nalytical Laboratory



ISO 8001714001/OHSAS 18061 Acc. No. #30012041N

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

and the Samuel of the same of

AMBIENT AIR QUALITY MONITORING AND ANALYSIS SUMMARY REPORT MONTH OF FEB. 2018

Name And Address of Customer

: M/s, TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

VILLAGER	OHRABA	NDH (AA	Q-(Z1)		VILLAC	E TASRA	(AAQ-CZ	2)	OF ATT
Sampling Date	PMm	PM ₂₅	SO ₂	NO.	Sampling Date	PM ₁₀	PM2s	SO ₂	NO,
01-02-18	72.30	47.00	9.40	17.40	01-02-18	75.20	43.60	11.30	20.30
05-02-18	73.60	47.80	9.60	17.70	05-02-18	77.10	44,70	-11.60	20.80
08-02-18	74.20	48.20	9.60	17.80	08-02-18	77.40	44.90	11.60	20.90
12-02-18	70.30	45.70	9.10	16.90	12-02-18	73.20	42.50	11.00	19.80
15-02-18	70.50	45.80	9.20	16.90	15-02-18	73.40	42.60	11,00	19,80
19-02-18	74.50	48.40	9.70	17.90	19-02-18	77.40	44.90	13.90	20,90
22-02-18	69.90	45,40	9.10	16.80	22-02-18	72.80	42.20	13.10	19,70
28-02-18	70.60	45.90	9.20	16.90	26-02-18	72,60	42.10	10.90	19.60
Minimum	69.9	45.4	9.1	16.8	Minimum	72.6	42.1	10.9	19.6
Maximum	74.50	48.40	9.70	17.90	Maximum	77.40	44.90	13.90	20.90
Average	72.03	46.80	9.37	17.30	Average	74.91	43.45	11.92	20.23
VILLAGE	KANDRA	(AAQ-C	Z3)	NAME OF TAXABLE PARTY.	VILLAGE	CHASNA	L (AAQ-C	Z4)	STATE OF
P P	ESSUES FOR	1000				terminated by the second	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN		
Samping Date	PM ₁₀	PM _{2.5}	50,	NO.	Sampling Date	PM _{to}	PM.	SO-	NO.
01-02-18	71.00	PM _{2.5} 41.20	SO ₂ 9.90	NO ₁	Sampling Date 01-02-18	PM ₁₀ 69.40	PM _{2.5} 42.30	SO ₂	NO ₄
The second secon	-			The state of the s	The state of the s		PM _{2.5} 42.30 43.20	9.70 9.70	NO _x 18.00
01-02-18	71.00	41.20	9.90	20.60	01-02-18	69.40	42,30 43,20	9.70	18.00
01-02-18 05-02-18	71.00 72.40	41,20 42.00	9.90 10.10	20.60 21.00	01-02-18 05-02-18	69.40 69.60	42,30	9.70 9.70	18.00 18.10
01-02-18 05-02-18 08-02-18	71.00 72.40 72.90	41,20 42,00 42,30	9,90 10,10 10,20	20.60 21.00 21.10	01-02-18 05-02-18 08-02-18	69.40 69.60 71.30	42,30 43,20 44,20	9.70 9.70 10,00	18.00 18.10 18.50
01-02-18 05-02-18 08-02-18 12-02-18	71,00 72,40 72,90 69,30	41,20 42,00 42,30 40,20	9.90 10.10 10.20 9.70	20.60 21.00 21.10 20.10	01-02-18 05-02-18 08-02-18 12-02-18	69.40 69.60 71.30 67.40	42,30 43,20 44,20 41,80	9.70 9.70 10,00 9.40	18.00 18.10 18.50 17.50
05-02-18 08-02-18 12-02-18 18-02-18	71.00 72.40 72.90 69.30 69.10	41,20 42,00 42,30 40,20 40,10	9.90 10.10 10.20 9.70 9.70	20.60 21.00 21.10 20.10 20.00	01-02-18 05-02-18 08-02-18 12-02-18 16-62-16	69,40 69,60 71,30 67,40 67,60	42,30 43,20 44,20 41,80 41,90	9.70 9.70 10,00 9.40 9.50	18.00 18.10 18.50 17.50 17.60
01-02-18 05-02-18 08-02-18 12-02-18 16-02-18 19-02-18	71,00 72,40 72,90 69,30 69,10 73,20	41,20 42,00 42,30 40,20 40,10 43,20	9,90 10,10 10,20 9,70 9,70 13,20	20.60 21.00 21.30 20.10 20.00 21.20	01-02-18 05-02-18 08-02-18 12-02-18 15-02-16 19-02-18	69.40 69.60 71.30 67.40 67.60 71.10	42,30 43,20 44,20 41,80 41,90 44,10	9.70 9.70 10,00 9.40 9.50 8.50	18.00 18.10 18.50 17.50 17.60 18.50
01-02-18 05-02-18 08-02-18 12-02-18 15-02-18 19-02-18 22-02-18	71,00 72,40 72,90 69,30 69,10 73,20 68,60	41,20 42,00 42,30 40,20 40,10 43,20 39,80	9,90 10,10 10,20 9,70 9,70 13,20 12,30	20.60 21.00 21.10 20.10 20.00 21.20 19.90	01-02-18 05-02-18 08-02-18 12-02-18 16-02-18 19-02-18 22-02-18	69.40 69.60 71.30 67.40 67.60 71.10 66.70	42.30 43.20 44.20 41.80 41.90 44.10 41.40	9,70 9,70 10,00 9,40 9,50 8,50 8,00	18.00 18.10 18.50 17.50 17.60 18.50 17.30
01-02-18 05-02-18 08-02-18 12-02-18 15-02-18 19-02-18 22-02-18 26-02-18	71,00 72,40 72,90 69,30 69,10 73,20 68,60 68,80	41,20 42,00 42,30 40,20 40,10 43,20 39,80 42,70	9,90 10,10 10,20 9,70 9,70 13,20 12,30 9,60	20.60 21.00 21.10 20.10 20.00 21.20 19.90 20.00	01-02-18 05-02-18 08-02-18 12-02-18 16-02-18 19-02-18 22-02-18 26-02-18	69.40 69.60 71.30 67.40 67.60 71.10 66.70 67.70	42.30 43.20 44.20 41.80 41.90 44.10 41.40 42.00	9,70 9,70 10,00 9,40 9,50 8,50 8,00 10,80	18.00 18.10 18.50 17.50 17.60 18.50 17.60

****End of Test Report****

FOR ENTIRO-TECH SERVICES
CHECKER BY

CHECK

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Md. Humraj

Dy. Quality manager

Note:

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Acc. No.- M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/279-13/01/2018

DATE OF REPORT :24-01-2018

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,

19-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 18-01-2018

Analysis Start Date

: 21-01-2018

Analysis End Date

22-01-2018

Duration Of Sampling

18-01-2018

279-13/01

Sampling Done By

Sample ID No

Sampling Location

ETS STAFF

Sampling Method

Weather Condition

TASRA (AAQ-CZ2) ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr. CLEAR

(From Ground)

*** Onto	or containon	CLEAR		Ambient Temperature	: 16.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m³	80.1	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m³	48.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	12.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.64	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	22.4	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	28.0	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	(S: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual≈20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	1.04	For 24 Hrs.=5	IS: 5182 (Part-11)
12,	Arsenic (As)	ng/m³	N.D.	For Annual=06	IS: 5182 (Part-22)
					CONTRACTOR OF THE PROPERTY OF

****End of Test Report****

ECH SERVICES

Format no ETS /LAB/TR-01 Issue No 04 dt 01/06/2015 Rev No 03 dt 01/06/2016

For Enviro-Tech Services

AUTHORIZED SIGNATURY aj

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Page 1 of 1

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(SO 9001/14001/OHSAS 1800 Acc. No.- M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

l Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/279-12/01/2018

DATE OF REPORT :24-01-2018

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,

19-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

1 18-01-2018

Analysis Start Date

: 21-01-2018

Analysis End Date

22-01-2018

Duration Of Sampling

18-01-2018

Sample ID No

Sampling Done By

279-12/01

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

S. No.		: CLEAR	-	Ambient Temperature	: 16.0 °C
O. 140.	Test Parameters	Unit	Result		
1,	Particulate Matter (PM10)	Control of	-	(as Per CPCB)	Test Method
2.	Parsculate Matter (PM2.5)	µg/m³	81.4	For 24 Hrs.=100	10: E400 m
3.		µg/m²	52.9	For 24 Hrs.=60	IS: 5182 (Part-23)
	Sulphur Dioxide (SO2)	µg/m³	9.0		Gravimetric Method
4.	Carbon Monoxide (CO)	mg/m³		For 24 Hrs.=80	IS: 5182 (Part-2)
5.	Nitrogen Dioxide (NO2)		0.57	For 8 Hrs. =02 / For 1 Hrs. =04	IS: 5182 (Part-10)
6.	Lead (Pb)	h8/m ₂	17.9	For 24 Hrs.=80	
7.		ha/m,	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-6)
22	Ozone (O3)	µg/m ³	26.9		IS: 5182 (Part-22)
3.	Ammonia (NH3)	µg/m ^o	-	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
9.	Benzo (a) Pyrine (BaP)	2.77	NIL.	For 24 Hrs.=400	Indophenol Blue Method
	Nickel (Ni)	ng/m³	N.D.	For Annual=01	
-		ng/m"	N.D.	For Annual=20	IS: 5182 (Part-12)
	Benzene (C6H6)	µg/m³	1.22		IS: 5182 (Part-22)
. 1	Arsenic (As)	ng/m ^e	-	For 24 Hrs.=5	IS: 5182 (Part-11)
		- Sym	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

Note:-

Format no ETS /LAB/TR-01 Issue No 04 dt 01/05/2016 Rev No 03 dt 01/05/2016

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OH SERVICES



An Environmental Analytical Laboratory

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

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

TEST REPORT

TEST REPORT NO: ETS/279-15/01/2018

DATE OF REPORT :24-01-2018

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.

19-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 18-01-2018

Analysis Start Date

: 21-01-2018

Analysis End Date

: 22-01-2018

Duration Of Sampling

: 18-01-2018 T

10-01-201

Sampling Done By

Sample ID No

: 279-15/01

Sampling Location

: ETS STAFF

Sampling Method

: CHASNALA (AAQ-CZ4) : ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

24.0 HOURS

:16.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1	Particulate Matter (PM10)	µg/m³	74.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	46.2	For 24 Hrs.#60	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m³	10.4	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.67	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	17.1	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	28.3	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	1.27	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m³	N.D.	For Annual=08	IS: 5182 (Part-22)
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****End of Test Report****

FOR ENVIRO TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

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

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.

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.





Environmental Monitoring, Testing and Services

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Acc. No. - M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/279-14/01/2018

DATE OF REPORT :24-01-2018

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,

19-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

18-01-2018

Analysis Start Date

21-01-2018

Analysis End Date

22-01-2018

Duration Of Sampling

18-01-2018 To

Sample ID No

279-14/01

Sampling Done By

ETS STAFF

Sampling Location

: KANDRA (AAQ-CZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr. : CLEAR

(From Ground)

35.80		· GULTAR		Ambient Temperature	: 16.0 °C
S. No,	root ratameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ^a	77.4		AND
2.	Particulate Matter (PM2.5)		75.9	For 24 Hrs.=100	IS: 5182 (Part-23)
3.		µg/m³	44.0	For 24 Hrs.=60	Gravimetric Method
0.	Sulphur Dioxide (802)	µg/m²	10.6	For 24 Hrs.=80	
4.	Carbon Monoxide (CO)	mg/m³	0.72		IS: 5182 (Pert-2)
5.	Nitrogen Dioxide (NO2)		- 777.5	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
6.	Lead (Pb)	µg/m²	20.5	For 24 Hrs.=80	IS: 5182 (Part-6)
		µg/m³	N.D.	For 24 Hrs.=1.0	
7.	Ozone (O3)	µg/m³	28.8		IS: 5182 (Part-22)
8.	Ammonia (NH3)	100000000000000000000000000000000000000		For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
		µg/m°	NIL	For 24 Hrs.=400	Indophenol Blue Method
_	Benzo (a) Pyrine (BaP)	ng/m ⁴	N.D.	For Annual=01	IS: 5182 (Part-12)
0.	Nickel (Ni)	ng/m"	N.D.	The state of the s	
1.	Benzene (C6H6)	100000000000000000000000000000000000000		For Annual=20	IS: 5182 (Part-22)
	Arsenic (As)	h8/m ₃	1.29	For 24 Hrs.≈5	IS: 5182 (Part-11)
1	niaciliu (AS)	ng/m³	N.D.	For Annual=05	IS: 5182 (Part-22)

****End of Test Report****

CH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORNIA Dy. Quality manager

Note:-

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

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.

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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SO 9001/14001/DHSAS 18001 Acc. No.- M31112061N

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

TEST REPORT

TEST REPORT NO : ETS/279-17/01/2018

DATE OF REPORT :24-01-2018

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, INIDA

Date of Sampling

18-01-2018

Analysis Start Date

: 21-01-2018

Analysis End Date

22-01-2018

Duration Of Sampling

18-01-2018 To

19-01-2018

24.0 HOURS

Sample ID No

279-17/01

Sampling Done By

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr. CLEAR

		CLEAR		Ambient Temperature	: 16.0 °C
S. No.	, and a similar	Unit	Result	Specification# Inda	Test Method
1.	Particulate Matter (PM10)	µg/m³	69.9	For 24 Hrs.=100	19: 5190 /D-1 00
2	Particulate Matter (PM2.5)	µg/m³	38.4	For 24 Hrs.=60	IS: 5182 (Part-23)
3.	Sulphur Dioxide (SO2)	µg/m³			Gravimetric Method
4.	Carbon Monoxide (CO)		7.7	For 24 Hrs.=80	IS: 5182 (Part-2)
		mg/m ³	0.52	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	18.2	For 24 Hrs.=80	IS: 5182 (Part-6)
6,	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	
7.	Ozone (O3)	µg/m ³	-		IS: 5182 (Part-22)
8.	Ammonia (NH3)		16.1	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
9.		hā/m²	NIL	For 24 Hrs.=400	Indophenol Blue Method
37/	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
10,	Nickel (Ni)	ng/m³	N.D.	For Annual=20	
1,	Benzene (C6H6)	µg/m³			IS: 5182 (Part-22)
-	Arsenic (As)		1.26	For 24 Hrs.=5	IS: 5182 (Part-11)
	resource (ris)	ng/m²	N.D.	For Annual=08	18: 5182 (Part-22)

(From Ground)

****End of Test Report****

CH SERVICES

Page 1 of 1

For Enviro-Tech Services

Note:-

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

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

The samples received small 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.





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ISO 9001/14001/CHSAS 16001 Acc. No.- M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/279-16/01/2018

DATE OF REPORT :24-01-2018

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,

19-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 18-01-2018

Analysis Start Date

: 21-01-2018

Analysis End Date

22-01-2018

Duration Of Sampling

18-01-2018

24.0 HOURS

Sample ID No

: 279-16/01

Sampling Done By

ETS STAFF

Sampling Location Sampling Method

AMLABAD (AAQ-BZ1)

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

		2.72		Amorem remperature	: 16.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m³	71.9	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m³	41.7	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	7.9	For 24 Hrs.=80	IS: 5182 (Pert-2)
4.	Carbon Monoxide (CO)	mg/m ^a	0.65	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	13.7	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pt)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	29.5	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (NI)	ng/m³	N.D.	For Annual=20	
11.	Benzene (C6H6)	µg/m³	0.72	For 24 Hrs.=5	IS: 5162 (Part-22)
12.	Arsenic (As)	ng/m²	N.D.	For Annual=08	IS: 5182 (Part-11) IS: 5182 (Part-22)

****End of Test Report***

ECH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORYTAL Dy. Quality manager

Format no ETS /LAB/TR-01 | Issue No 04 dt 01/05/2016 | Rev No 03 dt 01/05/2016

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2. The samples received shall be destroyed after one month from the date of test report issued.

The results indicated only refer to the tested samples and listed applicable parameters.





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

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO: ETS/279-19/01/2018

DATE OF REPORT :24-01-2018

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, INIDA

Date of Sampling

: 18-01-2018

Analysis Start Date

: 21-01-2018

Analysis End Date

22-01-2018

Duration Of Sampling

18-01-2018 To

19-01-2018

24.0 HOURS

Sample ID No

279-19/01

Sampling Done By

ETS STAFF

Sampling Location

JORADIH (AAQ-BZ4)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr. (From Ground)

Weather Condition

CIEAN

		: CLEAR		Ambient Temperature	116.0 °C
S. No.	Test t di dineters	Unit	Resuit	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	70.9	For 24 Hrs.=100	IC: 5192 (Ded 20)
2.	Particulate Matter (PM2.5)	µg/m³	38.3	For 24 Hrs.=60	IS: 5182 (Part-23)
3.	Sulphur Dioxide (802)	µg/m²	37.700		Gravimetric Method
4.	Carbon Monoxide (CO)		6.4	For 24 Hrs.=80	18: 5182 (Part-2)
		mg/m²	0.39	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m ³	13.5	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs = 1.0	
7.	Ozone (O3)	µg/m³	-	The second of th	IS: 5182 (Part-22)
8.	Ammonia (NH3)		19.1	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
9.		µg/m²	NIL	For 24 Hrs.=400	indophenol Blue Method
700	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
0.	Nickel (Ni)	ng/m³	N.D.	For Annual=20	
1.	Benzene (C6H6)	µg/m³			IS: 5182 (Part-22)
2.	Arsenic (As)		0.71	For 24 Hrs.=5	(S: 5182 (Part-11)
-	Atabilio (As)	ng/m³	N.D.	For Annual=08	IS: 5182 (Part-22)

****End of Test Report****

ECH SERVICES

Page 1 of 1

For Enviro-Tech Services

Note:-

Format no ETS /LAB/TR-01 | Issue No 04 dt 01/05/2016 | Rev No 03 dt 01/06/2016

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2. The samples received shall be destroyed after one month from the date of test report issued.

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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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/279-18/01/2018

DATE OF REPORT :24-01-2018

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, INIDA

Date of Sampling

18-01-2018

Analysis Start Date

21-01-2018

Analysis End Date

22-01-2018

Duration Of Sampling

18-01-2018 To

19-01-2018

24.0 HOURS

Sample ID No

279-18/01

Sampling Done By

ETS STAFF

Sampling Location

JHARIA (AAQ-BZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr.

(From Ground)

S. No.	Test Parameters	Grant Control		Specification	: 16.0 °C
	Two Carameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m³	72.6		
2.	Particulate Matter (PM2.5)	1000		For 24 Hrs.=100	18: 5182 (Part-23)
3.	Sulphur Dioxide (SO2)	hā/m _a	34.8	For 24 Hrs,≈60	Gravimetric Method
		h8/m ₃	8.0	For 24 Hrs.=80	
4.	Carbon Monoxide (CO)	mg/m²	0.44	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-2)
5,	Nitrogen Dioxide (NO2)	µg/m³	2000		(S: 5182 (Part-10)
6.	Lead (Pb)		18.2	For 24 Hrs.=80	IS: 5182 (Part-6)
7.		µg/m³	N.D.	For 24 Hrs.=4.0	IS: 5182 (Part-22)
100	Ozone (O3)	µg/m³	20.3	For 8 Hrs.=100/ For 1 Hrs.=180	
8.	Ammonia (NH3)	µg/m²	-		IS: 5182 (Part-9)
9.	Benzo (a) Pyrine (BaP)		NIL	For 24 Hrs.=400	Indephenol Blue Method
0.	Nickel (Ni)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
		ng/m"	N.D.	For Annual=20	
	Benzene (C6H6)	pg/m ³	0.73	For 24 Hrs.=5	IS: 5182 (Part-22)
2.	Arsenic (As)	ng/m³	2001		IS: 5182 (Part-11)
		- Tragerity	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report***

CH SERVICES

Page 1 of 1

For Enviro-Tech Services

Formal no ETS /LAB/TR-01 Issue No 04 dt 01/08/2016 Rev No 03 dt 01/06/2016

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 inboratory.

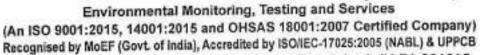
2. The samples received shall be destroyed after one month from the date of test report issued. 3. The results indicated only refer to the tested samples and listed applicable parameters.

4. Our liability is limited to invoice value only.

Notes-



An Environmental Analytical Laboratory





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

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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO: ETS/46/195-02/10/2017

DATE OF REPORT :31-01-2018

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, INIDA

Date of Sampling

: 22-01-2018

Analysis Start Date

: 25-01-2018

Analysis End Date

: 27-01-2018

Duration Of Sampling

22-01-2018 To 23-01-2018

24.0 HOURS

Sample ID No

195-02/10

Sampling Done By

: ETS STAFF

Sampling Location

: TASRA (AAQ-CZ2)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr. CLEAR

Ambient Temperature

: 17.0 °C

				Competence	111.00
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1. 7	Particulate Matter (PM10)	µg/m²	77.4	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m³	44.9	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m²	11.6	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CC)	mg/m²	0.62	For 8 Hrs.=02 / For 1 Hrs.=04	IS; 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	21.7	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	27.1	Far 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.#400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual≃01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m²	1.01	For 24 Hrs.=5	IS: 5182 (Part-11)
12	Arsenic (As)	ng/m³	N.D.	For Annual=08	IS: 5182 (Part-22)

(From Ground)

****End of Test Report****

CH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY 3 Dy: Quality manager

Format no ETS /LAB/TR-01 | Issue No 04 dt 01/06/2016 | Rev No 03 dt 01/06/2018

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.

The samples received shall be destroyed after one month from the date of test report issued.

The results indicated only refer to the tested samples and listed applicable parameters.



An Environmental Analytical Laboratory



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Acc. No.- M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/195-01/10/2017

DATE OF REPORT :31-01-2018

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, INIDA

Date of Sampling

: 22-01-2018

Analysis Start Date

25-01-2018

Analysis End Date

27-01-2018

Duration Of Sampling

22-01-2018

23-01-2018

24.0 HOURS

Sample ID No

195-01/10

Sampling Done By

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

: 17.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	µg/m²	78.7	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m³	51.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	8.7	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.55	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	17.3	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	26.0	For 8 Hrs.=100/ For 1 Hrs.=180	IS; 5182 (Part-9)
8.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m²	1.18	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m²	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

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

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

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

TEST REPORT

TEST REPORT NO: ETS/46/195-04/10/2017

DATE OF REPORT :31-01-2018

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,

23-01-2018

24.0 HOURS

DHANBAD, JHARKHAND, INIDA

Date of Sampling

22-01-2018

Analysis Start Date

25-01-2018

Analysis End Date

: 27-01-2018

Duration Of Sampling

22-01-2018 To

Sample ID No

195-04/10

Sampling Done By

ETS STAFF

Sampling Location

CHASNALA (AAQ-CZ4)

Sampling Method

ETS/STP/AIR-D1

Sampling Machine Placed At Height Weather Condition

3.5 mtr. CLEAR

Ambient Tomporeture

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	µg/m³	71.8	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	44.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m³	10.1	For 24 Hrs.=80	iS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.65	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	16.5	For 24 Hrs. #80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	27.3	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	μg/m³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m³	N.D.	For Annual≈20	
1.	Benzene (C6H6)	µg/m²	1.22	For 24 Hrs.=5	IS: 5182 (Part-22)
2.	Arsenic (As)	ng/m³	N.D.	For Annual=08	IS: 5182 (Part-11) IS: 5182 (Part-22)

(From Ground)

****End of Test Report****

Page 1 of 1

TECH SERVICES

Format no ETS /LAB/TR-01 Issue No 04 at 01/05/2016 Rev No 03 at 01/05/2016

AUTHORIZED STONATORY

For Enviro-Tech Services

Dy. Quality manager

Note:

1. This test export shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory. The samples received shall be destroyed after one month from the date of test report issued.

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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An Environmental Analytical Laboratory



Environmental Monitoring, Testing and Services

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Acc. No.- M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/46/195-03/10/2017

DATE OF REPORT :31-01-2018

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.

23-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

22-01-2018

Analysis Start Date

25-01-2018

Analysis End Date

27-01-2018

Duration Of Sampling

: 22-01-2018

195-03/10

Sample ID No Sampling Done By

Sampling Location

ETS STAFF

Sampling Method

KANDRA (AAQ-CZ3) ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

17.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	pg/m ²	73.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m³	42.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	10.2	For 24 Hrs.=80	IS: 5182 (Pert-2)
4.	Carbon Monoxide (CO)	mg/m²	0.70	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	19.8	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	27.8	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.=400	indophenol Blue Metho
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	1.24	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ^a	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

NVIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SYGNATORY Dy. Quality manaser

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

I. 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.

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.



Acc. No. - M31112041N



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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/195-06/10/2017

DATE OF REPORT :31-01-2018

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, INIDA

Date of Sampling

: 22-01-2018

Analysis Start Date

25-01-2018

Analysis End Date

27-01-2018

Duration Of Sampling

22-01-2018

23-01-2018

24.0 HOURS

Sample ID No

195-06/10

Sampling Done By

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

1 3.5 mtr. : CLEAR

Ambient Temperature

- 17 0 %

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	h8/m _a	67.2	For 24 Hrs,=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m³	37.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	7.4	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.50	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	17.5	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	15.5	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	μg/m²	NIL	For 24 Hrs.#400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual+01	IS: 5182 (Part-12)
10.	Nickel (NI)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	1.21	For 24 Hrs.=5	IS: 5182 (Part-11)
2.	Arsenic (As)	ng/m²	N.D.	For Annual=06	IS: 5182 (Part-22)

(From Ground)

""End of Test Report""

CH SERVICES

Page 1 of 1

For Enviro-Tech Services

Note:-

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

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 Inboratory.

The samples received shall be destroyed after one month from the date of test report issued.

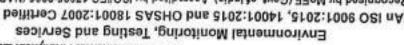
3. The results indicated only refer to the tested samples and listed applicable parameters.



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Ph.: 9811736063, 9911516076

TRO93R TEST

DATE OF REPORT :31-01-2018

24.0 HOURS

TROGER AIR QUALITY MONITORING AND ANALYSIS REPORT

22-01-2018

27-01-2018 SS-01-2018

8105-10-25

FTS STAFF 01/90-961

Bampling Method

FTS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

Specification/Limit

(From Ground)

347.0 °C

Page 1 of 1

C'N

69.0

'U'N

M.D.

TIN

28.4

O.N.

13.1

29.0

9.7

1.04

2.69

Result

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_ew/6rl

այես

,w/6u

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,w/6ri

w/5rl

,w/6rl

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,w/Brl

_ew/6rl

,wy6rl

HinU

Ambient Temperature

80≖leunnA 107

For 24 Hrs.=5

For Annual=20

FO=|BunnA 10-]

For 24 Hrs =400

For 8 Hrs.=100/ For 1 Hrs.=180

For 24 Hrs.=1.0

For 24 Hrs.=80

For 8 Hrs.=02 / For 1 Hrs.=04

For 24 Hrs,=80

For 24 Hrs. #80

For 24 Hrs.=100

(as Per CPCB)

Arsenic (As)

(N) lexbild

geuseue (ceHe)

(KHM) sinommA

Ozone (O3)

Lead (Pb)

Benzo (a) Pyrine (BaP)

Nitrogen Dioxide (NO2)

Carbon Monoxide (CO)

Sulphur Dioxide (SO2)

Parficulate Matter (PM2 5)

(DIMY) hatteM eletuohis9

CLEAR

Weather Condition

(FSB-DAA) GABAJMA

Test Parameters

Sampling Location

Sampling Done By

ON CI DIQUES

Duration Of Sampling

Analysis End Date

oted hate sizylanA Date of Sampling

AGINI , GNAHXRAHL , GABNAHO

23-01-2018

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASUALA,

TASRA COAL MINING PROJECT Name And Address of Customer

TEST REPORT NO : ETS/46/195-05/10/2017

eise.delab2012@gmail.com | Website : www.etslab.asia

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

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For Enviro-Tech Services

End of Test Report IS: 5182 (Part-22)

IS: 5182 (Pert-11)

IS: 5182 (Part-22)

(S1-h69) S818 (81

indophenol Blue Method

(9-hsq) S818 :SI

(SS-heq) S818 (Pan-22)

(8-hsq) S818:S1

IS: 5182 (Part-10)

18: 5162 (Pert-2)

Gravimetric Method

(ES-7189) 2818 (Part-23)

Test Method

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ENVIRONTECH SERVICES

CHECKED BY

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Acc. No.- M31112041N

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Ph.: 9811736063, 9911516076

24.0 HOURS

email: etslab2012@gmail.com | Website: www.etslab.asia

TEST REPORT

TEST REPORT NO : ETS/46/195-08/10/2017

DATE OF REPORT:31-01-2018

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.

23-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 22-01-2018

Analysis Start Date

25-01-2018

Analysis End Date

27-01-2018

Duration Of Sampling

22-01-2018

195-08/10

Sample ID No

Sampling Done By

ETS STAFF

Sampling Location

JORADIH (AAQ-BZ4)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

: 17.0 °C

Weather Condition

: CLEAR

Ambient Temperature

Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
Particulate Matter (PM10)	µg/m³	68.2	For 24 Hrs.=100	IS: 5182 (Part-23)
Particulate Matter (PM2.5)	ha/w ₃	28.0	For 24 Hrs.=60	Gravimetric Method
Sulphur Dioxide (802)	µg/m³	6.1	For 24 Hrs.=80	IS: 5182 (Pert-2)
Carbon Monoxide (CO)	mg/m³	0.38	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
Nitrogen Dioxide (NO2)	µg/m³	13.0	For 24 Hrs.=80	IS: 5182 (Part-6)
Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
Ozone (O3)	µg/m²	18.4	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indophenol Blue Method
Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
Nickel (NI)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-22)
Benzene (C6H6)	μg/m³	0.68	For 24 Hrs.=5	IS: 5182 (Part-11)
Arsenic (As)	ng/m ^a	N.D.	For Annual=06	IS: 5182 (Part-22)
	Particulate Matter (PM10) Particulate Matter (PM2.5) Sulphur Dioxide (SO2) Carbon Monoxide (CO) Nitrogen Dioxide (NO2) Lead (Pb) Ozone (O3) Ammonia (NH3) Benzo (a) Pyrine (BaP) Nickel (NI) Benzene (C6H6)	Particulate Matter (PM10) μg/m³ Particulate Matter (PM2.5) μg/m³ Sulphur Dioxide (SO2) μg/m³ Carbon Monoxide (CO) mg/m³ Nitrogen Dioxide (NO2) μg/m³ Lead (Pb) μg/m³ Ozone (O3) μg/m³ Ammonia (NH3) μg/m³ Benzo (a) Pyrine (BaP) ng/m³ Nickel (NI) ng/m³ Benzene (C8H6) μg/m³	Particulate Matter (PM10) μg/m³ 68.2 Particulate Matter (PM2.5) μg/m³ 28.0 Sulphur Dioxide (SO2) μg/m³ 6.1 Carbon Monoxide (CO) mg/m³ 0.38 Nitrogen Dioxide (NO2) μg/m³ 13.0 Lead (Pb) μg/m³ N.D. Ozone (O3) μg/m³ N.D. Ammonia (NH3) μg/m³ N.D. Benzo (a) Pyrine (BaP) ng/m³ N.D. Nickel (NI) ng/m³ N.D. Benzene (C6H6) μg/m³ 0.68	Particulate Matter (PM10)

****End of Test Report*

H SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY Dy. Quality manager

Format no ETS /LAB/TR-01 Issue No 04 at 01/05/2016 Rev No 03 at 01/06/2016

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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.



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Acc. No.- M31112041N

Environmental Monitoring, Testing and Services

(An ISO 9001:2015, 14001:2015 and OHSAS 18001:2007 Certified Company) Recognised by MoEF (Govt. of India), Accredited by ISO/IEC-17025:2005 (NABL) & UPPCB

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

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

TEST REPORT

TEST REPORT NO : ETS/46/195-07/10/2017

DATE OF REPORT :31-01-2018

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,

23-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 22-01-2018

Analysis Start Date

25-01-2018

Analysis End Date

27-01-2018

Duration Of Sampling

22-01-2018

Sample ID No

Sampling Done By

195-07/10

Sampling Location

ETS STAFF

Sampling Method

JHARIA (AAQ-BZ3) : ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

24.0 HOURS

		· OLCAR	4	Ambient Temperature	: 17.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
4.	Particulate Matter (PM10)	µg/m²	69.9		
2	Particulate Matter (PM2.5)	[1] [1] [2] [2] [2] [3] [4]		For 24 Hrs.=100	S: 5182 (Part-23)
3	Suprur Dioxide (SO2)	hā/w,	33.6	For 24 Hrs.=60	Gravimetric Method
		h8/m _a	7.7	For 24 Hrs.=80	
	Carbon Monoxide (CO)	mg/m ³	0.42	For 8 Hrs.=02 / For 1 Hrs.=04	i8: 5182 (Part-2)
5	Nêrogen Dioxide (NO2)	µg/m²			IS: 5182 (Part-10)
*	Lead (Pb)		17.5	For 24 Hrs,=80	IS: 5182 (Part-6)
	Specification of the second of	µg/m ^a	N.D.	For 24 Hrs.=1.0	
	Ozone (O3)	µg/m³	19.6	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-22)
	Ammonia (NH3)	µg/m³			IS: 5182 (Part-9)
	Benzo (a) Pyrine (BaP)	- 2.50	NIL	For 24 Hrs.=400	Indophenol Blue Metho
_	vickel (Ni)	ng/m ³	N.D.	For Annual=01	(S: 5182 (Part-12)
		ng/m ^a	N.D.	For Annual=20	
. 8	lenzene (C6H6)	µg/m³	1000 1000		IS: 5182 (Part-22)
A	rsenic (As)	100	0.70	For 24 Hrs.=5	IS: 5182 (Part-11)
	Total Control	ng/m³	N.D.	For Annual=08	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1

ECH SERVICES

Format no ETS /LAB/TR-01 | Issue No 04 at 01/06/2016 | Ray No 03 at 01/06/2016

For Envirg-Teen Services

AUTHORIZED SIGNATORY

Dy. Quality manager

1. This assureport 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 Exhibity is limited to invoice value only.

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email: etslab2012@gmail.com |

Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/195-10/10/2017

DATE OF REPORT :31-01-2018

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, INIDA

Date of Sampling

: 27-01-2018

Analysis Start Date

: 30-01-2018

Analysis End Date

: 31-01-2018

Duration Of Sampling

: 27-01-2018

28-01-2018

24.0 HOURS

Sample ID No

: 195-10/10

Sampling Done By

ETS STAFF

Sampling Location

: TASRA (AAQ-CZ2)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr. : CLEAR

Ambient Temperature

: 16.0 °C

				ramerens rempenature	. 10.0
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	μg/m³	76.7	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	μg/m³	44.5	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Dioxide (SO2)	µg/m²	11.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.61	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	21.5	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	26.8	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m²	1.00	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m³	N.D.	For Annual=06	IS: 5182 (Part-22)
	19 - C. Light Control - Sept. 1	1.00		110000100000000000000000000000000000000	The state of the s

(From Ground)

****End of Test Report****

Page 1 of 1

ON MANAGEM

For Enviro-Tech Services

AUTHORIZED SIGNATORY:
Dy. Quality manager

Format no ETS /LAS/TR-01 Issue No 04 dt 01/08/2016 Rev No 03 dt 01/08/2016

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.

CH SERVICES

4. Our liability is limited to invoice value only.

Note:-





Acc. No.- M31112041N

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

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

TEST REPORT

TEST REPORT NO: ETS/46/195-09/10/2017

DATE OF REPORT:31-01-201/

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,

28-01-2018

24.0 HOURS

DHANBAD, JHARKHAND, INIDA

Date of Sampling

27-01-2018

Analysis Start Date

: 30-01-2018

Analysis End Date

31-01-2018

Duration Of Sampling

: 27-01-2018

Sample ID No

195-09/10

Sampling Done By

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

: 16.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m³	78.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m³	50.7	For 24 Hrs.=80	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m²	8.6	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.55	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	17.2	For 24 Hrs.=80	IS: 5182 (Part-6)
5.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	25.7	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m³	N.D.	For Annual=20	(S: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m ³	1.17	For 24 Hrs.=5	IS: 5182 (Part-11)
2.	Arsenic (As)	ng/m³	N.D.	For Annual=08	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

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

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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.

RO-TECH SERVICES



An Environmental Analytical Laboratory

Environmental Monitoring, Testing and Services

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

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/195-12/10/2017

DATE OF REPORT :31-01-2018

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.

28-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

27-01-2018

Analysis Start Date

30-01-2018

Analysis End Date

31-01-2018

Duration Of Sampling

27-01-2018

195-12/10

Sample ID No Sampling Done By

Sampling Location

ETS STAFF

Sampling Method

CHASNALA (AAQ-CZ4)

Sampling Machine Placed At Height

ETS/STP/AIR-01 : 3.5 mtr.

(From Ground)

Weather Condition

CLEAD

	Programmer.	GLEAR		Ambient Temperature	:16.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1-	Particulate Matter (PM10)	µg/m³	71.1	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	44.1	For 24 Hrs.=60	Gravimetric Method
3,	Sulphur Dioxide (SO2)	µg/m³	10,0	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.64	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5,	Nitrogen Dioxide (NO2)	µg/m³	16.4	For 24 Hrs.=80	IS: 5182 (Part-6)
6	Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	27.0	For 8 Hrs.=100/ For 1 Hrs.=180	
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.=400	IS: 5182 (Part-9) Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	
10.	Nickel (NI)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-12)
11.	Benzene (C6H6)	µg/m³	1.21	For 24 Hrs.=5	IS: 5182 (Part-22)
12.	Arsenic (As)	ng/m²	N.D.	For Annual=06	IS: 5182 (Part-11) IS: 5182 (Part-22)

****End of Test Report****

NVIRO-FECH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

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

by, Quality manager 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.

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.

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Note:-



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ISO 9001/14001/OHSAS 1800 Acc. No.- M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asla

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/195-11/10/2017

DATE OF REPORT :31-01-201

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,

28-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 27-01-2018

Analysis Start Date

30-01-2018

Analysis End Date

31-01-2018 To

Duration Of Sampling

27-01-2018

Sample ID No

195-11/10

Sampling Done By Sampling Location

: ETS STAFF

Sampling Method

: KANDRA (AAQ-CZ3) : ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

-		Service Control of Control		Ambient Temperature	: 16.0 °C
S. No.	Tour arameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	μg/m³	72.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	42.1	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m³	10.2	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.69	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m²	19.6	For 24 Hrs.=80	IS: 5182 (Part-8)
6.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	hB/w _a	27.6	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
1.	Benzene (C6H6)	µg/m³	1.23	For 24 Hrs.=5	IS: 5182 (Part-11)
2,	Arsenic (As)	ng/m³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

CH SERVICES

Format no ETS /LAB/TR-01 Issue No 04 at 01/06/2016 Rev No 03 at 01/06/2018

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The samples received shall be destroyed after one mouth 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.

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY



An Environmental Analytical Laborator.



Acc. No.- M31112061N

ISO 9001/14001/OHSAS 1800

Environmental Monitoring, Testing and Services

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Ph.: 9811736063, 9911516076

24.0 HOURS

email: etslab2012@gmail.com | Website: www.etslab.asia

TEST REPORT

TEST REPORT NO : ETS/46/195-14/10/2017

DATE OF REPORT :31-01-2018

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,

28-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 27-01-2018

Analysis Start Date

: 30-01-2018

Analysis End Date

: 31-01-2018

Duration Of Sampling

27-01-2018

Sample ID No

195-14/10

Sampling Done By

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr. CLEAR

			_	Ambient remperature	: 18.0 °C
S. No.	- Cot Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	66.5		
2.	Particulate Matter (PM2.5)	- 100	0.0000000	For 24 Hrs.=100	IS: 5182 (Part-23)
3.	Sulphur Dioxide (802)	h8/m ₂	36.6	For 24 Hrs.=60	Gravimetric Method
		µg/m³	7.3	For 24 Hrs.=80	18: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.50	For 8 Hrs.=02 / For 1 Hrs.=04	
5.	Nitrogen Dioxide (NO2)	µg/m²			IS: 5182 (Part-10)
6.	Lead (Pb)	100000000000000000000000000000000000000	17.3	For 24 Hrs.=80	IS: 5182 (Part-6)
		hB/m ₃	N.D.	For 24 Hrs,=1.0	(8: 5182 (Part-22)
7,	Ozone (O3)	µg/m³	15.3	For 8 Hrs.=100/ For 1 Hrs.=180	
8.	Ammonia (NH3)	µg/m²	NIL		IS: 5182 (Part-9)
9.	Benzo (a) Pyrine (BaP)		25,200	For 24 Hrs.=400	Indophenol Blue Metho
		ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
	Nickel (Ni)	ng/m ^d	N.D.	For Annual=20	
	Benzene (C6H8)	µg/m²	1.20		IS: 5182 (Part-22)
2.	Arsenic (As)		10/01	For 24 Hrs.=5	IS: 5182 (Part-11)
	Post Talker (1914)	ng/m ^d	N.D.	For Annual=08	IS: 5182 (Part-22)

(From Ground)

****End of Test Report****

Page 1 of 1

ECH SERVICES

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

For Enviro-Tech Services

AUTHORIZED SIGNATURYS Dy. Quality manager

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 mouth from the date of test report issued. 3. The results indicated only refer to the tested samples and listed applicable parameters.



An Engironmental Analytical Laboratory



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

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/195-13/10/2017

DATE OF REPORT :31-01-2018

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,

28-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

27-01-2018

Analysis Start Date

30-01-2018

Analysis End Date

31-01-2018

Duration Of Sampling

27-01-2018

195-13/10

Sampling Done By

Sample ID No

Sampling Location

ETS STAFF

Sampling Method

AMLABAD (AAQ-BZ1) ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

:16.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	68.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m³	39.7	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	hB/m ₃	7.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.62	For 8 Hrs.=02 / For 1 Hrs.=04	IS; 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	13.0	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m²	28.1	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C8H8)	µg/m³	0,69	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m³	N.D.	For Annual=06	IS: 5182 (Part-22)
-	The state of the s		11/2/2017		1 (A. A. C.

****End of Test Report****

CH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY Dy. Quality manager

Format no ETS /LAB/TR-01 Issue No 04 dt 01/08/2016 Rev No 03 dt 01/06/2016

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email: etslab2012@gmail.com | Website; www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO: ETS/46/195-16/10/2017

DATE OF REPORT :31-01-2018

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, INIDA

Date of Sampling

27-01-2018

Analysis Start Date

30-01-2018

Analysis End Date

31-01-2018

Duration Of Sampling

27-01-2018

28-01-2018

24.0 HOURS

Sample ID No

195-16/10

Sampling Done By

ETS STAFF

Sampling Location

JORADIH (AAQ-8Z4)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr. CLEAR (From Ground)

Ambient Temperature

16.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	67.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	hð/m ₃	36.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	h8/m _g	6.1	For 24 Hrs.=80	(S: 5162 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.37	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	ha/w _q	12.8	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	h8/m _a	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	18.2	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m ^a	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	0.68	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m³	N.D.	For Annual=06	IS: 5182 (Part-22)

""End of Test Report""

CH SERVICES

Formel no ETS /LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2018

AUTHORIZED SIGNATORYAL Dy. Quality manager

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.

The samples received shall be destroyed after one month from the date of test report issued.

The results indicated only refer to the tested samples and listed applicable parameters.

4. Our liability is limited to invoice value only.

Page 1 of 1

For Enviro-Tech Services



An Environmental Analytical Laboratory

Acc. No.-M31112041N

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24.0 HOURS

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/195-15/10/2017

DATE OF REPORT :31-01-2018

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.

28-01-2018

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 27-01-2018

Analysis Start Date

: 30-01-2018

Analysis End Date

: 31-01-2018

Duration Of Sampling

27-01-2018

Sample ID No

: 195-15/10

Sampling Done By

ETS STAFF

Sampling Location

JHARIA (AAQ-BZ3)

Sampling Method Sampling Machine Placed At Height ETS/STP/AIR-01 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

:16.0 10

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
t.	Particulate Matter (PM10)	µg/m³	69.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m³	33.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m²	7.6	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.42	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5,	Nitrogen Dloxide (NO2)	µg/m²	17.3	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	ha/w ₂	19.4	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m³	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	0.69	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

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

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2. The sumples received shall be destroyed after one month from the date of test report issued.

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RO-TECH SERVICES



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Acc. No.-M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/100-08/12/2017

DATE OF REPORT: 19-12-2017

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,

12-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 11-12-2017

Analysis Start Date

14-12-2017

Analysis End Date

: 15-12-2017

Duration Of Sampling

11-12-2017

Sample ID No

100-08/12

Sampling Done By

ETS STAFF

Sampling Location

JORADIH (AAQ-8Z4)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

- 20.0

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per GPGB)	Test Method
1,	Pariousle Matter (PM10)	pg/m²	65.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m"	27.3	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	6.0	For 24 Hrs.=60	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (ND2)	µg/m³	11.3	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

SERVICES

ormat no ETS /LAB/TR-01 | Issue No D4 dt 01/05/2016 | Rev No 03 at 01/05/2016

Md. Hummi

For Enviro-Tech

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3. The results indicated only refer to the tested samples and listed applicable parameters.



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email ; etslab2012@gmail.com | Website ; www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/100-09/12/2017

DATE OF REPORT :19-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

1 TASRA COAL MINING PROJECT

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

15-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 14-12-2017

Analysis Start Date

17-12-2017

Analysis End Date

18-12-2017

Duration Of Sampling

14-12-2017 To

: 100-09/12

Sampling Done By

Sample ID No

Compliant services

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

18.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	76.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	pg/m²	49.8	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m²	9.9	For 24 Hrs.=60	IS: 5182 (Part-2)
4.	Ntrogen Dioxide (NO2)	µg/m²	18.3	For 24 Hrs.=80	IS: 5182 (Part-6)
	Commission of the Commission o	The second second second		TO THE RESERVE OF THE PARTY OF	

****End of Test Report****

Page 1 of 1

FOR ENVIRONTECH SERVICES

For Enviro-Tech Services

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AUTHORIZED SIGNATORY

Md. Humraj

Note:- No 03 et 01/05/2016 Rev No 03 et 01/05/2016

1. This test report shall fire be used in any advertising media or as evidence in the court of Law without prior written permission of the washing ger

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ISO SECULARION OF BAS 18004 Acc. No.- M11112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/100-06/12/2017

DATE OF REPORT: 19-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA GOAL MINING PROJECT

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

12-12-2017

DHANSAD, JHARKHAND, INIDA

Date of Sampling

1 11-12-2017

Analysis Start Date

: 14-12-2017

Analysis End Date

15-12-2017

Duration Of Sampling

11-12-2017

Sample ID No

Sampling Done By

100-06/12

ETS STAFF

Gampling Location

BAGHMARA (AAQ-822)

Sampling Method

Sampling Machine Placed At Height

ETS/STP/AIR-01

Weather Condition

: 3.5 mtr.

(From Ground)

200	A CONTROL OF THE PARTY OF THE P	· WILLIAM		Ambient Temperature	:20.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.0	Particulate Matter (PM10)	h8/m,	65.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	36.0	For 24 Hrs.=80	Gravimetric Method
3.	Sulphur Dicode (502)	µg/m²	7.2	For 24 Hrs.=80	IB: \$182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m²	12.4	For 24 Hrs.=80	IS: 5182 (Part-6)

'End of Test Report"

Page 1 of 1

THE TO ETS ILABITH-01 Issue No 04 et 01/08/2016 Rev No 03 et 01/08/2016

Md. Humrai

For Enviro-Tech Services

1. This test report shall me Dig door in any advertising media or as evidence in the court of Law wishout prior written permission of the aboutistry

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.

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

TEST REPORT

TEST REPORT NO: ETS/100-11/12/2017

DATE OF REPORT :19-12-2017

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,

15-12-2017

24.0 HOURS

DHANBAD, JHARKHAND, INIDA

Date of Sampling

14-12-2017

Analysis Start Date

17-12-2017

Analysis End Date

18-12-2017

Duration Of Sampling

14-12-2017

100-11/12

Sampling Done By

Sample ID No

ETS STAFF

Sampling Location

KANDRA (AAQ-CZ3)

Sampling Method

: ETS/STP/A/R-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

: 18:0

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m"	70.8	For 24 Hrs. =100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ³	41.1	For 24 Hrs.=50	Gravimetric Method
3.	Bulphur Dioxide (BO2)	µg/m³	9.9	For 24 Hrs.=80	IB: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	pg/m²	20.5	For 24 Hrs.=80	IS: 5182 (Part-8)

****End of Test Report****

Page 1 of 1

LAST Surias no ETS /LAB/TR-01 Issue No 04 et 01/06/2016 Rev No 03 et 01/06/2016

For Enviro-Tech Services

AUTHORIZED SIGNATORY Md Humrai

Note:

and in any advertising media or as evidence in the court of Law without prior written permission of the laboratory 1. This test report shull met. 2. The samples received shall be destroyed after one month from the date of test report issued.

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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/100-04/12/2017

DATE OF REPORT : 19-12-2017

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,

12-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 11-12-2017

Analysis Start Date

14-12-2017

Analysis End Date

15-12-2017

Duration Of Sampling

11-12-2017 To

24.0 HOURS

Sample ID No

100-04/12

Sampling Done By

ETS STAFF

Sampling Location

: CHASNALA (AAQ-CZ4)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

20.0 °C

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	ug/m²	70.1	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	43.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (BO2)	pg/m²	8.0	For 24 Hrs.+80	16: 5162 (Part-2)
4.	Nitrogen Diaxide (NO2)	hā/m,	18.2	For 24 Hrs.=80	IS: 5182 (Part-5)

""End of Test Report"

OR ENVIRONTECH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY Md. Humraj

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Note:-





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TEST REPORT

TEST REPORT NO : ETS/100-13/12/2017

DATE OF REPORT : 19-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

M/5, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

15-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

14-12-2017

Analysis Start Date

17-12-2017

Analysis End Date

18-12-2017

Duration Of Sampling

14-12-2017

24.0 HOURS

Sample ID No

100-13/12

Sampling Done By

ETS STAFF

Sampling Location

AMLABAD (AAQ-821)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

1 3.5 mir.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

180 0

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	pg/m"	66.8	For 24 Hrs.=100	(S: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m"	38.7	For 24 Hrs.=80	Gravimetric Method
3.	Bulphur Dioxide (BO2)	µg/m"	7.3	For 24 Hrs. #80	IS: 5152 (Pert-2)
4.	Mitrogen Dioxide (NO2)	µg/m²	10.0	For 24 Hrs. #80	19: 5182 (Part-5)

""End of Test Report""

Page 1 of 1

SERVICES

AUTHORIZED SIGNATORY

For Enviro-Tech Services

Md. Humrai

Format no ETS /LAB/TR-01 Issue No 04 et 01/05/2016 Rev No 03 et 01/06/2016 Notes-I. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission it and platfortistory. Or

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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/100-02/12/2017

DATE OF REPORT :19-12-2017

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.

12-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

11-12-2017

Analysis Start Date

14-12-2017

Analysis End Date

15-12-2017

Duration Of Sampling

Sample ID No

11-12-2017

Sampling Done By

100-02/12

ETS STAFF

Sampling Location

TASRA (AAQ-CZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

				minimum remperatore	. 20.0
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1. 2	Particulate Matter (PM10)	µg/m²	75.7	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	43.9	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m"	11.4	For 24 Hrs.=60	18: 5182 (Part-Z)
4.	Nitrogen Diaxide (NO2)	na _{lun} ,	20.4	For 24 Hrs.=80	IS: 5182 (Part-6)

End of Test Report*

Page 1 of 1

AUTHORIZED SIGNATORY

Notes-

Format no ETS A.AB/TR-01 Issue No 04 dt 01/05/2015 Rev No 03 dt 01/05/2015

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Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.esia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/100-15/12/2017

DATE OF REPORT : 19-12-2017

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.

15-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 14-12-2017

Analysis Start Date

: 17-12-2017

Analysis End Date

18-12-2017

Duration Of Sampling

14-12-2017

Sample ID No

Sampling Done By

100-15/12 : ETS STAFF

Sampling Location

JHARIA (AAQ-BZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	67.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2 5)	µg/m²	324	For 24 Hrs.=80	Gravimetric Method
3.	Sulphur Diexide (SO2)	ид/т'	7.4	For 24 Hrs.=80	18: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m³	14.9	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report*

Page 1 of 1

For Enviro-Tech Services

Note:- TS-LBY format no ETS /LAB/TR-01 Issue No 04 at 01/06/2018 Rev No 03 at 01/06/2018 Dy. Quality manager

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/100-16/12/2017

DATE OF REPORT : 19-12-2017

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.

15-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 14-12-2017

Analysis Start Date

17-12-2017

Analysis End Date

18-12-2017

Duration Of Sampling

Sample ID No

14-12-2017

100-16/12

Sampling Done By

ETS STAFF

Sampling Location

: JORADIH (AAQ-BZ4)

Sampling Method

ETS/STP/AIR-DI

Sampling Machine Placed At Height

: 3.5 mt/.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1. 0	Particulate Matter (PM10)	µg/m²	65.8	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	hb/m,	27.0	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Dioxide (GD2)	µg/m²	5.9	For 24 Hrs.#80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m²	11.2	For 24 H/s.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

RVICES

at no ETS ALAB/TR-01 Issue No 04 at 01/00/2016 Rev No 03 at 01/06/2015

Note:-

and in any advertising media or as evidence in the court of Law without prior written permission of the laboratory. 1. This test report shall a

2. The samples received shall be destroyed after one month from the date of test report issued. A. The results indicated only refer to the tested samples and listed applicable parameters.

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

TEST REPORT

TEST REPORT NO : ETS/100-01/12/2017

DATE OF REPORT :19-12-2017

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,

12-12-2017

24.0 HOURS

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 11-12-2017

Analysis Start Date

14-12-2017

Analysis End Date

15-12-2017

Duration Of Sampling Sample ID No

11-12-2017 To

Sampling Done By

100-01/12

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mir.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

20.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	77.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	50.1	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m²	10.0	For 24 hirs.=80	(S: 5182 (Part-2)
4	Nitrogen Dioxide (NO2)	µg/m³	18.5	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

R no ETS /LAB/TR-01 Issue No 04 dt 01/06/2016 Rnv No 00 dt 01/06/2016

For Enviro-Tech Services

AUTHORIZED SIGNATORY Md. Humraj

Note:-1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permassion.

2. The appeals a couled shall be decreased as a contract of the court of the cou

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.

CHECKE





Acc. No.- M31112041N

Environmental Monitoring, Testing and Services

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

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24 0 HOURS

TEST REPORT

TEST REPORT NO: ETS/100-14/12/2017

DATE OF REPORT :19-12-2017

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.

15-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

14-12-2017

Analysis Start Date

: 17-12-2017

Analysis End Date

18-12-2017

Duration Of Sampling

14-12-2017

Sample ID No

100-14/12

Sampling Done By

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

18.0 10

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	64.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ^a	35.8	For 24 Hrs.=60	Gravimetric Method
3.	Gulphur Diexide (802)	µg/m ²	7.1	For 24 Hrs.=80	18: 5162 (Pert-2)
4.	Nitrogen Diaxide (NO2)	µg/m³	123	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report***

VICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Md. Humrai

mat no ETS /LAB/TR-01 | 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 us evidence in the court of Law without prior written permittion while individual control of 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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An Environmental Analytical Laboratory



Acc. No - M01112041N

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

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

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/100-03/12/2017

DATE OF REPORT :19-12-2017

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,

12-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

11-12-2017

Analysis Start Date

14-12-2017

Analysis End Date

15-12-2017

Duration Of Sampling

Sample ID No

: 11-12-2017

: 100-03/12

Sampling Done By

ETS STAFF

Sampling Location

KANDRA (AAQ-CZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

2 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

20.0

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	71.5	For 24 Hrs.=100	IS. 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	41.5	For 24 Hrs. #80	Gravimetric Method
3,	Sulphur Dioxide (GO2)	µg/m ^a	10.0	For 24 Hrs.=80	18: 5182 (Part-2)
4	Nitrogen Dioxide (NO2)	hB/w _a	20.7	For 24 Hrs. ×80	IS: 5182 (Pan-6)

""End of Test Report"

Page 1 of 1

10 ETS /LAB/TR-01 | Issue No D4 dt 01/06/2016 | Rev No 03 dt 01/06/2016

For Enviro-Tech Services

Note:-Estreed lighting advertising media or as evidence in the court of Law without prior written permission of the fallocatory. 1. This test report shall it

The samples received shall be destroyed after one month from the date of test report issued.

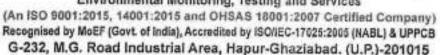
3. The results indicated only refer to the tested samples and listed applicable parameters. 4. Our liability is limited to invoice value only.

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Acc. No.-M31912041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/100-12/12/2017

DATE OF REPORT :19-12-2017

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, INIDA

Date of Sampling

: 14-12-2017

Analysis Start Date

17-12-2017

Analysis End Date

18-12-2017

Duration Of Sampling

14-12-2017

15-12-2017

24.0 HOURS

Sample ID No

100-12/12

Sampling Done By Sampling Location

ETS STAFF

CHASNALA (AAQ-CZ4)

Sampling Method Sampling Machine Placed At Height

ETS/STP/A/R-01

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

S, No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	µg/m²	69.4	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	hð/w.,	43.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	9,7	For 24 Hrs.=00	15: 5182 (Part-2)
4.	Nitrogen Diaxide (NO2)	µg/m²	18.0	For 24 Hrs.=80	IS: 5182 (Part-6)

""End of Test Report"

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Md. Humraj

Traffic no ETS /LAB/TR-01 | Issue No 04 et 01/05/2015 Rev No 03 et 01/00/2016

1. This test report shallengt he used in any advertising media or as evidence in the court of Law without prior written permanent like the report shall be used in any advertising media or as evidence in the court of Law without prior written permanent like the report shall be used in any advertising media or as evidence in the court of Law without prior written permanent like the report shall be used in any advertising media or as evidence in the court of Law without prior written permanent like the report shall be used in any advertising media or as evidence in the court of Law without prior written permanent like the report shall be used in the court of Law without prior written permanent like the report shall be used in the court of Law without prior written permanent like the report shall be used in the court of Law without prior written permanent like the report shall be used in the court of Law without prior written permanent like the report shall be used in the court of Law without prior written permanent like the report like the r 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.





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ISO SCOTHAGGLIDHSAS TAKET Acc. No.- M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/100-05/12/2017

DATE OF REPORT :19-12-2017

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.

12-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 11-12-2017

Analysis Start Date

14-12-2017

Analysis End Date

15-12-2017

Duration Of Sampling

Sample ID No

: 11-12-2017

100-05/12

Sampling Done By

Sampling Location

ETS STAFF

AMLABAD (AAQ-BZ1)

Sampling Method

ETS/STP/A/R-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

- 20 D 10

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ^d	67.5	For 24 Hrs.=100	IS: 5162 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m"	39.2	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Diexede (GO2)	µg/m²	7.4	Frir 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m²	10.1	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report***

Page 1 of 1

ormat no ETS (LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/05/2016

Md. Humrei

For Enviro-Tech

Note:-I. 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 or or

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.





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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ET\$/100-10/12/2017

DATE OF REPORT :19-12-2017

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.

15-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 14-12-2017

Analysis Start Date

17-12-2017

Analysis End Date

: 18-12-2017

Duration Of Sampling

: 14-12-2017

Sample ID No

100-10/12

Sampling Done By

ETS STAFF

Sampling Location

TASRA (AAQ-CZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	hð/m,	75.0	For 24 Hrs.=100	IS: \$182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m³	43.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	11,3	For 24 Hrs.=60	IB: 5182 (Part-2)
4,	Ntrogen Dioxide (NO2)	hā _i m,	20.3	For 24 Hrs.=80	IS: 5182 (Part-6)

End of Test Report***

RVICES

Page 1 of 1

For Enviro-Teph Services

AUTHORIZED SIGNATORY

Md. Humrai

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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 phoragon of the phor

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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24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/100-07/12/2017

DATE OF REPORT :19-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO-GHASNALA,

12-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

11-12-2017

Analysis Start Date

14-12-2017

Analysis End Date

: 15-12-2017

Duration Of Sampling

: 11-12-2017

Sample ID No

Sampling Done By

: 100-07/12

ETS STAFF

Sampling Location

JHARIA (AAQ-BZ3)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

1 20 0 10

3. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	68.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	pg/m²	32.7	For 24 Hrs.=50	Gravimetric Method
3.	Bulphur Dioxide (BO2)	µg/m²	7.5	For 24 Hrs.=80	IB: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m²	15.0	For 24 Hrs.=80	I6: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

RVICES

Commat no ETS ILAB/TR-01 Issue No 04 at 01/06/2016 Rev No 03 at 01/06/2016

For Enviro-Tech Services

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The samples received shall be destroyed after one month from the date of test report issued.

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TEST REPORT

TEST REPORT NO : ETS/90-12/12/2017

DATE OF REPORT :12-12-2017

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,

08-12-2017

24.0 HOURS

DHANBAD, JIHARKHAND, INIDA

Date of Sampling

07-12-2017

Analysis Start Date

10-12-2017

Analysis End Date

: 11-12-2017

Duration Of Sampling

: 07-12-2017

Sample ID No Sampling Done By

90-12/12

ETS STAFF

Sampling Location

: CHASNALA (AAQ-CZ4)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr

(From Ground)

	ar Condition	: CLEAR		Ambient Temperature	15.0 °C
5. No.	Test Parameters	Unit	Result	Specification/Limit	
1.	Particulate Matter (PM10)	µg/m²		(as Per CPCB)	Test Method
	Parsoulate Matter (PM2.5)		67.0	For 24 Hrs.=100	IS: 5162 (Part-23)
	Sulphur Diaxide (802)	hā,uu,	42.1	For 24 Hrs.=60	Gravimetric Method
The second secon	Nitrogen Diaxide (NO2)	hā/m,	9.5	For 24 Hrs.=80	18: 5182 (Part-2)
	- ar a manage (rac)2)	12 hd/m, 12	17.7	For 24 Hrs.=50	IS: 5182 (Part-6)

....End of Test Report****

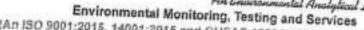
Page 1 of 1

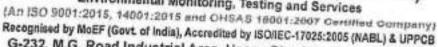
AUTHORIZED SIGNATORY formating ETS/LAB/TR-01 Issue No 04 at 01/06/2016 Rev No 03 at 01/06/2016 later-. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the inheratory.

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Ph.: 9811736063, 9911516076 TEST REPORT

TEST REPORT NO : ETS/90-09/12/2017

DATE OF REPORT :12-12-2017

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,

08-12-2017

24.0 HOURS

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 07-12-2017

Analysis Start Date

1 10-12-2017

Analysis End Date

: 11-12-2017

Duration Of Sampling

: 07-12-2017

Sample ID No.

90-09/12

Sampling Done By

Sampling Location

: ETS STAFF

: ROHRABANDH (AAQ-CZ1)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

1 3.5 mir

(From Ground)

Weather Condition

	- Condition	: CLEAR		Ambient Temperature	; 18.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	74.8	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	48.8	For 24 Hrs. =80	Gravimatric Method
3.	Bulphur Diexide (SO2)	pg/m²	9.7	For 24 Hrs. +60	
4.	Nitrogen Dicxide (NO2)		2005	A A A A A A A A A A A A A A A A A A A	IS: 5182 (Pert-2)
110	(1402)	hāuz.	18.0	For 24 Hrs.=80	15; 5182 (Pan-6)

****End of Test Report***

CH SERVICES

Page 1 of 1

For Enviro-Tech Services

Format no ETG /LAB/TR-01 Issue No 04 of 01/06/2019 Rev No 03 of 01/06/2016

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-10/12/2017

DATE OF REPORT : 12-12-2017

Name And Address of Customer

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT : TASRA COAL MINING PROJECT

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

08-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 07-12-2017

Analysis Start Date

: 10-12-2017

Analysis End Data

11-12-2017

Duration Of Sampling

To

07-12-2017

Sample ID No

90-10/12

Sampling Done By Sampling Location

ETS STAFF

Sampling Method

TASRA (AAO-CZ2)

Sampling Machine Placed At Height

ETS/STP/A/R-01

Weather Condition

: 3.5 mtr.

(From Ground)

24.0 HOURS

s. No.	Test Perameters their o			Ambient Temperature	: 16.0 °C
1.	Particulate Matter (PM10)	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
2	Paraculate Matter (PM2.5)	µg/m²	73.5	For 24 Hrs.=100	
	Bulphur Dioxide (802)	hā/m,	42.6	For 24 Hrs.=80	18: 5182 (Part-23)
4. Nitrogen Dioxide (NO2)	hā/m²	11.0	For 24 Hra.=00	Gravimetric Metho: (8: 5182 (Part-2)	
		h8/m,	19.8	For 24 Hrs.=80	IS: 5182 (Part-6)

....End of Yest Report****

Page 1 of 1

H.SERVICES

For Enviro-Tach Services

AUTHORIZED SIGNATORY

Md. Humraj

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The results indicated only refer to the texted samples and listed applicable parameters. Our liability is limited to invoice value only.





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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-11/12/2017

DATE OF REPORT : 12-12-2017

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, INIDA

Date of Sampling

: 07-12-2017

Analysis Start Date

: 10-12-2017

Analysis End Date

1 11-12-2017

Duration Of Sampling

£ 07-12-2017

08-12-2017

24.0 HOURS

Sample ID No

: 90-11/12

Sampling Done By

: ETS STAFF

Sampling Location

: KANDRA (AAQ-CZ3)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr.

(From Ground)

e-e-e-triple	or Condition	: CLEAR		Ambient Temperature	: 18.0 °C
3. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	Hg/m ²	69.3	For 24 Hrs.=100	
2.	Particulate Matter (PM2.5)		7.7.5		18: 5162 (Part-23)
-		pg/m²	40.2	For 24 Hrs. =50	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m²	9.7	E	
4.	Nitrogen Dioxide (ND2)		4.7	For 24 Hrs.~60	i8: 5102 (Part-2)
-		ha/m,	20.1	For 24 Hrs.=80	IS: 5182 (Part-6)

""End of Test Report""

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

total . 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. . The samples received shall be destroyed after one month from the date of sest report issued.

. The results indicated only refer to the tested samples and listed applicable parameters.

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Acc. No.-M31112041N

TEST REPORT

TEST REPORT NO : ETS/90-04/12/2017

DATE OF REPORT :12-12-2017

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, INIOA

Date of Sampling

04-12-2017

Analysis Start Date

07-12-2017

Analysis End Date

08-12-2017

Duration Of Sampling

04-12-2017

05-12-2017

24.0 HOURS

Sample ID No

90-04/12

Sampling Done By Sampling Location

ETS STAFF

CHASNALA (AAQ-CZ4)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

S. No.	# 100 may 100		1	Ambient remperature	20.0 °C	
111	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method	
1.	Particulate Matter (PM10)	µg/m²	68.6	For 24 Hrs.=100	Market State of the State of th	
2 -	Particulate Matter (PM2.5)	Control of	1000		18: 5182 (Part-23)	
market and a second		µg/m"	42.5	For 24 Hrs.=80	Gravimetric Method	
	Sulphur Dioxide (8O2)	halu.	9.6	For 24 Hrs.=60		
Nitrogen Dioxide (NO2)	µg/m³	-		IB. 5182 (Part-2)		
		pgem	17.8	For 24 Hrs.=80	IS: 5182 (Part-8)	

****End of Test Report****

Page 1 of 1

Sematino ETS /LAB/TR-01 | Issue No 04 at 01/08/2018 | Rev No 03 at 01/08/2016

AUTHORIZED SIGNATORY Md. Humsil

For Enviro-Teal) Services

This test report shall not be used in any advertising media or as evidence in the court of Law without prior written periodological independent of the court of the without prior written periodological independent of the court . The samples received shall be destroyed after one mouth from the date of test report issued.

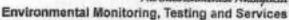
. The results indicated only refer to the tested samples and listed applicable parameters.

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

email: etslab2012@gmail.com | Website: www.etslab.asia Ph.: 9811738083, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/90-05/12/2017

DATE OF REPORT :12-12-2017

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,

05-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

04-12-2017

Analysis Start Date

07-12-2017

Analysis End Date

08-12-2017

Duration Of Sampling

04-12-2017

Sample ID No Sampling Done By

90-05/12

Sampling Location

ETS STAFF

Sampling Method

AMLABAD (AAQ-BZ1) ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m"	66.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Metter (PM2.5)	µg/m"	38.3	For 24 Hrs.=80	Gravimetric Method
3.	Bulphur Dioxide (8O2)	hBim _a	7.3	For 24 Hrs. =80	i0: 5162 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	9.9	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report****

Page 1 of 1

ERVICES

Note:

no ETS /LAR/TR-01 | lasue No 04 at 01/05/2016 | Rev No 03 at 01/05/2016

Md Hamps

AUTHORIZED SIGNATORY

self in any advertising media or as evidence in the court of Law without prior written permission of the leberatory. L. This test report shall is

2. The samples received shall be destroyed after one mouth from the date of test report issued. I. The results indicated only refer to the tested samples and listed applicable parameters.





Environmental Monitoring, Testing and Services

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

TEST REPORT

TEST REPORT NO : ETS/90-02/12/2017

DATE OF REPORT :12-12-2017

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, INIDA

Date of Sampling

04-12-2017

Analysis Start Date

07-12-2017

Analysis End Date

08-12-2017

Duration Of Sampling

04-12-2017

05-12-2017

24.0 HOURS

Sample ID No Sampling Done By 90-02/12

ETS STAFF

Sampling Location

TABRA (AAQ-CZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

S. No.		Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Malter (PM10)	µg/m²	74.2	For 24 Hrs. #100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	Hg/m²	43.0	For 24 Hrs. =60	
3.	Sulphur Dioxide (602)	µg/m"	11.1	For 24 Hrs. 480	Gravimetric Method
4.	Nitrogen Dioxide (NO2)	µg/m²	200		19: 5182 (Part-2)
- 11	and an annual process	pgm	20.0	For 24 Hrs.=60	(S: 5182 (Part-6)

""End of Test Report

SERVICES

Page 1 of 1

For Enviro-TechnServices

AUTHORIZED SIGNATORY Md. Humraj

ormat no ETS/LAB/TR-01 | Issue No 04 dt 01/06/2018 | Rev No 03 dt 01/06/2016

I. This test report shall not be used in any edvertising coedia or as evidence in the court of Law without prior written permitted the prior written permitted the prior written permitted the permitted that the court of Law without prior written permitted the permitted that the court of Law without prior written permitted the permitted that the court of Law without prior written permitted the permitted that the court of Law without prior written permitted the permitted that the court of Law without prior written permitted the permitted that the permitted that the court of Law without prior written permitted the permitted that the per 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.



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Acc. No. M3111204TM

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

TEST REPORT

TEST REPORT NO : ETS/90-03/12/2017

DATE OF REPORT :12-12-2017

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.

05-12-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

04-12-2017

Analysis Start Date

07-12-2017

Analysis End Date

08-12-2017

Duration Of Sampling

04-12-2017

Sample ID No

90-03/12

Sampling Done By

ETS STAFF

Sampling Location

KANDRA (AAQ-CZ3)

Bampling Method

ETS/STP/AIR-01

Sampling Muchina Placed At Height

: 3.5 entr.

(From Ground)

Weather Condition

1 CLEAR

24.0 HOURS

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	70.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Parsculate Matter (PM2.5)	pg/m²	40.6	For 24 Hrs =60	Gravimetric Method
3,	Bulphur Dicxede (8O2)	µg/m"	9.5	For 24 Hrs.=80	IS: 5182 (Pnrt-2)
4.	Nitrogen Dioxide (NO2)	hō/m,	20.3	For 24 Hrs.=60	IS: 5182 (Part-6)

"End of Test Report"

Page 1 of 1

grist 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-Te

OferThis test report shall dorse used in any advertising media or as cyldrore in the court of Law without prior written permission of this lay restore. The samples received shall be destroyed after one month from the date of test report issued, The results indicated only refer to the tested samples and listed applicable parameters.

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Environmental Monitoring, Testing and Services



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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/80-16/12/2017

DATE OF REPORT :12-12-2017

Name And Address of Customer

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT : TASRA COAL MINING PROJECT

WS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA.

DHANEAD, JHARKHAND, INIDA

Date of Sampling

: 07-12-2017

Analysis Start Date

10-12-2017

Analysis End Date

: 11-12-2017

Duration Of Sampling

: 07-12-2017

08-12-2017

24.0 HOURS

Sample ID No

Sampling Done By

: 90-16/12

: ETS STAFF

Sampling Location

Sampling Method

I JORADIH (AAQ-BZ4) : ETS/STP/AIR-01

Bampling Machine Plezed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

S. No.	Test Parameters	35,500	1	Ambient Temperature	18.0 °C
		Unit	Result	Specification/Limit	
1.	Particulate Matter (PM10)	10000	_	(as Per CPCB)	Test Method
	Particulate Matter (PM2.5)	naw.	64.3	For 24 Hrs.=100	18: 5182 (Part-23)
		highus,	25.4	For 24 Hrs.=60	
	Bulphur Dioxide (GO2)	hō/m²	5.8	For 24 Hrs.=80	Gravimetric Method
Nitrogen Dioxide (NO2)	µg/m²	10,9		IG: 5182 (Part-2)	
4		1	(4/3	For 24 Hrs.=80	18: 5182 (Part-8)

****End of Test Report****

Page 1 of 1

SERVICES

For Enviro-Tebh Services

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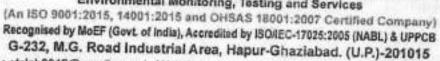
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ide:-This test report shall not be used in any advertising media or as evidence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of Law without prior written paryhistence in the court of the c The samples received shall be destroyed after one month from the date of test report issued.

The results indicated only refer to the fested samples and listed applicable parameters. Our flability is limited to invoice value only.



Environmental Monitoring, Testing and Services



IEO 9001/14/09/JOHSAS 16001

Acc. No.- 831112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

I Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-01/12/2017

DATE OF REPORT 12-12-2017

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, INIDA

Date of Sampling

04-12-2017

Analysis Start Date

07-12-2017

Analysis End Date

08-12-2017

Duration Of Sampling

: 04-12-2017

05-12-2017

24.0 HOURS

Sample ID No

: 90-01/12

Sampling Done By

I ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Pront II	Contation	: CLEAR		Ambient Temperature	:20.0 °C
5. No.	Test Parameters	Unit	Result	Specification/Limit (#8 Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ²	75.5	For 24 Hrs.=100	15: 5182 (Part-23)
2.	Persoulate Matter (PM2.5)	ug/m ³	49.1		The state of the s
3.	Market Committee		49.1	For 24 Hrs. = 60	Gravimetric Method
272	Sulphur Dioxide (SO2)	naw,	9.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Nitrogen Diaxide (NO2)	pg/m²	18.1	For 34 May - 84	The second secon
Carried Street		1 mgm	10.1	For 24 Hrs.=60	IS: 5182 (Part-71)

""End of Test Report""

FOR ENTRO TECH CHECKE

Page 1 of 1

For Enviro-Tech Services

LAB dignet no ETS AAB/TR-01 Issue No 64 dt 01/06/2016 Rev No 03 dt 01/06/2018

AUTHORIZED SIGNATORY Dy. Quality manu.

his test report small not be used to any advertising media or as evidence in the court of Law without prior written permission of the inhoratory. he samples received shall be destroyed after one month from the date of test report issued. he results indicated only refer to the tested samples and fisted applicable parameters. ur liability is limited to invoice value only.







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Ph.: 9811738063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-14/12/2017

DATE OF REPORT: 12-12-2017

Name And Address of Customer

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT : TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 07-12-2017

Analysis Start Date

10-12-2017

Analysis End Date

: 11-12-2017

Duration Of Sampling

07-12-2017

08-12-2017

24.0 HOURS

Sample ID No

2 90-14/12

Sampling Done By

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZZ)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mgr.

(From Ground)

Weather Condition

s. No.	Test Parameters		1	Ambient Temperature	118.0 °C
W.	111111111111111111111111111111111111111	Unit	Result	Specification/Limit	Total Section 1
1.	Particulate Matter (PM10)	contain?		(as Per CPCB)	Test Method
	Particulate Matter (PM2.5)	µg/m"	63.2	For 24 Hrs,=100	IS: 5182 (Part-23)
	Sulphur Diaxide (6O2)	µg/m ³	34.8	For 24 Hrs. +60	Gravimetric Method
		h@im,	7,0	For 24 Hra.=80	
- reuc	Nitrogen Dioxide (NO2)	µg/m"	12.0	For 24 Hrs. #80	i8: 5182 (Part-2)
				1 0 24 195.000	16: 5162 (Part-6)

""End of Test Report"

Page 1 of 1

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For Enviro-Tec

Formal no ETS A_AB/TR-01 | Issue No 04 at 01/05/2016 | Rev No 03 at 01/06/2016

Md. Humraj

Note:

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written primary of the laboratory. 1. The samples received shall be destroyed after one month from the date of test report issues.

I. The results indicated only refer to the tested samples and listed applicable parameters.

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Environmental Monitoring, Testing and Services





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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-15/12/2017

DATE OF REPORT :12-12-2017

Name And Address of Customer

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT : TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 07-12-2017

Analysis Start Date

10-12-2017

Analysis End Date

Duration Of Sampling

11-12-2017

07-12-2017

08-12-2017

24.0 HOURS

Sample ID No

90-15/12

Sampling Done By

ETS STAFF

Sampling Location

: JHARIA (AAQ-8Z3)

Sampling Method

ETS/STP/A/R-01

Sampling Machine Placed At Height

3.5 mir.

(From Ground)

Weather Condition

: CLEAR

		-	1	amoient Temperature	18.0 'C	
8. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method	
1.	Particulate Matter (PM10)	ug/m ³	68.0	For 24 Hrs.=100		
2	Particulate Matter (PM2.5)		3112		15: 5162 (Pari-23)	
-	Bulphur Dioxide (BO2)	ha,uu,	31.7	For 24 Hrs.=60	Gravimetric Method	
		µg/m/	7.3	For 24 Hrs.=80		
4.	Nitrogen Dioxide (NO2)	µg/m³			18: 5182 (Part-2)	
		high	14.5	For 24 Hrs. =80	IS: 5182 (Pan-6)	

****End of Test Report****

Page 1 of 1

SERVICES

AUTHORIZED SIGNATORY Md. Humral

For Enviro-Tech Services

als test report shall not be used in any advertising media or as evidence in the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written proposed by the court of Law without prior written by the court of Law without pri se samples received shall be destroyed after one month from the date of test report issued.

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An Environmental Analytical Laborators



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TEST REPORT

TEST REPORT NO: ETS/90-06/12/2017

DATE OF REPORT :12-12-2017

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, INIDA

Date of Sampling

04-12-2017

Analysis Start Date

07-12-2017

Analysis End Date

08-12-2017

Duration Of Sampling

04-12-2017

05-12-2017

24.0 HOURS

Sample ID No

90-08/12

Sampling Done By

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

				, 20.0 L
Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
	µg/m²	84.0	For 24 Hrs.=100	IS; 5182 (Part-23)
Particulate Matter (PM2.5)	ug/m ^a	35.2		Gravimetric Method
Bulphur Dioxide (SO2)	µg/m ³	7.0	For 24 Hrs. 480	18: 5182 (Part-2)
Nitrogen Dioxide (NO2)	hā/m,	122	For 24 Hrs.=80	IS: 5182 (Part-6)
	Particulate Matter (PM10) Particulate Matter (PM2.5) dulphur Dioxide (SO2)	Particulate Matter (PM10) µg/m² Particulate Matter (PM2.5) µg/m² dulphur Dioxide (SO2) µg/m²	Particulate Matter (PM10) μg/m² 84.0 Particulate Matter (PM2.5) μg/m² 35.2 Bullphur Dioxide (SO2) μg/m² 7.0	Particulate Matter (PM10) μg/m² 84.0 For 24 Hrs.=100 Particulate Matter (PM2.5) μg/m² 35.2 For 24 Hrs.=50 Bullphur Dioxide (SO2) μg/m² 7.0 For 24 Hrs.=80

""End of Test Report""

Page 1 of 1

ormatino ETS /LAB/TR-01 | Issue No 04 dt 01/06/2016 | Rev No 03 dt 01/06/2016

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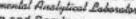
Md. Humrai

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For Enviro-Tech Services

. The samples received shall be destroyed after one mouth from the date of test report issued. The results indicated only refer to the tested samples and listed applicable parameters.







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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-13/12/2017

DATE OF REPORT :12-12-2017

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, INIDA

Date of Sampling

: 07-12-2017

Analysis Start Date

: 10-12-2017

Analysis End Date

11-12-2017

Duration Of Sampling

07-12-2017 To

08-12-2017

24.0 HOURS

Sample ID No.

90-13/12

Sampling Done By

: ETS STAFF

Sampling Location

AMLABAD (AAQ-BZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

		- Galletin	-	Ambient Temperature	: 16.0 °C
S. No.	Took Cardinaters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
L	Particulate Matter (PM10)	ug/m²	65.3	For 24 Hrs.=100	10. 6480 (Dec. 20)
2	Particulate Matter (PM2.5)	µg/m³	37.9	For 24 Hrs #60	IS: 5182 (Part-23)
3.	Sulphur Dioxida (602)				Gravimetric Method
_		hā/m,	7.2	For 24 Hrs.=80	IG: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m"	9.8	For 24 Hrs. #80	
			-10	7.4.4.7.000.000	IS: 5182 (Part-6)

""End of Test Report"

Page 1 of 1

ERVICES

mat no ETS /LAB/TR-01 Issue No 04 at 01/06/2016 Rev No 03 at 01/06/2016

For Enviro-Tech Services

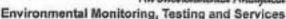
AUTHORIZED SIGNATORY Md. Humraj

This test export shall not be used in any advertising media or us evidence in the court of Law without prior written parameters of the managers of The samples received shall be destroyed after one rousth from the date of test report issued.

The results indicated only refer to the tested samples and listed applicable parameters.



An Cnoisonmental Analytical Laborators





(An ISO 9001:2015, 14001:2015 and OHSAS 18001:2007 Certified Company) Recognised by MoEF (Govt. of India), Accredited by ISO/IEC-17025:2005 (NABL) & UPPCB G-232, M.G. Road Industrial Area, Hapur-Ghaziabad. (U.P.)-201015

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO: ET5/90-08/12/2017

DATE OF REPORT :12-12-2017

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, INIDA

To

Date of Sampling

04-12-2017

Analysis Start Date

07-12-2017

Analysis End Date

08-12-2017

Duration Of Sampling

04-12-2017

05-12-2017

24.0 HOURS

Sample ID No Sampling Done By 90-08/12

Sampling Location

ETS STAFF JORADIH (AAQ-824)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

20.0

Weather Condition

: CLEAR

Ambient Temperature

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	µg/m²	65.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m ^d	26.7	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Dioxide (BO2)	ha/m,	5.9	For 24 Hrs.=80	18: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m³	11.1	For 24 Hrs.=80	IS: 5182 (Part-6)

"End of Test Report""

RVICES

Page 1 of 1

For Enviro-Tech Services

LAS Format no ETS ALAUTR-01 lesue No 64 et 01/05/2016 Rev No 03 et 01/05/2016

Note:- Dy. Quality manager

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.





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email: etslab2012@gmail.com | Website ; www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/90-07/12/2017

DATE OF REPORT :12-12-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

2 TASRA COAL MINING PROJECT

MIS. STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA.

05-12-2017

DHANBAD, JHARKHAND INIDA

Date of Sampling

04-12-2017

Analysis Start Date

07-12-2017

Analysis End Date

08-12-2017

Duration Of Sampling

04-12-2017

Sample ID No

Sampling Done By

90-07/12

Gampling Location

ETS STAFF JHARIA (AAQ-BZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per GPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	66,7	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	ha/w,	32.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Diaxide (602)	µg/m²	7.3	For 24 Hrs.=80	18: 5102 (Pert-Z)
4.	Nitrogen Dioxide (NO2)	hð _l u,	14.7	For 24 Hrs.=80	18; 5182 (Part-6)

""End of Test Report"

SERVICES

Page 1 of 1

For Enviro-Tenh Services

AUTHORIZED SIGNATORY

Md. Humrai

Formet no E75 /LAB/TR-01 Issue No 04 dt 01/05/2016 Rev No 03 dt 01/05/2018

I. This test report shall not be used in any advertising media or an evidence in the court of Law without prior writted per administrative in the many advertising media or an evidence in the court of Law without prior writted per administrative in the many advertising media or an evidence in the court of Law without prior writted per administrative in the many advertising media or an evidence in the court of Law without prior writted per administrative in the court of 2. The samples received shall be destroyed after one month from the date of test report issued.

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/74-45/11/2017

DATE OF REPORT :28-11-2017

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,

21-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

20-11-2017

Analysis Start Date

23-11-2017

Analysis End Date

20-11-2017

Duration Of Sampling

Sample ID No

20-11-2017

74-45/11

Sampling Done By

Sampling Location

ETS STAFF

AMLABAD (AAQ-BZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

-				removem remperature	72'0 .C
5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
and the same of	Particulate Matter (PM10)	µg/m"	69.0	For 24 Hrs. =100	IS: 5182 (Part-23)
CEL LA L	Particulate Matter (PM2.5)	pg/m²	40.0	For 24 Hrs. =60	Gravimetric Method
3.	Sulphur Dioxide (BO2)	µg/m ³	7,5	For 24 Hrs.#80	18: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m²	10.4	For 24 Hrs.=80	IS: 5182 (Part-6)

*End of Test Report***

PRVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIDNA TORY'S Dy. Quality manuser

Formal no ETS /LAB/TR-01 Issue No 04 at 01/05/2016 Ray No 03 at 01/05/2016

1. This test report shall not be used in any advertising media or as evidence in the court of Low 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 ludicated only refer to the tested samples and listed applicable parameters.

4. Our flability is limited to invoice value only.

Nute:-



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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/30-13/11/2017

DATE OF REPORT :14-11-2017

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,

07-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 03-11-2017

Analysis Start Date

08-11-2017

Analysis End Date

09-11-2017

Duration Of Sampling

06-11-2017

Sample ID No

30-13/11

Sampling Done By

ETS STAFF

Sampling Location

AMLABAD (AAQ-BZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(Fram Ground)

Weather Condition

: CLEAR

Ambient Temperature :24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Mathod
1.	Particulate Matter (PM10)	μg/m²	67.5	For 24 Hrs =100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	pg/m"	39.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m³	7.4	For 24 Hrs.=80	(5: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	µg/m ³	10.1	For 24 Hrs.=80	IS: 5182 (Part-6)
			and the same of the		A STATE OF THE PARTY OF THE PAR

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATIONE Dy. Quality manager

Notes-

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

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/74-44/11/2017

DATE OF REPORT 28-11-2017

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,

21-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 20-11-2017

Analysis Start Date

23-11-2017

Analysis End Date

: 20-11-2017

Duration Of Sampling

20-11-2017

Sample ID No

74-44/11

Sampling Done By

ETS STAFF

Sampling Location

: CHASNALA (AAQ-CZ4)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr.

	SCHOOL STATE OF THE STATE OF TH	LULEAR		Ambient Temperature	25,0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	hā/m,	71.6	For 24 Hrs.=100	18: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	44.4	For 24 Hrs.+80	Gravimetric Method
3.	Bulphur Dioxide (SO2)	µg/m²	10.0	For 24 Hrs.=80	THE RESERVE OF THE PROPERTY OF
4.	Nitrogen Dioxide (NO2)		7,000		18: 51ê2 (Part-2)
200	remogen crosses (NO2)	ha/m,	18.6	For 24 Hrs. =90	18: 5182 (Part-6)

(From Ground)

*End of Test Report****

ERVICES CHECKEDIBY

Page 1 of 1

For Enviro-Tech Services

Format no ETS /LAB/TR-01 Issue No 04 dt 01/05/2016 Rev No 03 dt 01/05/2016 Notes-

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TEST REPORT

TEST REPORT NO: ETS/30-14/11/2017

DATE OF REPORT :14-11-2017

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,

07-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

06-11-2017

Analysis Start Date

08-11-2017

Analysis End Date

09-11-2017

Duration Of Sampling

05-11-2017

Sampling Done By

Sample ID No

30-14/11

Damelian Legation

: ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mir.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

24.0 HOURS

24.0 %

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m³	65.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	36.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	pg/m ^s	7.2	For 24 Hrs.=50	IS: 5182 (Part-2)
4.	Nitrogen Diaxide (NO2)	µg/m²	12.4	For 24 Hrs.=80	IS: 5182 (Part-6)

End of Test Report*

PRENVIRO-TECHISERVICES

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

Notes-

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

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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/74-43/11/2017

DATE OF REPORT :28-11-2017

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,

21-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

20-11-2017

Analysis Start Date

: 23-11-2017

Analysis End Date

20-11-2017

Duration Of Sampling

20-11-2017

Sample ID No

Sampling Done By

74-43/11

ETS STAFF

Sampling Location

Sampling Method

KANDRA (AAQ-CZ3)

Sampling Machine Placed At Height

ETS/STP/AIR-01 : 3.5 mtr. (From Ground)

Weather Condition

CLEAR

ricalists.		· OLEMA	,	Ambient Temporature	25.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1	Particulate Matter (PM10)	µg/m²	73.0	For 24 Hrs.=100	IS: 5102 (Part-23)
2.	Particulate Malter (PM2.5)	hð/m,	42.3	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Dioxide (SO2)	ug/m ³	10.2	For 24 Hrs.=80	
4.	Nitrogen Dioxide (NO2)	The second second			(8: 5182 (Part-2)
52	mingen crowde (NCZ)	hā/m²	21.2	For 24 Hrs.=80	IS: 5182 (Part-6)

""End of Test Report"

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

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

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Note:



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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/30-15/11/2017

DATE OF REPORT :14-11-2017

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,

07-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 06-11-2017

Analysis Start Date

08-11-2017

Analysis End Date

09-11-201F

Duration Of Sampling

06-11-2017

30-15/11

Sample ID No

Sampling Done By Sampling Location

ETS STAFF

Sampling Method

: JHARIA (AAQ-BZ3)

Sampling Machine Placed At Height

ETS/STP/AIR-01

Weather Condition

1 3.5 mir. : CLEAR (From Ground)

	Contract and		emperature.	29.0
Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
Particulate Matter (PM10)	µg/m²	68.2	For 24 Hrs.=100	15: 5182 (Part-23)
Particulate Matter (PM2.5)	µg/m*	32.7	For 24 Hrs.=60	Gravimetric Method
Bulphur Dioxide (SO2)	hā _j m,	7.5	For 24 Hra.=50	(5: 5182 (Part-2)
Nitrogen Dioxide (NO2)	µg/m³	15.0	For 24 Hrs.=80	IS: 5182 (Part-8)
	Particulate Matter (PM10) Particulate Matter (PM2.5) Bulphur Diexide (SO2)	Test Parameters Unit Particulate Matter (PM10) µg/m² Particulate Matter (PM2.5) µg/m² Bulphur Dioxide (SO2) µg/m²	Test Parameters Unit Result Particulate Matter (PM10)	Test Parameters Unit Result Specification/Limit (as Per CPCB) Particulate Matter (PM10) μg/m² 68.2 For 24 Hrs.=100 Particulate Matter (PM2.5) μg/m² 32.7 For 24 Hrs.=60 Bulphur Dioxide (SO2) μg/m² 7.5 For 24 Hrs.=60

****End of Test Report**

SERVICES

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

Note:-

Format no ETS (LAB/TR-01 Issue No 04 dt 01/05/2015 Rev No 03 dt 01/05/2015

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

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24 D HOURS

TEST REPORT

TEST REPORT NO: ETS/74-42/11/2017

DATE OF REPORT :28-11-2017

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, INIDA

Date of Sampling

Analysis Start Date

20-11-2017 23-11-2017

Analysis End Date

20-11-2017

Duration Of Sampling

20-11-2017

Sample ID No

74-42/11

Sampling Done By Sampling Location

ETS STAFF

: TASRA (AAQ-C22)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr.

(From Ground)

	- Containen	LULEAR		Ambient Temperature	25.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
-21	Particulate Matter (PM10)	µg/m²	77.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	44.8	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Dioxide (SQ2)	µg/m³	11.6	For 24 Hrs.+80	IS: 5182 (Part-2)
4,	Nitrogen Dioxide (NO2)	ug/m²	20.8	For 24 Hrs. =80	IS: 5182 (Part-6)

End of Test Report****

FOR ENVIR

Page 1 of 1

For Enviro-Tech Services

ormatine ETS (LAB/TR-01 | Issue No 04 at 01/06/2015 | Rev No 03 at 01/06/2016

AUTHORIZED SIGNATIONYA Dy. Quality manager

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Note:-



An Environmental Analytical Laboratory



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email: etalab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811735063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/30-16/11/2017

DATE OF REPORT :14-11-2017

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,

07-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 06-11-2017

Analysis Start Date

08-11-2017

Analysis End Date

09-11-2017

Duration Of Sampling

06-11-2017

Sample ID No

: 30-16/11

Sampling Done By

ETS STAFF

Sampling Location

JORADIH (AAQ-BZ4) ETS/STP/AIR-01

Sampling Method Sampling Machine Placed At Height

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	66.5	For 24 Hrs.=100	(8: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	27.3	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Dioxide (802)	µg/m²	6.0	For 24 Hrs.=80	18: 5182 (Part-Z)
4.	Nitrogen Dioxide (NO2)	µg/m²	11.3	For 24 Hrs.=80	IS: 5182 (Part-6)

****End of Test Report

SERVICES

Page 1 of 1

For Enviro-Tech Services

Dy. Quality mariager

Format no ETS ALAB/TR-01 Issue No 04 dt 01/06/2018 Rev No 03 dt 01/06/2016

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/74-41/11/2017

DATE OF REPORT :28-11-2017

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,

21-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

20-11-2017

Analysis Start Date

23-11-2017

Analysis End Date

Duration Of Sampling

20-11-2017

Sample ID No

20-11-2017

74-41/11

Sampling Done By

Sampling Location

ETS STAFF

Sampling Method

ROHRABANDH (AAQ-CZ1)

Sampling Machine Placed At Height

ETS/STP/AIR-01

Weather Condition

3.5 mtr. CLEAR

(From Ground) Ambient Tem

. No.		Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m"	78.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m ²	51.0	For 24 Hrs.≈60	Gravimetric Method
3.	Bulphur Dioxide (802)	µg/m²	10.2	For 24 Hrs.=50	13: 5182 (Part-2)
4.	Nitrogen Dioxide (NO2)	hō/m,	18.8	For 24 Hrs =80	IS: 5182 (Part-6)

""End of Test Report"

FOR ENV CHECKED B

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SUGNATIONY

Notes

Notes

L. 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 faboratory. Or

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.



An Environmental Analytical Laboratory



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Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/51-41/11/2017

DATE OF REPORT :21-11-2017

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, INIDA

Date of Sampling

13-11-2017

Analysis Start Date

16-11-2017

Analysis End Date

17-11-2017

Duration Of Sampling

: 13-11-2017

14-11-2017

24.0 HOURS

Sample ID No

51-41/14

Sampling Done By Sampling Location

ETB STAFF

: KANDRA (AAQ-CZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

2 3.5 mtr.

(From Ground)

: CLEAR

Ambient Terrescours

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1,	Particulate Matter (PM10)	ug/m²	74.0	For 24 Hrs.=100	
2.	Particulate Matter (PM2.5)	ug/m²	-		IS: 5182 (Part-23)
3.	Sulphur Dioxide (SO2)	500000	42.9	For 24 Hrs.=60	Gravlmetric Method
		hB/m,	10.4	For 24 Hrs. +60	15: 5182 (Part-2)
4	Nitrogen Diaxide (NO2)	µg/m²	21.5	Est Dalla - 45	
_		b.B	21.5	For 24 Hrs.=80	IS: 5182 (Part-8)

****End of Test Report***

CH SERVICES

Page 1 of 1

For Enviro-Tech Services

Formal no ETS (LASVTR-Ot | Issue No 04 at 01/08/2015 Rev No 03 at 01/08/2016

AUTHORIZED SMALAHORY S 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 fest report issued. 3. The results indicated only refer to the tested samples and ilsted applicable parameters.

4. Our liability is limited to invoice value univ.

Notes-





ACL No.- N311120419

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/51-42/11/2017

DATE OF REPORT :21-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

WS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

14-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 13-11-2017

Analysis Start Date

: 16-11-2017

Analysis End Date

: 17-11-2017

Duration Of Sampling

: 13-11-2017

Sample ID No.

: 51-42/11

Sampling Done By

Sampling Location

: ETS STAFF : CHASNALA (AAQ-CZ4)

Sampling Method

Sampling Machine Placed At Height Weather Condition

: ETS/STP/AIR-01

: 3.5 mtr. CLEAR

(From Ground) Ambigat Yespersters

10.5		- OULTY		ransont remperature	24.0 °C
8. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
t.	Particulate Matter (PM10)	µg/m"	72.6	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	45.0	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	sg/m²	10.2	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide (NO2)	hB _(W)	18.9	For 24 Hrs.=80	(S: 5182 (Part-6)
			the state of the s	A CONTRACTOR OF THE PARTY OF TH	

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

DRIZED SKALAFORNIO by. Quality manager

Formut no ETS /LAB/TR-01 Issue No 04 dt 01/05/2016 Rev No 03 dt 01/06/2016

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 manth from the date of test report issued.

The results indicated only refer to the tested samples and listed applicable parameters.



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Acc. No - M31112541N

Environmental Monitoring, Testing and Services

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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/51-40/11/2017

DATE OF REPORT :21-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PO-GHASNALA,

14-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 13-11-2017

Analysis Start Date

: 16-11-2017

Analysis End Date

: 17-11-2017

Duration Of Sampling

13-11-2017

Sample ID No

Sampling Done By

51-40/11

ETS STAFF

Bampling Location

: TASRA (AAO-CZ2)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

1 3,5 mtr.

(From Ground)

Weather Condition

1 CLEAR

Ambient Temperat

				ansociat remperature	: 24.0 °C
5. No.	root r enuncters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1	Particulate Matter (PM10)	ug/m³	78.2	For 24 Hrs.=100	
2.	Particulate Matter (PM2.5)				IS: 5182 (Part-23)
3.		hōim,	45.4	For 24 Hrs.=60	Gravimetric Method
9.	Sulphur Dioxide (SO2)	µg/m ²	11.7	For 24 Hrs =80	
4	Nitrogen Dioxide (NO2)	yg/m²			IS 5182 (Part-2)
-	This is a second to the second	pgrin	21.1	For 24 Hrs.=80	(S 5182 (Part-6)

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

ormatino ETS A.AB/TR-01 | Itelue No 04 dt 01/05/2016 | Rev No 03 dt 01/05/2016

Dy. Quality merreger

AUTHORIZED SIGNATIONY 3

1. This test report shall not be used in any advertising media or as evidence in the court of Low 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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Note:-



An Environmental Analytical Laboratory



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24 D HOUNG

TEST REPORT

TEST REPORT NO: ETS/51-39/11/2017

DATE OF REPORT :21-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

MIS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA.

14-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 13-11-2017

Analysis Start Date

: 16-11-2017

Analysis End Date

17-11-2017

Duration Of Sampling

13-11-2017

Sample ID No

: 51-39/11

Sampling Done By

ETS STAFF

Sampling Location

: ROHRABANDH (AAQ-CZ1)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mitr

(From: Ground)

Weather Condition

CLEAR

Ambient Temperature

24.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ³	79.5	For 24 Hrs.=100	(S: 5182 (Part-23)
2	Particulate Matter (PM2.5)	pg/m²	51.7	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m²	10.3	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Ntrogen Dioxide (NO2)	pg/m²	19.1	For 24 Nrs.×80	18. 9182 (Part-6)
			Company of the Compan	the second secon	A local control by the state of

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

Format na ETS /LAB/TR-01 Issue No D4 dt 01/06/2016 Rev No 03 dt 01/06/2016

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

The samples received shall be destroyed after one month from the date of test report issued.

The results indicated only refer to the tested samples and listed applicable parameters.





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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/51-54/11/2017

DATE OF REPORT :21-11-2017

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, INIDA

Date of Sampling

10-11-2017

Analysis Start Date

17-11-2017

Analysis End Date

18-11-2017

Duration Of Sampling

: 18-11-2017

17-11-2017

24.0 HOURS

Sample ID No

51-54/11

Sampling Done By

Sampling Location

ETS STAFF

Sampling Method

: JORADIH (AAQ-BZ4)

Sampling Machine Placed At Height

ETS/STP/AIR-01 3.5 mtr.

(From Ground)

Weather Condition

CLEAR

No.				constant rembelatifie	22.0 °C	
	, cot r eramoters	Unit	Result	Specification/Limit (ss Per CPCB)	Yest Method	
1	Parsoulate Matter (PM10)	µg/m²	68.3	For 24 Hrs.=100		
2	Particulate Matter (PM2.5)	µg/m²	-		16: 5182 (Part-23)	
-	Sulphur Dioxide (SO2)		28.0	For 24 Hrs.=60	Gravimetric Metho	
-		hā _l m,	6.1	For 24 Hrs =80	18: 5182 (Part-2)	
	Nitrogen Dioxide (NO2)	hā/m,	11.8	For 24 Hrs. =80	IS: 5182 (Part-6)	

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

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

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.



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TEST REPORT

TEST REPORT NO : ETS/51-53/11/2017

DATE OF REPORT :21-11-2017

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, INIDA

Date of Sampling

: 16-11-2017

Analysis Start Date

: 17-11-2017

Analysis End Date

18-11-2017

Duration Of Sampling

16-11-2017

17-11-2017

24.0 HOURS

Sample ID No

: 51-53/11

Sampling Done By

ETS STAFF

Sampling Location

JHARIA (AAQ-BZ3)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

22.6 °C

Weather Condition

: CLEAR

Ambient Temperature

Specification/Limit **Test Method** Result Test Parameters Limit S. No. (as Per CPCB) IS: 5182 (Part-23) For 24 Hrs.=100 Particulate Matter (PM10) up/m 70.0 Gravimetric Method For 24 Hrs.=60 Particulate Matter (PMZ 5) µg/m² 33.6 2 18: 5182 (Part-2) For 24 Hrs. = 80 Sulphur Dioxide (SO2) µg/m² 7.7 3. IS: 5182 (Part-6) For 24 Hrs. =80 Nitrogen Dioxide (NO2) ha/m/ 15.4

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

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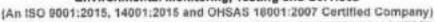
Formatino ETS ALAB/TR-01 | Issue No 04 of 01/05/2016 | Rev No 03 of 01/05/2016

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

2. The samples received shall be destroyed after one month from the date of test report louisd. 3. The results indicated only refer to the tested samples and listed applicable parameters.



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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/51-51/11/2017

DATE OF REPORT :21-11-2017

ISO BEST/14001/CHEAS 18001

Acc. No.- M31112041N

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

M/B, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

17-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 16-11-2017

Analysis Start Date

17-11-2017

Analysis End Date

18-11-2017

Duration Of Sampling

16-11-2017

Sample ID No

51-51/11

Sampling Done By

ETS STAFF

Sampling Location

: AMLABAD (AAQ-BZ1)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	hð,w,	59.3	For 24 Hrs =100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	h8/m,	40.2	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m³	7.6	For 24 Hrs =80	IS: 5182 (Part-2)
4.	Nilrogen Dicoide (NO2)	ug/m²	10.4	For 24 Hrs. =80	IS: 5182 (Part-5)

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

Quality manager

ormat no ETS /LAB/TR-01 Issue No 94 dt 01/06/2016 Rev No 93 dt 01/06/2016

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.

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.



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Acc. No. M21112041N

Environmental Monitoring, Testing and Services

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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/51-52/11/2017

DATE OF REPORT :21-11-2017

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,

17-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

16-11-2017

Analysis Start Date

17-11-2017

Analysis End Date

18-11-2017

Duration Of Bampling

15-11-2017

Sample ID No

51-52/11

Sampling Done By

ETS STAFF

Sampling Location

BAGHMARA (AAC-BZZ)

Sampling Method

ETS/STP/A/R-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

: 22.0 "C

Specification/Limit Test Method Result Unit **Test Parameters** S. No. (as Per CPCS) IS: 5182 (Part-23) For 24 Hrs.=100 Particulate Matter (PM10) ug/m² 67.3 Gravimetric Method For 24 Hrs.=60 Particulate Matter (PM2.5) pg/m 37.0 13: 5162 (Part-2) For 24 H/s.=80 hā_jw. 7.4 Sulphur Dioxide (SO2) ĭ IS: 5162 (Part-6) For 24 Hrs.=80 HB/m 12.8 Nitrogen Diaxide (NO2)

""End of Test Report""

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATIONYS

By. Quality manager

CHECKED B

gerfluit mar ETS.ALAB/TR-D1 Issue No 04 dt 01/06/2018. Rev No 03 dt 01/06/2016. 1. This test report shall not be used in any advertising media or as evidence in the court of 1.2w without prior written permission of the laboratory.

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 Core Habilities to limited to immire value only



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Environmental Monitoring, Testing and Services

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150 5601/14001/OHEAS 18001

SANJANZ

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/51-47/11/2017

DATE OF REPORT :21-11-2017

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,

17-11-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 16-11-2017

Analysis Start Date

: 17-11-2017

Analysis End Date

18-11-2017

Duration Of Sampling

16-11-2017

24.0 HOURS

Sample ID No

51-47/11

Sampling Done By

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr.

(From Ground)

		GLEAR		Ambient Temperature	22.0 'C
8. No.	Test Parameters	Unit	Result	Specification/Limit (aw Per CPCB)	Test Method
1	Particulate Matter (PM10)	µg/m²	78.8	For 24 Hrs.=100	/S: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	51.2	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m ³	10.2	For 24 Hrs.=80	
4	Nitrogen Dioxide (NO2)	pp/m³	18.9	For 24 Hrs.=80	IS. 5182 (Part-2)
-		1.00	10.0	FO: 24 HFA.=00	(S: 5182 (Part-6)

****End of Test Report****

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Page 1 of 1

For Enviro-Tech Services

Formus no ETS (LAS/TR-01 Insue No 04 of 01/06/2018 (New No 03 of 01/06/2016)

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

2. The samples received shall be destroyed after one month from the date of test report based.

3. The results indicated only refer to the tested samples and listed applicable parameters. 4. Our liability is limited to invoice value only.

Notes-



An Environmental Analytical Laboratory



ACC. NO. - MO1112041N

Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO . ET5/51-48/11/2017

DATE OF REPORT :21-11-2017

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,

17-11-2017

DHANBAD, JHARKHAND, INIDA

To

Date of Sampling

: 16-11-2017

Analysis Start Date

17-11-2017

Analysis End Date

18-11-2017

Duration Of Sampling

16-11-2017

51-48/11

Sampling Done By

Sample ID No

ETS STAFF

Sampling Location

: TASRA (AAQ-CZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

1 3.5 mtr.

(From Ground) **Ambient Temperature**

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
	Particulate Matter (PM10)	ug/m²	77.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	45.0	For 24 Hrs.=60	Gravimetric Method
3	Sulphur Disside (SO2)	ug/m²	11.6	Far 24 Hrs.=88	IS: 5182 (Part-2)
	Nitrogen Dioxide (NO2)	µg/m²	20.9	For 24 Hrs. =80	15: 5182 (Part-6)

End of Test Report***

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Page 1 of 1

For Enviro-Tech Services

a ETG ILABITR 01 | Neue No 04 dt 01/05/2010 Rev No 03 dt 01/06/2015 1. This test report shall not be used in any advertising media or us evidence in the court of Law without prior written permission of the inburniary.

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.

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An Environmental Analytical Laboratory



Acc. No - M31112041N

Environmental Monitoring, Testing and Services

(An ISO 9001:2015, 14001:2015 and OHSAS 18001:2007 Certified Company)

Recognised by MoEF (Govt. of India), Accredited by ISO/IEC-17025:2005 (NABL) & UPPCB G-232, M.G. Road Industrial Area, Hapur-Ghazlabad. (U.P.)-201015

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TEST REPORT

TEST REPORT NO. ETS/51-49/11/2017

DATE OF REPORT :21-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

I TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED. PO-CHASHALA.

17-11-2017

24.0 HOURS

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 16-11-2017

Analysis Start Date

17-11-2017

Analysis End Date

18-11-2017

Duration Of Sampling

10-11-2017

Sample ID No

16-11-2017

51-49/11

Sampling Done By

ETS STAFF

Sampling Location

E10 STAFF

Sampling Method

: KANDRA (AAQ-GZ3)

Sampling Machine Placed At Height

: ETS/STP/AIR-01

3.5 mtc.

mtr. (From Ground)

Weather Condition

: CLEAR

Ambient Temperature

22.0 10

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Par CPCB)	Test Method
t,	Particulate Matter (PM10)	µg/m³	73.3	For 24 Hrs.=100	15: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	hā/m,	42.5	For 24 Hrs. =60	Gravimetric Method
3	Sulphur Dioxide (SO2)	µg/m²	10.3	For 24 H/s =80	16; 5182 (Pan-2)
4	Nitrogen Cloxide (NCI2)	ug/m²	21.3	For 24 Hrs.=80	IS: 5162 (Pan-6)

""End of Test Report""

FOR ENTIRO-TECH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED AND HUMITA

net no ETB /LAB/TR-01 | Issue No 64 dt 01/06/2016 | Rev No 63 dt 01/06/2018

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

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.



An Environmental Analytical Laboratory



ISO 9001/14001/OHSAS 18001 Acc. No. 1031112541N

Environmental Monitoring, Testing and Services

(An ISO 9001:2015, 14001:2015 and OHSAS 18001:2007 Certified Company)

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email : etslab2012@gmail.com | Website : www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/51-50/11/2017

DATE OF REPORT :21-11-2017

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, INIDA

Date of Sampling

: 16-11-2017

Analysis Start Date

17-11-2017

Analysis End Date **Duration Of Sampling** 18-11-2017

16-11-2017

17-11-2017 24.0 HOURS

Ambient Temperature

Sample ID No

: 51-50/11

Sampling Done By

ETS STAFF

Sampling Location

: CHASNALA (AAQ-CZ4)

Sampling Method

Wantier Condition

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr. : CLEAR (From Ground)

: 22.0 °C

5. No.	Test Parameters	Unit	Rosult	Specification/Limit (as Per CPGB)	Test Method
1.	Particulate Matter (PM10)	µg/m*	71.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	pp/m²	44.6	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m²	10.1	For 24 Hrs.=80	IS: 5182 (Part-2)
	Nitrogen Dioxide (NO2)	µg/m'	18.7	For 24 Hrs.=80	IS: 5182 (Part-5)

****End of Test Report****

FOR END

Page 1 of 1

For Enviro-Tech Services

met no ETS /LAB/TR-01 | Issue No 04 di 01/09/2016 | Rev No 03 di 01/09/2016

AUTHORIZED BIOTH Dy. Quality manager 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 luboratory.

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 purameters.

4 Char liability is limited to immice value pade



An Environmental Analytical Laborator



Acc. No.- M31112041N

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-10/10/2017

DATE OF REPORT 18-10-2017

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.

13-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

12-10-2017

Analysis Start Date

15-10-2017

Analysis End Date

16-10-2017

Duration Of Sampling

12-10-2017

Sample ID No

Sampling Done By

120-10/10

Sampling Location

ETS STAFF

TASRA (AAO-CZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mir. CLEAR

(From Ground)

		- GLENN		Ambient Temperature	25.0 °C
S. No.	Test Parameters	Unit	Rosuit	Specification/Limit (as Per CPCB)	Test Method
Ji	Particulate Matter (PM10)	µg/m²	78.5	For 24 Hrs =100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	hā/m,	45.5	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	hB/m,	11.6	For 24 Hrs =80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.63	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	22.0	For 24 Hrs.=80	IS: 5182 (Part-5)
6.	Lead (Pb)	hB/W ₁	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m²	27.5	For 8 Hrs.=100/ For 1 Hrs.=160	IS: 5182 (Part-9)
đ.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs #400	Indophenol Blue Metho
9.	Benzo (a) Pyrine (BaP)	ng/m ^a	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickal (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (CBH6)	µg/m"	1.02	For 24 Hrs.=5	IS: 5182 (Part-11)
12	Arsenic (As)	ng/m ³	N.D.	For Annual=05	IS: 5182 (Part-22)

****End of Test Report****

FOR ENVIRE

at no ETS /LAB/TR-01 Issue No 04 at 01/05/2016 Rev No 03 at 01/05/2016

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SINKA TOATTE

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.



An Environmental Analytical Laboratory



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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph. 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/120-09/10/2017

DATE OF REPORT :18-10-2017

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,

13-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

12-10-2017

Analysis Start Date

15-10-2017

Analysis End Date

16-10-2017

Duration Of Sampling

12-10-2017

24.0 HOURS

Sample ID No

120-09/10

Sampling Done By

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

25.0 °C

s. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Parsculate Matter (PM10)	µg/m³	79.8	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Parioutate Matter (PM2.5)	µg/m"	51,9	For 24 Hrs #60	Gravimetric Method
3.	Sulphur Dioxide (802)	ug/m*	8.8	For 24 Hrs.=80	16; 5182 (Part-2)
4	Carbon Monoxide (CO)	mg/m ³	0.56	For 8 Hrs.=02 / For 1 Hrs.=04	15: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m²	17.6	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m ³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	ug/m²	26.3	For 8 Hrs.=100/ For 1 Hrs.=150	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m"	NIL	For 24 Hrs.=400	Indophenol Blue Metho
9.	Benzo (a) Pyrine (BaP)	ng/m/	N.D.	For Annuai=01	IS: 5182 (Part-12)
10.	Nickel (NI)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
1000	Benzene (C6H6)	µg/m²	1.20	Fox 24 Hrs.=5	IS: 5182 (Part-11)
11.	Arsenic (As)	'ngim'	N.D.	For Annual=08	IS: 5182 (Part-22)
164	Landering D. 100				"End of Test Report"

Page 1 of 1

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Personal no ETS /LAB/TR-01 | Issue No 04 at 01/06/2016 | Rev No 03 at 01/06/2016

For Enviro-Tech Services

AUTHORIZED WEN ATOMYO

Dy. Quality manager

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 isourd.

3. The results indicated only refer to the tested samples and listed applicable parameters.



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email: etslab2012@gmail.com | Website . www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/45/120-12/10/2017

DATE OF REPORT 18-10-2017

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,

13-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

12-10-2017

Analysis Start Date

15-10-2017

Analysis End Date

16-10-2017

Duration Of Sampling

12-10-2017

Sample ID No

120-12/10

Sampling Done By

ETS STAFF

Sampling Location

CHASNALA (AAQ-CZ4)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr. : CLEAR (From Ground) Ambient Temperature

a management	t. September 11 to		contract resignatures	23.0 0
Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
Particulate Matter (PM10)	pg/m ³	72.9	For 24 Hrs.=100	18: 5182 (Part-23)
Parsoulate Matter (PM2.5)	µg/m²	45.2	For 24 Hrs.=60	Gravimetric Method
Sulphur Dioxide (SO2)	µg/m ³	10.2	For 24 Hrs.=80	IG: 5182 (Part-2)
Carbon Monoxide (CO)	mg/m ^a	0.66	For 8 Hrs.=02 / For 1 Hrs.=04	1S: 5182 (Part-10)
Nitrogen Dioxide (NO2)	pg/m"	16.6	For 24 Hrs =80	IS: 5182 (Part-6)
Lead (Pb)	µg/m²	N.D.	For 24 Hrs = 1.0	IS: 5182 (Part-22)
Ozone (O3)	µg/m²	27.7	For 8 Hrs.=100/ For 1 Hrs.=150	15: 5182 (Part-9)
Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indophenol Blue Method
Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
Nickel (Ni)	ng/m"	N.D.	For Annual=20	IS: 5182 (Part-22)
Benzene (C6H6)	µg/m²	1.24	For 24 Hrs.+5	IS: 5182 (Part-11)
Arsenic (As)	ng/m²	N.D.	For Annual=06	IS: 5182 (Part-22)
	Test Parameters Particulate Matter (PM10) Particulate Matter (PM2.5) Sulphur Dioxide (SO2) Carbon Monoxide (CO) Nitrogen Dioxide (NO2) Lead (Pb) Ozone (O\$) Ammonia (NH3) Benzo (e) Pyrine (BaP) Nickel (Ni) Benzene (C6H6)	Test Parameters Unit Particulate Matter (PM10) µg/m² Particulate Matter (PM2.5) µg/m² Sulphur Dioxide (SO2) µg/m² Carbon Monoxide (CO) mg/m² Nitrogen Dioxide (NO2) µg/m² Lead (Pb) µg/m² Ozone (OS) µg/m² Antmonia (NH3) µg/m² Benzo (a) Pyrine (BaP) ng/m² Nickel (NI) ng/m² Benzene (C6H6) µg/m²	Test Parameters Unit Result	Test Parameters

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

nat no ETS /LAB/TR-01 Issue No 64 at 01/06/2016 Rev No 03 dt 01/06/2018

Notes-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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An Environmental Analytical Laboratory



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Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-11/10/2017

DATE OF REPORT :18-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

M/S, STEEL AUTHORITY OF INDIA LIMITED, PC-CHASNALA,

13-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

12-10-2017

Analysis Start Date

15-10-2017

Analysis End Date

16-10-2017

Duration Of Sampling

12-10-2017

Sample ID No

120-11/10

Sampling Done By

ETS STAFF

Sampling Location

KANDRA (AAQ-CZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

: 25.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
W. 14W.	A PROPERTY OF THE PARTY OF THE	- Ind		For 24 Hrs.=100	IS: 5162 (Part-23)
1.	Particulate Matter (PM10)	µg/m"	74.3	For 24 Hrs.=50	Gravimetric Method
2	Particulate Matter (PM2.5)	pp/m²	43.1		16. 5182 (Part-2)
-	Sulphur Diaxide (SO2)	µg/m²	10.4	For 24 Hrs.=00	
3.		mg/m²	0.71	For 8 Hrs.=02 / For 1 Hrs =04	(S: 5182 (Part-10)
4.	Carbon Monoxide (CO)		77.55	For 24 His. =80	16: 5182 (Part-6)
5.	Nitrogen Dioxide (NO2)	hð/m,	20.1	For 24 Hrs.=1.0	IS: 5182 (Pan-22)
6.	Lead (Pb)	hā/w,	N.D.		STREET, STREET
77	Ozone (O3)	µg/m ³	28.2	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Pert-9)
7.		ha.m.	NIL	For 24 Hrs.=400	Indophenul Blue Method
8.	Ammonia (NH3)	CONTRACTOR		For Annual=01	IS: 5182 (Part-12)
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.		(S. 5182 (Part-22)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	
	M 200 A 200	µg/m²	1.26	For 24 Hrs.=5	IS: 5182 (Part-11)
11,	Benzene (C8H6)	ngim'	N.D.	For Annual=06	IS: 5182 (Part-22)
12.	Arsenic (As)	ngan	PE-LO.	1	"End of Test Report"

Page 1 of 1

For Enviro-Tech Services

Dy. Quality managur

at no ETS ALAB/TR-01 Issue No 04 dt 01/05/2016 Rev No 03 dt 01/05/2016

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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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An Empiranmental Analytical Laboratory



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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-13/10/2017

DATE OF REPORT: 18-10-2017

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,

13-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 12-10-2017

Analysis Start Date

15-10-2017

Analysis End Date

15-10-2017

Duration Of Sampling

Sample ID No

12-10-2017

Sampling Done By

120-13/10

Sampling Location

ETS STAFF

Control Control

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3,5 mtr. : CLEAR (From Ground)

Ambient Temperature

25.0 °C

	NATURE STATES	7		Commence Complete Commence	600
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	pg/m"	68.3	For 24 Hrs. =100	18: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	37.6	For 24 Hrs.#60	Gravimetric Method
3.	Sulphur Dioxide (BO2)	µg/m³	7.5	For 24 Hrs.=80	15: 5162 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.51	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m²	17.8	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	(S: 5182 (Part-22)
7.	Ozone (O3)	µg/m²	15.7	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Pnrt-9)
8.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indophenol Bius Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Ansual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	1.23	For 24 H/s.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ^s	N.D.	For Annual⇒06	IS: 5182 (Part-22)
_					SEE and of Total Contractions

****End of Test Report****

FOR ENVIRONMENTECH SERVICES

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATION PROPERTY DIS. Quality manager

Note:-

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

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.

The results indicated only refer to the tested samples and listed applicable parameters.



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1



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Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24 D HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-12/10/2017

DATE OF REPORT :18-10-2017

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.

13-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 12-10-2017

Analysis Start Date

15-10-2017

Analysis End Date

16-10-2017

Duration Of Sampling

12-10-2017

Sample ID No

120-12/10

Sampling Done By

ETS STAFF

Sampling Location

AMLABAD (AAQ-8Z1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

25.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Paraculate Matter (PM10)	ug/m²	70.3	For 24 Hrs.=100	IS: 5182 (Pert-23)
2	Particulate Matter (PM2.5)	µg/m²	40.8	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (BO2)	µg/m²	7.7	For 24 Hrs.=80	18 5182 (Part-2)
	Carbon Monoxide (CO)	mg/m³	0.63	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
4.	Nargen Dioxide (NO2)	µg/m²	13.4	For 24 H/s.=80	IS: 5182 (Part-6)
5.		µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
6.	Lead (Pb)	ug/m²	28.8	For 8 Hrs.=100/ For 1 Hrs.=160	15: 5182 (Part-9)
7.	Ozone (O3)	µg/m³	NIL	For 24 Hrs.≈400	Indephenol Blue Metho
8.	Ammonia (NH3)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
D.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual*20	IS: 5182 (Part-22)
10.	Nickel (Ni)	µg/m²	0.70	For 24 Hrs =5	IS: 5182 (Part-11)
11.	Benzene (C6H6)		-	For Annual=06	IS: 5182 (Part-22)
12	Arsenic (As)	ng/m*	N.D.		"End of Test Report"

Page 1 of 1

FOR ENVIRQ

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ETS AAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2018

For Enviro-Tech Services

AUTHORIZED SIGNAHORY3

Dy. Quality manager

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.





AGE No - 831112041N

Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO: ETS/46/120-15/10/2017

DATE OF REPORT :18-10-2017

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.

13-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 12-10-2017

Analysis Start Date

: 15-10-2017

Analysis End Date

16-10-2017

Duration Of Sampling

12-10-2017

Sample ID No

120-15/10

Sampling Done By

ETS STAFF

Sampling Location

JORADIH (AAQ-BZ4)

Sampling Method

: ETS/STP/A/R-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr. CIEAR

(From Ground)

	ar Gorialiani	GLEAN		Ambient Temperature	25.0 °C
5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	hō/m²	69.3	For 24 Hrs.#100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m ^o	37.4	For 24 Hrs.=60	Gravimatric Marhad
3.	Bulphur Dioxide (SO2)	µg/m²	5.2	For 24 Hrs. +80	IS: 5182 (Pert-2)
4	Carbon Monoxide (CO)	mg/m²	0.38	For 8 Hrs. =02 / For 1 Hrs. =04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	μg/m ³	13.2	For 24 Hrs.=80	IS: 5182 (Part-6)
0.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7:	Ozone (O3)	µg/m³	18,7	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
В.	Ammonia (NH3)	hō/mª	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual≃01	IS: 5182 (Part-12)
10.	Nickel (NI)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	0.69	For 24 Hrs.=5	IS: 5182 (Part-11)
12	Arsenic (As)	ng/m³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

FOR ENVIR CHECKED Page 1 of 1

For Enviro-Tech Services

met no ETS /LAB/TR-01 | Issue No 04 dt 01/05/2016 | Rev No 03 dt 01/05/2016

Dy. Quality manager Notes-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 mouth from the date of test report issued. The results indicated only refer to the tested samples and lixted applicable parameters.





ACE NO.- METITIONIN

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

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/120-14/10/2017

DATE OF REPORT :18-10-2017

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, INIDA

Date of Sampling

12-10-2017

Analysis Start Date

15-10-2017

Analysis End Date

18-10-2017

Duration Of Sampling

12-10-2017

13-10-2017

Ambient Temperature

24.0 HOURS

Sample ID No

120-14/10

Sampling Done By

ETS STAFF

Sampling Location

JHARIA (AAQ-623)

Sampling Method

ETS/STP/AIR-01

ngim

Sampling Machine Placed At Height

3.5 mtr. CLEAR

(From Ground)

: 25.0 °C

Weathe	r Condition	: CLEAR		Ambient Temperature	. 25.0 °C
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	71.0	For 24 Hrs.=100	VS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	34.1	For 24 Hrs.=60	Gravimetric Method
3.	Bulghur Dioxide (902)	µg/m³	7.8	For 24 Hrs.=60	18: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.43	For 8 Hrs.#02 / For 1 Hrs.#04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	ug/m²	17.8	For 24 Hrs.#80	I5: 5182 (Part-6)
6.	Lead (Pb)	ug/m ^a	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	ug/m²	19.9	For 8 Hrs.=100/ For 1 Hrs.=180	
8.	Ammonia (NH3)	µg/m²	NIL.	For 24 Hrs.=400	Indophesol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual#01	IS: 5182 (Part-12)
	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
10.	Benzene (C8H6)	µg/m ³	0.71	For 24 Hrs.=5	IS: 5182 (Part-11)
11.	Beuseus (count)	noim	ND	For Annual=06	IS: 5182 (Part-22)

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Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

****End of Test Report****

CHECKED

12

Arsenic (As)

70'ETS /LAS/TR-01 Issue No 04 of 01/06/2016 Rev No 03 of 01/06/2016

Note:

1. This test report shall not be essed 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 bowed,

A The results indicated only refer to the tested samples and fixed applicable parameters.



An Environmental Analytical Laboratory



ACE. No.- M21112041N

Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24 0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-02/10/2017

DATE OF REPORT :18-10-2017

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,

10-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 09-10-2017

Analysis Start Date

12-10-2017

Analysis End Date

13-10-2017

Duration Of Sampling

09-10-2017

Sample ID No

120-02/10

Sampling Done By

ETS STAFF

Sampling Location

TASRA (AAQ-CZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr. CLEAR (From Ground) Ambient Temperature

	The second secon	The second second			- C. M. S. 1971 1975
5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
21.	Particulate Matter (PM10)	µg/m²	79.2	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	45.9	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Dioxide (GO2)	hā _l m ₃	11.9	For 24 Hrs.=80	IS: \$182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.63	For 8 Hrs.=02 / For 1 Hrs.=04	15: 5182 (Part-10)
5.	Ntrogen Dioxide (NO2)	µg/m²	22.2	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	hā/m²,	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m ³	27.7	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	ha.u.,	NIL	For 24 Hrs.=400	Indophenol Blue Method
9.	Benzo (a) Pynne (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual+20	IS: 5182 (Part-22)
11.	Benzone (C6H6)	µg/m²	1.03	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m²	N.D.	For Annual#06	IS: 5182 (Parl-22)
_					CONTRACTOR OF THE PARTY OF THE

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIMICATION PO Dy. Quality manager

Note:-

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ormat no ETS /LAB/TR-01 | Issue No 04 dt 01/06/2016 | Rev No 03 dt 01/06/2015 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.



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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph., 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-01/10/2017

DATE OF REPORT :18-10-2017

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.

10-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

09-10-2017

Analysis Start Date

12-10-2017

Analysis End Date

13-10-2017

Duration Of Sampling

09-10-2017

Sample ID No

120-01/10

Sampling Done By

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Mothod

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

CLEAR

Ambient Temperature

Months	r Condition	: CLEAR		Permitteeter Contract	4-14
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPGB)	Test Method
350783	5000	µg/m'	80.5	For 24 Hrs. #100	IS: 5182 (Part-23)
1	Particulate Matter (PM10)		-	For 24 Hrs. #60	Gravimetric Method
2	Particulate Matter (PM2.5)	hā,w,	52.3	(2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	is: 5182 (Part-2)
	Sulphur Diaxide (SO2)	µg/m²	8.9	For 24 Hrs.+00	
3.		mg/m²	0.56	For 8 Hrs.=02 / For 1 Hrs.=04	(8: 5182 (Part-10)
4.	Carbon Monoxide (CO)	100-70	-	For 24 Hrs.=80	IS: 5182 (Part-6)
5.	Nitrogen Dioxide (NO2)	pg/m²	17.7		IS: 5182 (Part-22)
	and the same of th	µg/m²	N.D.	For 24 Hrs.=1.0	
6.	Lead (Pb)	µg/m²	26.6	For 8 Hrs. +100/ For 1 Hrs. =160	IS: 5182 (Part-9)
7.	Ozone (O3)		40000	For 24 Hrs.=400	Indophenol Blue Metho
8.	Ammorsia (NH3)	ug/m²	NIL		IS: 5182 (Part-12)
-	Benzo (a) Pyrine (BaP)	ngim	N.D.	For Annual=01	
9.	Deliza (a) Fyline (Del)	ng/m²	N.D.	For Annual=20	iS: 5182 (Part-22)
10.	Nickel (Ni)			For 24 Hrs.=5	IS: 5182 (Part-11)
11.	Benzene (C6H5)	pg/m²	1.21		IS: 5182 (Part-22)
- 00		noim	N.D.	For Annual=06	The second secon
12	Arsenic (As)				*** End of Test Report**

****End of Test Report****

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Page 1 of 1

For Enviro-Tech Services

not no ETS /LAB/TR-01 | Issue No 04 dt 01/06/2016 | Rev No 03 dt 01/06/2016

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.

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.



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ASC. No. M21112041N

Environmental Monitoring, Testing and Services

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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/46/120-04/10/2017

DATE OF REPORT:18-10-2017

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.

10-10-2017

Ambient Temperature

DHANBAD, JHARKHAND, INIDA

Date of Sampling

09-10-2017

Analysis Start Date

12-10-2017

Analysis End Date

13-10-2017

Duration Of Sampling

09-10-2017

120-04/10

Sampling Done By

Sample ID No.

Sampling Location

ETS STAFF

: CHASNALA (AAQ-CZ4)

Sampling Method

Weather Condition

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr. : CLEAR

(From Ground)

	i Galiminati	· where		remaining remparation	ELLO C
5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
21.	Particulate Matter (PM10)	µg/m²	73.6	For 24 Hrs.=100	IS: 5182 (Parl-23)
2.	Particulate Matter (PM2.5)	µgm"	45.6	For 24 Hrs.=60	Gravimetric Method
3	Bulphur Diaxide (SO2)	µg/m ³	10.3	For 24 Hrs.≃80	iS 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.66	For 8 Hrs.=02 / For 1 Hrs.=04	18: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	pg/m²	16.9	For 24 Hrs.=80	IS. 5182 (Part-6)
6.	Lead (Pb)	µg/m ⁻¹	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m ²	28.0	For 8 Hrs.=100' For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m²	NIL.	For 24 Hrs.=400	Indophenol Blue Metho
9.	Benzo (a) Pynne (BaP)	ng/m²	N.D.	For Annual=01	IS: 5162 (Part-12)
10.	Nickel (NI)	ng/m³	N.D.	For Annual=20	IS: 5162 (Part-22)
11.	Benzene (CBH0)	µg/m²	1.25	For 24 Hrs.≈5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m ^d	N.D.	For Annual=08	15: 5182 (Part-22)

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

that no ETS /LAB/TR-01 | leave No 64 dt 01/06/2016 | Rev No 03 dt 01/06/2016

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.

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 flability is limited to invoice value only.

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Notes-



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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-03/10/2017

DATE OF REPORT :18-10-2017

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.

10-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

09-10-2017

Analysis Start Date

12-10-2017

Analysis End Date

13-10-2017

Duration Of Sampling

09-10-2017

120-03/10

Sample ID No

Sampling Done By

ETS STAFF

Sampling Location

KANDRA (AAQ-CZ3)

Sampling Mathod

ETS/STP/AIR-01

Campling Machine Placed At Height

3.5 mir.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

: 27.0 °C

Weather	Condition	GLEAR		Specification/Limit	Test Method
S. No.	Test Parameters	Unit	Result	(as Per CPCB)	
a. 140.		110000	75.0	For 24 Hrs.=100	IS: 5182 (Part-23)
1.	Particulate Matter (PM10)	µg/m²		For 24 Hrs.#60	Gravimetric Method
2	Particulate Matter (PM2.5)	hā/m,	43.5	570 IN 15 (0.00)	(8: 5182 (Part-2)
	Sulphur Dioxide (SO2)	µg/m ³	10.5	For 24 Hrs.=80	IS: 5182 (Part-10)
3.		mg/m³	0.71	For 8 Hrs.=02 / For 1 Hrs.=04	
4.	Carbon Monoxide (CO)			For 24 H/s.=80	IS: 5182 (Part-8)
5.	Nitrogen Dioxide (NO2)	hōju,	20.3	For 24 H/s.=1.0	tS: 5182 (Part-22)
6.	Lead (Pti)	hg/m/	N.D.		IS: 5182 (Part-9)
		µg/m/	28.5	For 8 Hrs.=100/ For 1 Hrs.=180	Indophonal Blue Metho
7	Ozone (O3)	µg/m ³	NIL	For 24 Hrs.=400	
8.	Ammonia (NH3)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
Đ.	Benzo (a) Pyrine (BaP)	The second second second	-	For Annual=20	IS: 5182 (Part-22)
10.	Nickel (Ni)	ng/m²	N.D.	710/20/20/15/20/20	(5: 5182 (Part-11)
	Benzene (C6H8)	'µg/m'	1.28	For 24 Hrs.#5	IS: 5182 (Part-22)
11		ng/m³	N.D.	For Annual=06	
12	Arsenic (As)	100,111	1 1100		"End of Test Report"

FOR EN CHECKER Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

net no ETS A.AB/TR-01 Issue No 04 dt 01/05/2016 Rev No 03 dt 01/05/2016

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.

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ACE, No.- M31112041N

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24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-06/10/2017

DATE OF REPORT: 18-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

MIS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

10-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

09-10-2017

Analysis Start Date

12-10-2017

Analysis End Date

13-10-2017

Duration Of Sampling

09-10-2017

Sample ID No

Sampling Done By

120-06/10

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

27.0 '0

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m"	69.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	38.0	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m²	7.6	For 24 Hrs.=80	16: 5162 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0.52	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5152 (Part-10)
6.	Nitrogen Dioxide (NO2)	µg/m²	17.9	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs =1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m*	15.9	For 5 Hrs =100/ For 1 Hrs =180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m*	NIL	For 24 Hrs. = 400	Indophenol Blue Method
9	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H5)	µg/m³	1.24	For 24 Hrs.=5	IS: 5182 (Part-11)
12	Arsenic (As)	ngim³	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

nat no ETS/LAB/TR-01 | Issue No 04 of 01/06/2016 | Rev No 03 of 01/06/2016

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

Notes-

CHECKE

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.

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 fisted applicable parameters.



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

email: etslab2012@gmail.com | Website www.etslab.asia

Ph. 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/120-05/10/2017

DATE OF REPORT :18-10-2017

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, INIDA

Date of Sampling

: 09-10-2017

Analysis Start Date

12-10-2017

Analysis End Date

13-10-2017

Duration Of Sampling

09-10-2017

10-10-2017

24.0 HOURS

Sample ID No

120-05/10

Sampling Done By

ETS STAFF

Sampling Location

AMLABAD (AAQ-BZ1) ETS/STP/AIR-01

Sampling Method

3.5 mtr.

(From Ground)

	Machine Placed At Height : r Condition :	3.5 mtr. CLEAR	(From Gro	Ambient Temperature Specification/Limit	27.0 °C Test Method
	Test Parameters	Unit	Result	(as Per CPCB)	
S. Na.	Test Farameters			For 24 Hrs.=100	IS: 5182 (Part-23)
1.	Particulate Matter (PM10)	hā/u	71.0	For 24 Hrs. #60	Gravimetric Method
17.	Pariculate Matter (PM2.5)	µg/m"	41,2		(8: 5182 (Part-2)
2.	Bulphur Diexide (BO2)	µg/m²	7.8	For 24 Hrs.=80	IS: 5182 (Part-10)
3.		mg/m²	0.64	For 8 Hrs.=02 / For 1 Hrs.=04	The second later in the property of the party of the second later in the second later
4.	Carbon Monoxide (CO)	ug/m²	13.5	For 24 Hrs.≈80	IS: 5182 (Part-6)
5.	Nitrogen Dioxide (NO2)	and the second s	1	For 24 Hrs.=1.0	15: 5182 (Part-22)
8.	Lead (Pb)	hð _l w,	- Contract of the Contract of	For 8 Hrs.=100' For 1 Hrs.=180	IS: 5182 (Part-9)
7.	Ozone (O3)	hð,w,	29.1	For 24 Hrs.=400	indophenol Blue Metho
8.	Ammonia (NH3)	µg/m"	NIL	For Annual=01	IS: 5182 (Part-12)
-	Benzo (a) Pyrine (BaP)	ng/m'	N.D.		IS: 5182 (Part-22)
9.	The state of the s	ng/m²	N.O.	For Annual*20	IS 5182 (Part-11)
10.	Nickel (Ni)	µg/m²	0.71	For 24 Hrs.=5	The second secon
11.	Benzene (CBHS)	ng/m²	N.D.	For Annual=06	IS: 5182 (Part-22)
12.	Arsenic (As)	ngace	34,10		****End of Test Report***

Page 1 of 1

For Enviro-Tech Services

CHEC

mat no ETS ALAB/TR-01 - Issue No 04 et 01/08/2016 Rev No 03 di 01/08/2016

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 exceived shall be destroyed after one month from the dute of test report besired.

3. The results indicated only refer to the tested samples and listed applicable parameters.



An Environmental Analytical Cabaratory



Atc. No - M31112041H

Environmental Monitoring, Testing and Services

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G-232, M.G. Road Industrial Area, Hapur-Ghaziabad. (U.P.)-201015 email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO . ETS/46/120-08/10/2017

DATE OF REPORT :18-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

Sampling Machine Placed At Height

: TASRA COAL MINING PROJECT

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

10-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

09-10-2017

Analysis Start Date

12-10-2017

Analysis End Date

13-10-2017

Duration Of Sampling

09-10-2017

Sample ID No

120-08/10

Sampling Done By

ETS STAFF

Sampling Location

JORADIH (AAQ-BZ4)

Sampling Method

ETS/STP/AIR-01

(From Ground)

Weather Condition

3.5 mtr. · CLEAR

Ambient Temperature

: 27.0 'C

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1	Particulate Matter (PM10)	µg/m"	70.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	28.7	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Diexide (BO2)	µg/m²	6.3	For 24 Hrs.=80	16: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m³	0,39	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (ND2)	µg/m"	13.3	For 24 Hrs.=80	IS: 5182 (Part-6)
0.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m²	18,9	For 8 Hrs.=100/ For 1 Hrs.=160	(5: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m"	NIL	For 24 Hrs.=400	Indophenoi Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m³	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H5)	µg/m³	0.84	For 24 Hrs.=5	15: 5182 (Part-11)
12.	Arsenic (At)	ng/m²	N.D.	For Annual=06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SMALAHURNIA Dy. Quality manager

Format no ETS /LAB/TR-01 Issue No 04 dt 01/05/2016. Rev No 03 dt 01/05/2016

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

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.



An Environmental Analytical Laboratory



ACE. NO - 1931112041N

Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/120-07/10/2017

DATE OF REPORT :18-10-2017

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.

10-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

09-10-2017

Analysis Start Date

12-10-2017

Analysis End Date

13-10-2017

Duration Of Sampling

09-10-2017 To

Sample ID No

120-07/10

Sampling Done By

ETS STAFF

Sampling Location

JHARIA (AAO-BZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

: 27.0 °C

Weatho	Condition	- GLESTON		Specification/Limit	Test Method
S. No.	Test Parameters	Unit	Result	(as Per CPCB)	- NAME OF THE OWNER OWN
g, rece		-	74.7	For 24 Hrs.=100	(S: 5182 (Part-23)
1.	Particulate Matter (PM10)	hā/m,	71.7	For 24 Hrs. =60	Gravimetric Method
2.	Particulate Matter (PM2.5)	ha.u.,	34.4	For 24 Hrs.=80	18: 5182 (Part-2)
3.	Bulphur Dioxide (BO2)	ha/w,	7.9		IS: 5182 (Pan-10)
	Carbon Monoxide (CO)	mg/m²	0.43	For 8 Hrs.=02 / For 1 Hrs.=04	is: 5182 (Part-5)
4.	A CONTRACTOR OF THE PARTY OF TH	µg/m³	17.9	For 24 Hrs. = 80	THE RESERVE AND ADMINISTRATION OF THE PARTY
5.	Nitrogen Dioxide (NO2)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
6.	Lead (Pb)			For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
7.	Ozone (O3)	µg/m"	20.1	For 24 Hrs =400	Indophenol Blue Method
8.	Ammonia (NH3)	hā _l m,	NIL	For Annual=01	IS: 5162 (Purt-12)
9	Benzo (a) Pyrine (BaP)	ng/m'	N.D.	1770101201201201	IS: 5182 (Part-22)
		ng/m²	N.D.	For Annual*20	
10.	Nickel (Ni)	µg/m²	0.72	For 24 Hrs.=5	IS: 5182 (Part-11)
11.	Senzene (CSHS)		-	For Annual=06	IS: 5182 (Part-22)
12	Arsenic (As)	ng/m³	N.D		"End of Test Report"

Page 1 of 1

For Enviro-Tech Services

CHECKED natino ETS /LAS/TR-01 Issue No 04 dt 01/05/2016 Rev No 03 dt 01/05/2018

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.

The samples received shall be destroyed after one mouth from the date of test report located.

3. The results indicated only refer to the tested samples and listed applicable parameters.

4. Our flability is limited to invoice value only.

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An Environmental Analytical Laboratury



ISO BOOTH 4001/OHBAS 18001 ACC. No.- M31112041N

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/88-10/10/2017

DATE OF REPORT :11-10-2017

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,

07-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 05-10-2017

Analysis Start Date

09-10-2017

Analysis End Date

10-10-2017

Duration Of Sampling

05-10-2017

Sample ID No

88-10/10

Sampling Done By

: ETS STAFF

Sampling Location

TASRA (AAQ-CZ2)

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	77.0	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m³	44.7	For 24 Hrs. =60	Gravimatric Method
3	Sulphur Diexide (SO2)	µg/m²	11.6	For 24 Hrs =80	IB: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.62	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m³	21.6	For 24 Hrs =80	IS: 5182 (Part-6)
8.	Lead (Pb)	µg/m³	N.D.	For 24 Hrs = 1.0	IS: 5182 (Part-22)
7,	Ozone (O3)	µg/m ³	27.0	For 8 Hrs =100/ For 1 Hrs =180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m"	NIL	For 24 Hrs. =400	Indephenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (CSHS)	µg/m²	1.00	For 24 Hrs.=5	IS: 5182 (Part-11)
12	Arsenic (As)	ng/m²	N.D.	For Annual=06	IS: 5182 (Part-22)

"End of Test Report"

ERVICES

Page 1 of 1

For Enviro-Teich Services

AUTHORIZED SIGNATORY 3 Dy. Quality manager

Format no ETS /LAB/TR-01 Issue No 04 dt 01/06/2015 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 mouth from the date of test report bound.

3. The results indicated only refer to the tested samples and listed applicable parameters.





Acc. No.- M31112041N

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/68-09/10/2017

DATE OF REPORT :11-10-2017

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,

07-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 08-10-2017

Analysis Start Date

09-10-2017

Analysis End Date

10-10-2017

Duration Of Sampling

06-10-2017

Sample ID No

88-09/10

Sampling Done By

ETS STAFF

Sampling Location

ROHRABANDH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

. CLEAR

Ambient Temperature

: 26.0 50

Weathe	r Condition	: OLEAN		Particular Franchistoria	
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	78.3	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	pg/m²	50.9	For 24 Hrs. 460	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m²	8.6	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m ³	0.55	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Diaxide (NO2)	µg/m²	17.2	For 24 Hrs.=80	IS: 5182 (Part-5)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	pg/m ³	25.8	For 8 Hrs. =100/ For 1 Hrs. =180	
В.	Ammaria (NH3)	µg/m²	MIL	For 24 Hrs.#400	Indophenol Blue Metho
9.	Benzo (a) Pyrine (BaP)	ng/m³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Nii)	ng/m³	N.D.	For Annual+20	IS: 5182 (Part-22)
11.	Benzene (C8H6)	µg/m [*]	1.17	For 24 Hrs.=5	(S: 5182 (Part-11)
12	Arsenic (As)	ng/m²	N.D.	For Annual+06	IS: 5182 (Part-22)
14	Supering Asia)		1000		****End of Tool Danners

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

Format no ETS ALAB/TR-01 Issue No 04 at 01/06/2016 Rev No 03 at 01/06/2016

1. This test report shall not be used in any advertising media or as evidence in the court of 1 ass without prior written permission of the inhorntory, Notes-

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.





Acc. No. M21112841N

Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph. 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO: ETS/46/86-12/10/2017

DATE OF REPORT :11-10-2017

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, INIDA

Date of Sampling

: 08-10-2017

Analysis Start Date

09-10-2017

Analysis End Date

10-10-2017

Duration Of Sampling

: 06-10-2017

: 88-12/10

Sample ID No

Sampling Done By

ETS STAFF

Sampling Location

CHASNALA (AAQ-CZ4)

Sampling Method

Weather Condition

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr. · CIEAD (From Ground)

07-10-2017

*******	or continue	: CLEAR		Ambient Temperature	: 26,0 °C
S, Na.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m ^a	71.4	For 24 Hrs.=100	15: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	44.3	For 24 Hrs.=60	Gravimetric Method
3.	Bulphur Diaxide (SO2)	HB/m ²	10.0	For 24 Hrs.=80	IB: 5102 (Pent-Z)
4.	Carbon Monoxide (CO)	mg/m"	0.64	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5,	Ntrogen Diaxide (NO2)	µg/m²	16.4	For 24 Hrs.=80	IS: 5182 (Part-8)
1.6.	Lead (Pb)	µg/m ³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	hB/w _n	27.1	For 8 Hrs. + 100/ For 1 Hrs. = 180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs =400	Indophenal Blue Method
9,	Benzo (a) Pyrine (BaP)	ngim*	N.D.	Far Annual≈01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H8)	µg/m²	1,21	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m²	N.D.	For Annual≃06	IS: 5182 (Part-22)

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

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

1. This test report shall not be used in any advertising media or as evidence in the essert 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.

RVICES

 The results indicated only refer to the tested samples and listed applicable parameters. 4. Our liability is limited to invoice value only.

Note:



An Environmental Analytical Laboratory



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Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph. 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/88-11/10/2017

DATE OF REPORT :11-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customar

TASRA COAL MINING PROJECT

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

07-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

06-10-2017

Analysis Start Date

09-10-2017

Analysis End Date

10-10-2017

Duration Of Sampling

05-10-2017

88-11/10

Sample ID No

ETS STAFF

Sampling Done By

KANDRA (AAQ-CZ3)

Sampling Location

ETS/STP/AIR-01

Sampling Method Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

26.0 °C

For Enviro-Tech Services

AUTHORIZED MONATORINA Dy. Quality manager

Neather	Condition	: Ottons		Specification/Limit	
5, No.	Test Parameters	Unit	Result	(as Per CPCB)	Test Method
1000		100000	72.8	For 24 Hrs =100	(S: 5182 (Part-23)
1.	Particulate Matter (PM10)	µg/m²		For 24 Hrs. #60	Gravimetric Method
2	Particulate Matter (PM2.5)	µg/m°	42.2	CONTROL CONTROL	(5: 5182 (Part-2)
	Sulphur Dioxide (SO2)	pg/m	10.2	For 24 Hrs #80	
3.	- 17 M Control - 17 M	mg/m²	0.69	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
4.	Carbon Monoxide (CO)			For 24 Hrs.=80	IS 5182 (Part-6)
5.	Nitrogen Dioxide (NO2)	µg/m²	19.7	For 24 Hrs.=1.0	(S: 5182 (Part-22)
6.	Lead (Pb)	µg/m*	N.D.		IS 5182 (Part-9)
2224		ug/m²	27.7	For 8 Hrs =100/ For 1 Hrs =180	
7.	Ozone (O3)	µg/m²	NIL	Por 24 Hrs.=400	Indophenal Blue Metho
8.	Ammonia (NH3)		-	For Annual=01	18: 5182 (Part-12)
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.		(S: 5182 (Part-22)
430	Nickel (Ni)	ng/m"	N.D.	For Annual=20	
10.	7.77.77.77.77	µg/m²	1.24	For 24 Hrs =5	IS: 5182 (Part-11)
11.	Benzene (C6H6)	3,733	-	For Annual=06	IS: 5182 (Part-22)
12	Arsenic (As)	ng/m*	N.D.		"End of Test Report"

Page 1 of 1

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

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 inhoratory.

The samples received shall be destroyed after one mouth from the date of test report issued.

3. The results indicated only refer to the tested samples and listed applicable parameters.





Acc. No.- 931112941N

Environmental Monitoring, Testing and Services

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Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/88-14/10/2017

DATE OF REPORT :11-10-2017

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,

07-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

06-10-2017

Analysis Start Date

09-10-2017

Analysis End Date

10-10-2017

Duration Of Sampling

Sample ID No

05-10-2017

88-14/10

Sampling Done By

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr.

(From Ground)

CLEAR

		1 OCCUPIE		Ambient Temperature	26.0 °C
8, No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	hð/m,	66.8	For 24 Hrs.=100	IS: 5182 (Part-23)
2.	Particulate Matter (PM2.5)	µg/m²	36.7	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (BO2)	ugim²	7.3	For 24 Hrs.=80	18: 5182 (Pert-2)
4.	Carbon Monoxide (CO)	mg/m²	0.50	For 8 Hrs. =02 / For 1 Hrs. =04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	µg/m²	17.4	For 24 Hrs.=80	(S: 5182 (Part-5)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m²	15.4	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indophenol Blue Method
9	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual≈20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m³	1.20	For 24 Hrs. #5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m³	N.D.	For Annual=06	IS: 5182 (Part-22)

"End of Test Report"

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SMNA TOWY

Dy. Quality manager

Note:

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

I. 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 inhuratory. 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,



An Environmental Analytical Laboratory



Acc. No.- W21112041N

Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph. 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/88-13/10/2017

DATE OF REPORT 11-10-2017

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.

07-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 00-10-2017

Analysis Start Date

09-10-2017

Analysis End Date

10-10-2017

Duration Of Sampling

: 08-10-2017

88-13/10

Sample ID No

Sampling Done By

ETS STAFF

Sampling Location

AMLABAD (AAQ-BZ1)

Sampling Method Sampling Machine Placed At Height ETS/STP/AIR-01

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

26.0 C

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
	Particulate Matter (PM10)	µg/m ^{rl}	68.8	For 24 Hrs.=100	IS: 5182 (Part-23)
1.	POTOTO TOTO CONTRACTOR	µg/m²	39.9	For 24 Hrs.=60	Grevimetric Method
2	Particulate Matter (PM2.5)	ug/m ²	7.6	For 24 Hrs.+80	IS: 5162 (Part-2)
3.	Sulphur Dioxide (BO2)	The second second	-	For 8 Hrs.=02 / For 1 Hrs.=04	13: 5182 (Part-10)
4.	Carbon Monoxide (CO)	mg/m²	0.62	For 24 Hrs.=80	IS: 5182 (Part-6)
5.	Nitrogen Dioxide (NO2)	h6/w	13.1		IS: 5182 (Part-22)
6.	Lead (Pb)	ha/m,	N.D.	For 24 Hrs.=1.0	
7.	Ozone (O3)	µg/m ³	28.2	For 8 Hrs.=100/ For 1 Hrs.=180	IS. 5182 (Part-9)
8.	Ammonia (NH3)	µg/m*	NI.	For 24 Hrs.=400	Indophenal Blue Method
	Benzo (a) Pyrine (BaP)	ng/m²	ND	For Annual=01	IS: 5182 (Part-12)
9.		ng/m²	N.D.	For Annual*20	IS: 5182 (Part-22)
10.	Nickel (Ni)			For 24 Hrs.=5	IS: 5182 (Part-11)
11.	Benzene (C5H5)	µg/m²	0.69	For Annual=06	IS: 5162 (Part-22)
12.	Arsenic (As)	ng/m²	N.D.		"End of Test Report"

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

SERVICES

Format no ETS £AB/TR-01 Issue No 04 ot 01/06/2016 Rev No 03 ot 01/06/2016

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.

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email : etslab2012@gmail.com | Website : www.etslab.asia

Ph. 9811738063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/88-16/10/2017

DATE OF REPORT :11-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TABRA COAL MINING PROJECT

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

07-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 05-10-2017

Analysis Start Date

09-10-2017

Analysis End Date

10-10-2017

Duration Of Sampling

06-10-2017

Sample ID No

88-16/10

Sampling Done By

ETS STAFF

Sampling Location

JORAOIH (AAQ-BZ4)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

CLEAR

Ambient Temperature

26.0 °C

5. No.	Test Parameters	Unit	Result	Specification/Limit (as Per GPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m"	67.8	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	µg/m²	36.6	For 24 Hrs. =60	Gravimetric Method
3,	Sulphur Diaxide (GO2)	µg/m²	6.1	For 24 Hrs.×80	IS: \$182 (Pert-2)
4	Carbon Monoxide (CO)	mg/m ^a	0.37	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5	Nitrogen Dioxide (NO2)	µg/m²	12.9	For 24 Hrs. =80	IS: 5182 (Part-5)
6.	Lead (Pb)	µg/m ^{rl}	N.D.	For 24 Hrs.#1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m ²	18.3	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs =400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual≃20	IS: 5182 (Part-22)
11.	Benzene (C6H6)	µg/m ²	0.68	For 24 Hrs.=5	IS: 5182 (Part-11)
12	Arsenic (As)	ng/m²	N.D.	For Annual≃06	IS: 5182 (Part-22)

****End of Test Report****

SERVICES

Page 1 of 1

For Enviro-Tech Services

ED SIGNATEIBYNTAL Dy. Quality manager

ormat no ETS /LAB/TR-01 Issue No 04 at 01/06/2016. Rev No 03 at 01/06/2016.

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.

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.

Notet-



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An Unvironmental Analytical Laboratory



Acc. No. - M31112041N

Environmental Monitoring, Testing and Services

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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/88-15/10/2017

DATE OF REPORT :11-10-2017

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, INIDA

Date of Sampling

05-10-2017

Analysis Start Date

09-10-2017

Analysis End Date

10-10-2017

Duration Of Sampling

08-10-2017

07-10-2017

24.0 HOURS

Sample ID No.

88-15/10

Sampling Done By

: ETS STAFF

Sampling Location

JHARIA (AAQ-BZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

26.0 °C

Mantine	Condition	CLEAR		1	
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
a. see-				For 24 Hrs.=100	IS: 5182 (Part-23)
1.	Particulate Matter (PM10)	hð _i m,	89.5	For 24 Hrs.=60	Gravimetric Method
2.	Particulate Matter (PM2.5)	h8 _{/m}	33.4	The second secon	(8: \$162 (Part-2)
	Bulphur Diexide (8O2)	µg/m"	7.6	For 24 Hrs.=80	The second secon
3.		mg/m²	0.42	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
4.	Carbon Monoxide (CO)	pg/m²	17.4	For 24 Hrs.=80	IS: 5182 (Part-6)
5.	Nitrogen Dioxide (NO2)	The second second	-	For 24 Hrs.=1.0	15. 5182 (Part-22)
8.	Lead (Pt)	hg/w,	N.D.	For B Hrs =100/ For 1 Hrs.=180	IS: 5182 (Part-9)
7.	Ozone (O3)	hā/w,	19.5		Indophenal Blue Metho
- 300-	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	(5. 5162 (Part-12)
8.	101000000000000000000000000000000000000	ng/m³	N.D.	For Annual=01	200 mm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
10.	Nickel (Ni)			For 24 Hrs.=5	IS: 5182 (Part-11)
11.	Benzene (C6H6)	hā _l m,	0.70	For Annual=06	18: 5162 (Part-22)
12.	Arsenic (As)	ng/m²	N.D.	For Annual-00	"End of Test Report"

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORNIA Dy. Quality manager

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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 purameters.

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An Environmental Analytical Laboratory



Acc. No.- M21112941N

Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/88-02/10/2017

DATE OF REPORT: 11-10-2017

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,

04-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 03-10-2017

Analysis Start Date

08-10-2017

Analysis End Date

07-10-2017

Duration Of Sampling

03-10-2017

Sample ID No

88-02/10

Sampling Done By

ETS STAFF

Sampling Location

TASRA (AAQ-CZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

: 3.5 mtr. CLEAR (From Ground) Ambient Temperature

28.0

444	at a comment	7		summering compressions	20.0
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	77.7	For 24 Hrs.=100	iS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	hð/m,	45.1	For 24 Hrs.=50	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m²	11.7	For 24 Hrs.=80	IS: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.62	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
5.	Nitrogen Dioxide (NO2)	pg/m²	21.8	For 24 Hrs.=80	15: 5182 (Part-5)
6.	Lead (Pti)	hō/m²	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	µg/m ³	27.2	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8.	Ammonia (NH3)	ug/m*	NIL	For 24 Hrs.=400	Indephenal Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m ³	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nicket (Ni)	ng/m ^u	N.D	For Annual=20	IS: 5182 (Part-22)
11,	Benzene (C6H6)	hb/w _n	1.01	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m²	N.D.	For Annual=06	IS: 5182 (Part-22)
			1511-5-5		The state of the s

****End of Test Report****

SERVICES

Page 1 of 1

For Enviro-Tech Services

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

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TEST REPORT

TEST REPORT NO : ETS/46/88-01/10/2017

DATE OF REPORT :11-10-2017

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,

04-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

03-10-2017

Analysis Start Date

06-10-2017

Analysis End Date

07-10-2017

Duration Of Sampling

03-10-2017 To

24.0 HOURS

Sample ID No

88-01/10

Sampling Done By

ETS STAFF

Sampling Location

ROHRABANOH (AAQ-CZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(From Ground)

CLEAR

Ambient Temperature

28.0

Condition	CLEAR		Ambient remperature	88.00
Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
	unim ³	70.0	For 24 Hrs. = 100	IS: 5182 (Part-23)
Particulate Matter (PM10)		2000	Fine DA Lifes WRD	Gravimetric Method
Pareculate Matter (PMZ.5)	hōim,	51.4		18: 5152 (Part-2)
	µg/m²	8.7	400 (000) (000) (000)	
	mo/m [*]	0.55	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
Carbon Monoxide (CC)	100 S TO 100 S	74.000	For 24 Hrs #80	IS: 5182 (Part-6)
Nitrogen Dioxide (NO2)	halm	17.4		(5: 5182 (Part-22)
Least (PN)	µg/m"	N.D.		
The state of the s		28.1	For 8 Hrs =180/ For 1 Hrs =180	is: 5182 (Part-9)
Ozone (O3)	74.00		Epr 24 Hrs =400	Indophenol Blue Metho
Ammonia (NH3)	hārm	NIL		15: 5182 (Part-12)
Benzo (a) Pyrine (BaP)	ng/m	N.D.		
	no/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
3302-31-303			For 24 Hrs =5	15: 5182 (Part-11)
Benzene (C6H8)	The second second	1,19	77 / M / M / M / M / M / M / M / M / M /	(S: 5182 (Part-22)
Arcenic (As)	ng/m²	N.D.		****End of Test Report***
	Test Parameters Particulate Matter (PM10) Particulate Matter (PM2.5) Bulphur Dioxide (BO2) Carbon Monoxide (CO) Nitrogen Dioxide (NO2) Lead (Pb) Ozone (O3)	Test Parameters Unit Particulate Matter (PM10) µg/m² Particulate Matter (PM2.5) µg/m² Sutphur Dioxide (SO2) µg/m² Carbon Monoxide (CO) mg/m² Nitrogen Dioxide (NO2) µg/m² Lead (Pb) µg/m² Ozone (O3) µg/m² Ammonia (NH3) µg/m² Benze (a) Pyrine (BaP) ng/m² Nickel (N0) µg/m²	Test Parameters	Test Parameters

****End of Test Report****

ERVICES

Page 1 of 1

For Enviro-Tech Services

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

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Ph.: 9811736063, 9911516076

24 0 HOURS

TEST REPORT

TEST REPORT NO: ETS/46/88-04/10/2017

DATE OF REPORT: 11-10-2017

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.

04-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 03-10-2017

Analysis Start Date

06-10-2017

Analysis End Date

07-10-2017

Duration Of Sampling

03-10-2017

88-04/10

Sampling Done By

Sample ID No

Sampling Location

ETS STAFF

Sampling Method

: CHASNALA (AAQ-CZ4) : ETS/STP/AIR-01

Sampling Machine Placed At Height

(From Ground)

2 3.5 mtr.

Weather Condition

: CLEAR

Ambient Temperature

				- 20.U C
Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
Particulate Matter (PM10)	µg/m²	72.1	For 24 Hrs.=100	iS; 5182 (Part-23)
Particulate Matter (PM2.5)	µg/m³	44.7	For 24 Hrs.=60	Gravimetric Method
Sulphur Dioxide (SO2)	pg/m²	10.1	For 24 Hrs.=80	IS: 5162 (Part-2)
Carbon Monoxide (CO)	mg/m ³	0.65	For 8 Hrs. #02 / For 1 Hrs. #04	IS: 5182 (Part-10)
Nitrogen Dioxide (NO2)	µg/m ³	16.6	For 24 Hrs. =80	IS: 5182 (Part-6)
Lead (Pb)	µg/m³	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
Ozone (O3)	µg/m²	27.4	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
Ammonia (NH3)	µg/m"	NIL	For 24 Hrs.=400	Indophenal Blue Metho
Benzo (a) Pyrine (BaP)	ng/m²	N.D.	For Annual+01	IS 5182 (Part-12)
Nickel (Ni)	ng/m"	N.D.	For Annual=20	IS: 5182 (Part-22)
Benzene (C6H6)	µg/m"		The state of the s	IS: 5182 (Part-11)
Arsenic (As)	ng/m³	N.D.	For Annual=05	IS: 5182 (Part-22)
	Particulate Matter (PM10) Particulate Matter (PM2 S) Sulphur Dioxide (GO2) Carbon Monoxide (CO) Nitrogen Dioxide (NO2) Lead (Pb) Ozone (O3) Ammonia (NH3) Benzo (a) Pyrine (BaP) Nickel (Ni) Benzene (C6H6)	Particulate Matter (PM10) µg/m² Particulate Matter (PM2.5) µg/m² Gulphur Dioxide (GO2) µg/m² Carbon Monoxide (CO) mg/m² Nitrogen Dioxide (NO2) µg/m² Lead (Pb) µg/m² Ozone (O3) µg/m² Ammonia (NH3) µg/m² Benzo (a) Pyrine (BaP) ng/m² Nickel (Ni) ng/m² Benzene (C6H6) µg/m²	Particulate Matter (PM10) μg/m² 72.1 Particulate Matter (PM2 S) μg/m² 44.7 Gulphur Dioside (GO2) μg/m² 10.1 Carbon Monoxide (CO) mg/m² 0.65 Nitrogen Dioxide (NO2) μg/m² 16.6 Lead (Pb) μg/m² N.D. Ozone (O3) μg/m² N.D. Ammonia (NH3) μg/m² N.D. Benzo (a) Pyrine (BaP) ng/m² N.D. Nickel (Ni) ng/m² N.D. Benzene (C6H6) μg/m² 1.23	Particulate Matter (PM10) μg/m² 72.1 For 24 Hrs.=100 Particulate Matter (PM25) μg/m² 44.7 For 24 Hrs.=60 Sulphur Dioxide (SO2) μg/m² 10.1 For 24 Hrs.=80 Carbon Monoxide (CO) mg/m² 0.65 For 8 Hrs.=02 / For 1 Hrs.=04 Nitrogen Dioxide (NO2) μg/m² 16.6 For 24 Hrs.=80 Lead (Pb) μg/m² N.D. For 24 Hrs.=1.0 Ozone (O3) μg/m² 27.4 For 8 Hrs.=100 For 1 Hrs.=180 Ammonia (NH3) μg/m² N.D. For 24 Hrs.=400 Benzo (a) Pyrine (BaP) ng/m² N.D. For Annual=01 Nickel (Ni) ng/m² N.D. For Annual=01 Nickel (Ni) ng/m² N.D. For Annual=20 Benzene (C6H6) μg/m² 1.23 For 24 Hrs.=5

'End of Test Report'

ERVICES

Page 1 of 1

For Enviro-Tech Services

Format no ETS /LAS/TR-01 Issue No 04 dt 01/05/2015 Rev No 03 dt 01/05/2016

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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.



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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph. 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ET\$/46/88-03/10/2017

DATE OF REPORT :11-10-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

MIS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 03-10-2017

Analysis Start Date

06-10-2017

Analysis End Date

07-10-2017

Duration Of Sampling

03-10-2017

04-10-2017 24.0 HOURS

Sample ID No

88-03/10

Sampling Done By

: ETS STAFF

Sampling Location

KANDRA (AAQ-CZ3)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

: 3.5 mtr.

(Frem Ground)

Weather Condition

: CLEAR

Ambient Temperature

: 28.0 °C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
200000		µg/m²	73.5	For 24 Hrs.=100	IS: 5182 (Part-23)
1.	Particulate Matter (PM10)		-	For 24 Hrs.#60	Gravimetric Method
2	Particulate Matter (PM2.5)	hB/m,	42.6		15: 5182 (Part-2)
3.	Sulphur Dioxide (SO2)	hō(m,	10.3	For 24 Hrs.=80	
		mg/m²	0.70	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
4	Carbon Monoxide (CO)		-	For 24 Hrs.=80	IS: 5182 (Part-6)
5.	Narogen Diaxide (NG2)	ha/w,	19.8		IS: 5182 (Part-22)
6.	Lead (Pb)	µg/m"	N.D.	For 24 Hrs.=1.0	
00710	1170174038.114X	µg/m²	27.9	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
7.	Ozone (O3)	µg/m ³	NIL	For 24 His.=400	Indophenol Blue Method
8.	Ammonia (NH3)			For Annual=01	IS: 5182 (Part-12)
9.	Benzo (a) Pyrine (BaP)	ng/m²	N.D.		IS: 5182 (Part-22)
+0	Nickel (Ni)	ng/m²	N.D.	For Annual=20	
10.		pg/m ^d	1,25	For 24 Hrs.=5	18: 5182 (Part-11)
11	Benzene (C6H6)		-	For Annual=06	18: 5182 (Part-22)
12	Arsenic (As)	ng/m²	N.D.		***End of Test Report****

Page 1 of 1

For Enviro-Tech Services

SERVICES

Format to ETS AAB/TR-01 Issue No 04 at 81/06/2016 Rev No 03 dt 91/06/2016 1. This test report shall not be used in any advertising media or us evidence in the court of Law without prior written permission of the inhoratory.

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.



An Empronmental Analytical Laboratory



Acc. No.- M21112041N

Environmental Monitoring, Testing and Services

(An ISO 9001:2015, 14001:2015 and OHSAS 18001:2007 Certified Company)

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

24 0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/88-06/10/2017.

DATE OF REPORT :11-10-2017

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,

04-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 03-10-2017

Analysis Start Date

08-10-2017

Analysis End Date

07-10-2017

Duration Of Sampling

03-10-2017

Sample ID No

Sampling Done By

88-06/10

ETS STAFF

Sampling Location

BAGHMARA (AAQ-BZ2)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

Weather Condition

: CLEAR

Ambient Temperature

28.0 10

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
1.	Particulate Matter (PM10)	µg/m³	67.5	For 24 Hrs.=100	IS: 5182 (Part-23)
2	Particulate Matter (PM2.5)	lag/m ^a	37.1	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (802)	µg/m²	T.4	For 24 Hrs.=80	(6: 5182 (Part-2)
4.	Carbon Monoxide (CO)	mg/m²	0.51	For 8 Hrs. =02 / For 1 Hrs. =04	18: 5182 (Part-10)
5.	Nitrogen Diaxide (NO2)	µg/m²	17.6	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m²	N.D.	For 24 Hrs = 1.0	18: 5182 (Part-22)
7.	Ozone (O3)	µg/m³	15.5	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5182 (Part-9)
8	Ammonia (NH3)	µg/m²	NIL	For 24 Hrs.=400	Indephenal Blue Method
9.	Benzo (a) Pynne (BaP)	ng/m ^d	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m²	N.D.	For Annual=20	IS: 5182 (Part-22)
11.	Benzene (C6H5)	µg/m²	1.22	For 24 Hrs.=5	IS: 5182 (Part-11)
12.	Arsenic (As)	ng/m³	N.D.	For Annual=05	IS: 5182 (Part-22)

****End of Test Report

Page 1 of 1

For Enviro-Tech Services

Format no ETS /LAB/TR-01 Issue No 04 ot 01/05/2016 Rev No 03 ot 01/05/2016

I. 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 inhoratory.

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,

H SERVICES



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Environmental Monitoring, Testing and Services

(An ISO 9001:2015, 14001:2015 and OHSAS 18001:2007 Certified Company)

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/88-05/10/2017

DATE OF REPORT : 11-10-2017

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, INIDA

Date of Sampling

: 93-10-2017

Analysis Start Date

06-10-2017

Analysis End Date

: 07-10-2017

Duration Of Sampling

03-10-2017

04-10-2017

24.6 HOURS

Sample ID No.

88-05/10

Sampling Done By

: ETS STAFF

Sampling Location

AMLABAD (AAQ-BZ1)

Sampling Method

ETS/STP/AIR-01

Sampling Machine Placed At Height

3.5 mtr.

(From Ground)

CLEAR

Ambient Temperature

28.0

Mantha	Condition	: CLEAR		Ampient Temperature	
S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
D. 1901			100	For 24 Hrs.=100	IS: 5182 (Part-23)
1.	Particulate Matter (PM10)	hð/m,	69.5	For 24 Hrs.=60	Gravimetric Method
2	Particulate Matter (PM2.5)	hB/w,	40.3		IS. 5182 (Part-2)
	Bulphur Dioxide (502)	µg/m²	7.6	For 24 Hrs.=60	
3.		mg/m ²	0.63	For 8 Hrs.=02 / For 1 Hrs.=04	IS: 5182 (Part-10)
4.	Carbon Manoxide (CO)	-	0.500	For 24 Hrs.=80	IS: 5182 (Part-5)
5.	Nitrogen Dioxide (NO2)	hā/m,	13.2	For 24 Hrs = 1.0	IS: 5182 (Part-22)
6.	Lead (Pb)	hā/w,	N.D.		IS: 5182 (Part-9)
-	200000000000000000000000000000000000000	µg/m³	28.5	For 8 Hrs = 100/ For 1 Hrs = 180	
7.	Ozone (O3)	µg/m³	MIL	For 24 Hrs.=400	Indophenol Blue Metho
8.	Ammonia (NH3)			For Annual±01	is: 5182 (Part-12)
9.	Benzo (a) Pyrinc (BaP)	ng/m²	N.D.	For Annual=20	IS 5182 (Part-22)
10.	Nickel (Ni)	ng/m²	ND		IS: 5182 (Part-11)
0.00	Benzene (C6H6)	µg/m³	0.70	For 24 Hrs.=5	A SANGER OF THE PROPERTY.
11.		ng/m²	N.D.	For Annual=06	IS: 5182 (Part-22)
12.	Arsenic (As)	-tightir	N.D.		***End of Test Report***

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNAT FROMITE

Dy. Quality manager

Formatino ET5 /LAB/TR-01: Issue No 04 at 01/08/2016. Rev No 03 at 01/08/2016.

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.

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.

BERVICES



An Engironmental Analytical Laboratory



Acc. No.- M21112041N

Environmental Monitoring, Testing and Services

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Ph. 9811738063, 9911516076

24.0 HOURS

TEST REPORT

TEST REPORT NO : ETS/46/88-08/10/2017

DATE OF REPORT:11-10-2017

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,

04-10-2017

DHANBAD, JHARKHAND, INIDA

Date of Sampling

: 03-10-2017

Analysis Start Date

06-10-2017

Analysis End Date

07-10-2017

Duration Of Sampling

03-10-2017

Sample ID No

Sampling Done By

88-08/10

Sampling Location

ETS STAFF

Sampling Method

JORADIH (AAQ-824)

ETS/STP/AIR-01

Sampling Machine Placed At Height Weather Condition

3.5 mtr. CLEAR (From Ground) Ambient Temperature

- 28 D 'C

S. No.	Test Parameters	Unit	Result	Specification/Limit (as Per GPGB)	Test Method
1.	Particulate Matter (PM10)	µg/m²	68.5	For 24 Hrs.=100	IS 5182 (Part-23)
2.	Persculate Matter (PM2.5)	µg/m*	28.1	For 24 Hrs.=60	Gravimetric Method
3.	Sulphur Dioxide (SO2)	µg/m²	6.2	For 24 Hrs.=80	10: 5102 (Part-2)
4.	Carbon Monoxide (CO)	mg/m [*]	0.38	For 8 Hrs.=02 / For 1 Hrs.=04	18: 5182 (Part-10)
5.	Nitrogan Dioxide (NO2)	µg/m²	13,0	For 24 Hrs.=80	IS: 5182 (Part-6)
6.	Lead (Pb)	µg/m"	N.D.	For 24 Hrs.=1.0	IS: 5182 (Part-22)
7.	Ozone (O3)	hā/m,	18.5	For 8 Hrs.=100/ For 1 Hrs.=180	IS: 5162 (Part-9)
B.	Ammonia (NH3)	hō _l m,	NIL	Far 24 Hrs =400	Indophenol Blue Method
9.	Benzo (a) Pyrine (BaP)	ng/m ^a	N.D.	For Annual=01	IS: 5182 (Part-12)
10.	Nickel (Ni)	ng/m"	N.D.	For Annual=20	I5: 5162 (Part-22)
11.	Benzene (C6H6)	hū/m,	0.69	For 24 Hrs.=5	IS: 5182 (Part-11)
12	Arsenic (As)	ng/m²	N.D.	For Annual=06	IS: 5182 (Pari-22)

""End of Test Report"

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATURATE Oy. Quality manager

Format no ETS /LAB/TR-01 Issue No 04 dt 01/06/2015 Rev No 03 dt 01/06/2016

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

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 fisted applicable parameters.

SERVICES

4. Our liability is limited to invoice value only.

Notes-



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

email : etslab2012@gmail.com | Website : www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/46/88-07/10/2017

DATE OF REPORT :11-10-2017

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, INIDA

Date of Sampling

03-10-2017

Analysis Start Date

05-10-2017

Analysis End Date

: 07-10-2017

Duration Of Bampling

03-10-2017

24 D HOURS 04-10-2017

Sample ID No

88-07/10

Sampling Done By

ETS STAFF

Sampling Location

JHARIA (AAQ-823)

Sampling Method

ETS/STP/AIR-01

(From Ground)

Sampling Machine Placed At Height

3.5 mir. CLEAR

Ambient Temperature

28 0 °C

	Condition	: CLEAR		Villogett Lande	
	Test Parameters	Unit	Result	Specification/Limit (as Per CPCB)	Test Method
s. No.		-		For 24 Hrs.=100	(5: 5182 (Part-23)
1.	Particulate Matter (PM10)	hðim,	70.2	For 24 Hrs.=60	Gravimetric Method
2	Parsoulate Matter (PM2.5)	µg/m²	33.7	775000000000000000000000000000000000000	IS: 5182 (Part-2)
	Sulphur Dioxide (SO2)	µg/m²	7.7	For 24 Hrs. +80	(S: 5182 (Part-10)
3.		mg/m²	0.42	For 8 Hrs.=02 / For 1 Hrs.=04	
4.	Carbon Monoxide (CO)	µg/m²	17.6	For 24 Hrs.=80	18: 5182 (Part-6)
5.	Nitrogen Diaxide (NO2)	The state of the s		For 24 Hrs.=1.0	IS. 5182 (Part-22)
6.	Lead (Pb)	hā _{jui,}	N.D.	For 8 Hrs.=100/ For 1 Hrs =180	IS: 5182 (Part-9)
7.	Ozone (O3)	hā _t m,	19.7		Indophenol Blue Metho
. 377	145 TOWN 1000	µg/m²	NIL	For 24 Hrs.=400	IS: 5182 (Part-12)
8.	Ammonia (NH3)	ng/m²	N.D.	For Annual=01	
9.	Benzo (a) Pyrine (BaP)	The second second	-	For Armuel=20	15, 5182 (Part-22)
10.	Nickel (NI)	ng/m²	N.D.	For 24 Hrs.*5	18: 5182 (Part-11)
11.	Banzene (C8H6)	m@lm.	0.70		15. 5182 (Part-22)
12	Arsenic (Atl)	ng/m²	N.D.	For Annual=05	"End of Test Report"

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNAHURVA Dy. Quality manager

Formut no ETS (LAB/TR-01 | Issue No 04 dt 01/06/2016 Rev No 03 dt 01/05/2016

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An Environmental Analytical Laboratory



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Environmental Monitoring, Testing and Services

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

NOISE MONITORING SUMMARY REPORT MONTH OF MARCH 2018

Name And Address of Customer

: M/s, TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

		TASRA AMBIE	NT (RES	SIDENTIA	4				GOSALA AMBI	ENT (R	ESIDENT	IAL)		
SI. No	Date	Descriptio n noise level db(A)	Re	sult	(CPC	nderds B/Factor s Act.)	SI. No	Date	Description noise level db(A)	R	esult	(CPCB	/Factor Act.)	
			Day	Night	Day	Night				Day	Night	Day	Night	
1	08-03-	Maximum	53.2	44.1			1	08-03-	Maximum	52.5	45.4			
•	18	Minimum	47.5	39.4	55	50	1		Minimum	48.7	43.3	55	50	
	200	Leq db(A)	51.5	42.6				777	Leg db[A]	51.7	45.1			
	29-03-	Maximum	53.5	42.8					Maximum	54.6	44.2			
2	18	Minimum	43.1	36.5	55	50	2	29-03-	Minimum	48.9	38.3	55	50	
		(eq db(A)	49.4 40.3					Leg db(A)	52.3	42.5				
		CANDRA AMBI	ENT (RE	SIDENTIA	L)	0.509	000	RO	HRABAND AM	BIENT (RESIDEN	TIAL)	1000	
SI. No	Date	Descriptio n noise level db(A)	Re	sult	Standards (CPCB/Factor ies Act.)		SI. No	No Date noise lev		Re	sult	(CPCB)	Standards (CPCB/Factor) es Act.)	
			Day	Night	Day	Night			51039071115	Day	Night	Day	Night	
. [Maximum	54.3	44.3				08-03-	Maximum	53.5	43	100	1	
1	08-03-	Minimum	47.6	41.4	55	50	1	18	Minimum	50.3	41.9	55	50	
- 1	10	Leg db(A)	52.7	43						Leg db(A)	52.3	43.5	1862	120
	***	Maximum	51.4	41.6	-				Maximum	50.6	40.8			
	29-03- 18	Minimum	44.5	36.7	55	50			Minimum	45.1	38.5	55	50	
	- 100	Leq db(A)	48.5	40.3					Leq db(A)	50.9	40.7	5572.51	- 22	
	BA	GHMARA AME	HENT (R	ESIDENT	IAL)	10000	Sec.	Bi	ISMA HIDULO	ENT (R	ESIDENTI	AL)		
SI. No	Date	Descriptio n noise level db(A)	Res	ult	(CPCB	/Factor Act.)	SI. No	Date	Description noise level db(A)	Re	sult	Stand (CPCB/ es A		
			Day	Night	Day	Night				Day	Night	Day	Night	
1	08-03-	Maximum	54	42.4			1	08-03-	Maximum	52.4	45.6			
•	18	Minimum	48.3	40.1	55	50		18	Minimum	45.8	42.5	55	50	
_		Leg db(A)	52.3	42.8					Leg db(A)	51.4	44.7			
	29-03-	Maximum	53.8	44.2				29-03-	Maximum	51.2	42.5			
2	18	Minimum	47.5	37.8	55	50	2	18	Minimum	49.7	39.2	55	50	
	10	Leq db(A)	51.8	42.1		- X//- 11	200		10	Leg db(A)	51.0	41.9	7.0	

Page 1 of 1

SERVICES

For Enviro-Tech Services

Dy. Quality manager

- 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.
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email: etslab2012@gmail.com | Website: www.etslab.asla

I Ph.: 9811736063, 9911516076

NOISE MONITORING SUMMARY REPORT MONTH OF MARCH 2018

Name And Address of Customer

: M/s. TASRA COAL MINING PROJECT

MIS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

DHANBAD, JHARKHAND, INIDA

	-	EXCAVATION	AREA(W	ORK ZO	-	ALC: N		10 5	HAUL ROA	D (WO	RK ZONE		7 - 3
SI. No	Date	n noise level db(A)		esult	(CPCE	Act.)	SI. No	Dinto	Description noise level db(A)	1	esult	Stan (CPCB	dards /Facto Act.)
	-		Day	Night	Day	Night			1	Day	Night	-	Migh
1	07-03-	Maximum	67.4	55.3			1	07-03-	Maximum	69.1		-	1.77
	18	Minimum	59	50.6	75/90	70	1	18	Minimum	60.2		75/90	70
_	-	Leg db(A)	63.3	53.1	-				Leg db(A)	65.8	57	1	1
	28-03-	Maximum	65.5	54.7					Maximum	68.6	-		
2	18	Minimum	61.4	50.9	75/90	70	70 2 2	28-03-	Minimum	62.3	50.5	75/90	70
	100	Leg db(A)	64.2	53.5			100	10	Leg db(A)	66.6	55.7	1	1.75
	- Description	WASTE DUM	AP,{WO	K ZONE	The state of the s	1748-05	1	STATE OF	TOP SOIL DU	MP(WO	RK ZONE	3	1993
SI. No	Date	Descriptio n noise level db(A)	Re	sult	Standards (CPCB/Factor les Act.)		SI. No	Date	Description naise level db(A)		sult	Stand (CPCB/ ies A	Factor
			Day	Night	Day	Night				Day	Night	Day	Night
1	07-03-	Maximum	65.9	53.4	75/90		1	2000	Maximum	64.2	54.7	75/90	augn
0	18	Minimum	54.3	50.6		70	70	07-03-	Minimum	58.5	50		70
		Leg db(A)	61.2	52.9	12			10	Leg db(A)	62.5	53.1	10,00	
	28-03-	Maximum	65.3	53.6			2		Maximum	68.5	55.1		
2	18	Minimum	59.9	49.3	75/90	70		28-03-	Minimum	56.2	49.7	75/90	70
	2500	Leq db(A)	63.7	52.6	1000000	000		18	Leg db(A)	63.3	52.8	73730	
	MEET	WORK SHOP	WORK	ZONE)		15	100	OFFCIE AREA (WORK ZON				1000	in the
SI. No	Date	n noise level db(A)	Res	ult	Stand (CPCB/ les A	Factor	SI. No	Date	Description noise level db(A)		sult	Standa (CPCB/F	actor
1			Day	Night	Day	Night				Day	Night	Day	Night
1	07-03-	Maximum	67.8	57.3				07-03-	Maximum	68.1	58	-	74.00
	18	Minimum	61.2	50.6	75/90	70	1	18	Minimum	62.7	52.3	75/90	70
-		Leq db(A)	65.8	54.1				- 20	Leg db(A)	65.8	55.3	33525	
	28-03-	Maximum	68.2	56.3			1	30.03	Maximum	68.6	58		
2	18	Minimum	63.5	50.8	75/90	70	2	28-03-	Minimum	63.1	49.7	75/90	70
		Leq db(A)	66	54.7					Leg db(A)	67.9	54.1		- NO.

Page 1 of 1

RVICES

For Enviro Tech Services

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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Acc. No. M31112041N

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

NOISE MONITORING SUMMARY REPORT MONTH OF FEB. 2018

Name And Address of Customer

: M's, TASRA COAL MINING PROJECT

M'S, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

DHANBAD, JHARKHAND, INIDA

	-	TASRA AMBIE		SIDENT	IAL)	and the same	WAS.		GOSALA AMB	ENT (RE	SIDENT	IALL	D1111
SL No	Date	n noise level db(A)	R	esult	(CPC	ndards B/Factori Act.)	SI. No	Date	Descriptio n noise level db(A)	n noise Result		Standards (CPCB/Factori es Act.)	
_	-	-	Day	Night	Day	Night				Day	Night	770000	Night
1	07-02-	Maximum	54.2	46.1				07.00	Maximum	53.2	46.4	1	1
1	18	Minimum	48.2	40.1	55	50	1	07-02-	Minimum	49.7	43.3	55	50
	-	Leq db(A)	52.2	43.6		1		10	Leq db(A)	51.7	45.1	7	1 3
	22-02-	Maximum	52.9	44.8		1			Maximum	53.6	46.2	1	
2	18	Minimum	45.6	39.8	55	50	2	22-02-	Minimum	46.9	43.1	55	50
	100	Leq dh(A)	51	42.3				18	Leg db(A)	52	44.9	1	30
		ANDRA AMBI	ENT (R	ESIDENT	TAL)	320		RC	HRABAND AM			TIALL	the same
SI. No	Date	Descriptio n noise level db(A)	Re	sult	Standards (CPCB/Factori es Act.)		SI. No	Date	Descriptio n noise level db(A)	3110.293	sult	Stan (CPCB	dards /Factori Act.)
			Day	Night	Day	Night.				Day	Night	Day	Night
1	07-02-	Maximum	54.3	44.3					Maximum	54.9	45	- conj	1
٥,	18	Minimum	47.6	41.4	55	50	1	07-02-	Minimum	51.3	42.9	55	50
	1,500	Log db(A)	52.7	43				10	teq db(A)	53.3	44.2	-	
	22-02-	Maximum	53	43.6		55 50		220000	Maximum	53.6	43.8		
2	18	Minimum	46.5	40.7	55		2	22-02- 18	Minimum	47.1	41.7	55	50
	-	Log db(A)	51.5	42.3					Leg db(A)	52.1	42.9		
	BAG	HMARA AMB	IENT (R	ESIDEN	TIAL)	POTES		BHOJUDIH AMBIENT (RESIDENTIAL)					
SI. Vo	Date	n noise level db(A)	Res	ult	(CPCB/	fards Factori (ct.)	SI. No	Date	Descriptio n noise level db(A)	Resi	0/4	Stand (CPCB/	dards Factori
-			Day	Night	Day	Night				Day	Night	Day	Night
1	07-02-	Maximum	55.5	47.4		To the same	1, 1	07.02	Maximum	53.4	45.6		THE R. P. LEWIS CO., LANSING
- 1	18	Minimum	46.3	42.1	55	50	1	07-02-	Minimum	47.8	42.5	55	50
-	322	Leq db(A)	53.5	44.8				10	Log db(A)	52.4	44.7	200	27
	22-02-	Maximum	54.2	46.1					Maximum	52.2	44.3		
2	18	Minimum	46.2	41.8	55	50	2	22-02-	Minimum	48.7	40.9	55	50
		Leq db(A)	52.2	43.6	HESS.	1101250		18	teg db(A)	51.2	43.5		- 66.00

****End of Test Report****

Page 1 of 1



For Enviro-Tech Services Md. Humrai 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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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

NOISE MONITORING SUMMARY REPORT

MONTH OF FEB. 2018

Name And Address of Customer

: M/s, TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

	1	EXCAVATION A	REA(W	ORK ZO	NE)	200	- U	Fig. 7	HAUL ROAT	(WORK	ZONE	M2	
SI. No	Date	Descriptio n noise level db(A)	Re	sult	(CPCB)	Standards (CPCB/Factori es Act.)		Date	Description noise level db(A)	Result		Standards (CPCB/Facto es Act.)	
			Day	Night	Day	Night				Day	Night	Day	Night
1	07-02-	Maximum	66.4	57.4			1	07-02-	Maximum	68.3	59.9		
	18	Minimum	60	53.6	75/90	70	1	18	Minimum	61.2	54.2	75/90	70
		Leq db(A)	64.5	55.8					Leq db(A)	67	58.8		
		Maximum	65.1	56.7					Maximum	67.6	59.7		
2	22-02-	Minimum	60.8	52.9	75/90	70	2	22-02-	Minimum	60.6	51.8	75/90	70
	10	Leg db(A)	63.2	55.1	-1,000 (10.5)	1975502		10	Leq db(A) 66.4 58.6				10000
12.5		WASTE DUM	P,[WOF	K ZONE	1	100	666	2420	TOP SOIL DU	MP(WOR	K ZONE	h/10/30	
SI. No	Date	Descriptio n noise level db(A)	Re	sult	Standards (CPCB/Factori es Act.)		SI. No	Date	Description - noise level db(A)	Res	wit	(CPCB/ es A	Factori
			Day	Might	Day	Night				Day	Night	Day	Night
	07-02-	Maximum	63.9	55.4			1.	07-02-	Maximum	65.2	54.7		
1	18	Minimum	58.3	49.6	75/90	70	1	18	Minimum	58	50	75/90	70
		Leg db(A)	63.2	53.9					Leg db(A)	64	53.1		
		Maximum	62.3	54.6			2	22-02- 18	Maximum	64.7	54.5		70
2	22-02-	Minimum	56.9	47.3	75/90	70			Minimum	57.5	46.7	75/90	
34	18	Leg db(A)	61.7	53	1000				Leg db(A)	63.5	52.9		
U	HOLE	WORK SHOP	WOR	(ZONE)	Name of the least	91219		OFFCIE AREA (WORK ZONE)					
SI. No	Date	Descriptio n noise level db(A)	Re	sult	Stand (CPCB/ es A	Factori	SI. No	Date	Description noise level db(A)	Res	ult	Stand (CPCB/i es A	Factori
			Day	Might	Day	Night				Day	Night	Day	Night
	07-02-	Maximum	69.8	59.9	Section of the second			07-02-	Maximum	67.3	57		32.
1	18	Minimum.	65.2	55.9	75/90	70	1	18	Minimum	61.7	54.3	75/90	70
		Leq db(A)	67.8	58.7				***	Leq db(A)	63.5	55.3		
	22.02	Maximum	68.8	57.2	-			22.02	Maximum	65,6	55		
2	22-02-	Minimum	64.2	51.8	75/90	70	2	22-02- 18	Minimum	60.1	48.7	75/90	70
	10	Leg db(A)	66.8	56.1				10	Leg db(A)	61.9	53.4		

""End of Test Report""

Page 1 of 1



For Environmental Services

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 mouth from the date of test report issued.
- The résults indicated only refer to the tested samples and listed applicable parameters.
- 4. Our liability is limited to involce value only.

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-01b/12/2017

DATE OF REPORT .12-12-2017

NOISE MONITORING REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

: 04-12-2017

Monitoring Start Date

: 04-12-2017

Monitoring End Date

: 05-12-2017

Monitoring Dons By

: ETS STAFF

Monitoring Duration

: 24.0 HOURS

Place Of Monitoring

: TASRA (AAQ-CZ2)

Category Of Area

: INDUSTRIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

5. No.	Description Noise Level dB(A)	Res	sult	Ambient Noise Standards/Specification (CPCB/ Factories Act)		
		Day	Night	Day	Night	
1.	Average	85.0	57.1			
2	Maximum	68.9	6.09			
3,	Minimum	61.8	54.2			
4	Leq dB (A)	67.6	59.4	75/90	70	

Remark: Day time is reckoned in between 05.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Page 1 of 1

CH SERVICES

For Enviro-Tech Services

ED SIGNATORY Md. Humraj

Format no ETS /LAB/TR-02 | Insue No 04 dt 01/06/2016 | Rev No 03 dt 01/06/2016

Dy. Quality manager

I. 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 based.

3. The results indicated only refer to the tested samples and listed applicable parameters.

4. Our liability is limited to fuvoice value only.

Notes-



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TEST REPORT

TEST REPORT NO : ETS/90-01a/12/2017

DATE OF REPORT :12-12-2017

NOISE MONITORING REPORT

Name And Address of Customer

TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

04-12-2017

Monitoring Start Date

04-12-2017

Monitoring End Date

05-12-2017

Monitoring Done By

ETS STAFF

Monitoring Duration

24.0 HOURS

Place Of Monitoring

ROHRABANDH (AAQ-CZ1)

Category Of Area

INDUSTRIAL AREA

Sampling Method

ETS/LAB/NOISE-01

dB(A)	reuit .	Ambient Noise Standards/Specification (CPC8/ Factories Act)		
Day	Night	Day	Night	
63.2	54.7	7727 80	STATE OF	
68.4	57.4		DECEMBER S	
81.9	53.6			
84.5	55.8	75/90	70	
	B1.9	Day Night 63.2 54.7 68.4 57.4 61.9 53.6	B(A) Result (CPCB/ Fact Day Night Day 63.2 54.7 68.4 57.4 61.9 53.6	

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 05.00 A.M.

****End of Test Report****

Page 1 of 1

OR ENVIRONTE HIS ERVICES

Format no ETS /LAS/TR-02 Issue No 64 et 01/05/2016 Rev No 03 dt 01/05/2016

For Enviro-Tech Services

AUTHORIZED SIGNATORY

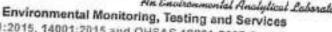
Dy. Quality manager

Note:-

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 inhorstory.
 The samples received shall be destroyed after one manis from the date of test report bosted.

The results indicated only refer to the tested samples and listed applicable parameters.







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email: etslab2012@gmail.com / Website www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-01d/12/2017

DATE OF REPORT :12-12-2017

NOISE MONITORING REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

MIS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

DHANBAD, JHARKHAND, INIDA

Date of Manitoring

04-12-2017

Monitoring Start Date

04-12-2017

Monitoring End Date

: 05-12-2017

Menitoring Done By

: ETS STAFF

Monitoring Duration

24.0 HOURS

Place Of Monitoring

: CHASNALA (AAQ-CZ4)

Category Of Area

: INDUSTRIAL AREA

Bampling Method

: ETS/LAB/NOISE-01

S, No.	Description Noise Level dB(A)	Re	sult	Ambient Noise Standards/Specification (CPCB/Factories Act)		
		Day	Night	Day	Night	
1	Average	61.2	52.9		right	
2	Maximum	88.1	57.1		-	
2.	Minimum	58.8	50.8			
4	Leq dB (A)	64.9	56.1			
	1		50.1	75/90	70	

Remark: Day time is reckoned in between 96.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Page 1 of 1

SERVICES

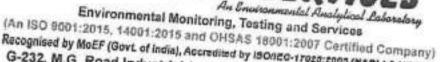
AUTHORIZED SIGNATORY

Format no ETS /LAB/TR-02 Issue No 04 et 01/06/2016 Rev No 03 et 01/06/2016

Note:-Die Occativ standigen 4. This test report shall not be used in any advortising 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.





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ISO SPOTITAGE VICHEAS 18001

Are No. Mattizoeth

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-016/12/2017

DATE OF REPORT :12-12-2017 NOISE MONITORING REPORT

Name And Address of Customer

TABRA COAL MINING PROJECT

MIS. STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

Monitoring Start Date

: 04-12-2017 04-12-2017

Monitoring End Date

Monitoring Done By

05-12-2017

Monitoring Duration

: ETS STAFF 1 24.0 HOURS

Place Of Monitoring

: KANDRA (AAQ-023)

Category Of Area

INCUSTRIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

S. No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (GPCB/ Factories Act)	
	*******	Day	Night	Day	The second secon
1.	Average	59.7	50.5	uay	Night
Z.	Maximum	-			
-	- Company	61.5	52.0		
3.	Minimum	ED 4	-		
- 1		58.1	47.5		
4	Leg dB (A)	62.1	52.5	75/90	70

Remark: Day time is reckoned in between 06:00 A.M. and 10:00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Page 1 of 1

SERVICES

Formal no ETS /LAB/TR-02 Issue No 64 dt 01/05/2015 Rev No 63 dt 01/05/2016

F -- EnvironTech Services

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.

The samples received shall be destroyed after one mostly from the date of too covered issued.

The samples: received shall be destroyed after one month from the date of test report issued.

. The results indicated only refer to the tested samples and ilsted applicable parameters.

. Our liability is limited to invoice value only.

dute:-





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TEST REPORT

TEST REPORT NO : ETS/90-01h/12/2017

DATE OF REPORT 12-12-2017

NOISE MONITORING REPORT

Name And Address of Customer

TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

04-12-2017

Monitoring Start Date

04-12-2017

Monitoring End Date

: 05-12-2017

Monitoring Done By

Monitoring Duration

: ETS STAFF

Place Of Monitoring

1 24.0 HOURS

Category Of Area

JORADIH (AAQ-EZ4) : RESIDENTIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

3. No. D	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (CPCB/ Factories Act)	
		Day	Night	Day	Night
1	Average	50.7	44.2		regin
2	Maximum	53.2	48.4		
3.	Minimum	49.7	43.3		
4.	Leq aB (A)	51.7	42.0		
-			42.0	55	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 05.00 A.M.

""End of Test Report""

Page 1 of 1

RO TECH SERVICES

For Enviro-Tech Services

AUTHORIZED AIGNATORY

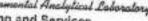
Dy. Quality manager

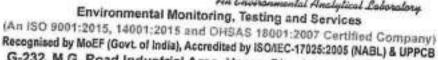
Formating ETS /LAB/TR-02 | Issue No 04 at 01/06/2016 | Rev No 03 dt 01/06/2016

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. The results indicated only refer to the tested samples and listed applicable parameters.







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

TEST REPORT

TEST REPORT NO : ETS/90-01e/12/2017

DATE OF REPORT :12-12-2017

NOISE MONITORING REPORT

Name And Address of Customer

TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

04-12-2017

Monitoring Start Date

: 04-12-2017

Monitoring End Date

Monitoring Done By

: 05-12-2017

Monitoring Duration

ETS STAFF

Place Of Monitoring

24.0 HOURS

Category Of Area

AMLABAD (AAQ-BZ1) RESIDENTIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

8. No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (CPCB/ Factories Act)	
		Day	Night	Day	Night
f.	Average	53.4	43.9		1797
Z.	Maximum	50.1	46,1		
3.	Minimum	52.3	43.0		
4.	Leq dB (A)	54.5	41.7	55	45

Remark: Day time is reckoned in between 05.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Page 1 of 1

SERVICES

Format no ETS /LAB/TR-02 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016

For Enviro-Tech Services

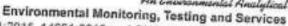
THORIZED SIGNATORY Md. Humraj

Dy. Quality manager

1. This test report shall not b e 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.





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ISO 9901/14001/OHBAS 16001 Acc. No.- M31112041N

TEST REPORT

TEST REPORT NO : ETS/90-016/12/2017

DATE OF REPORT :12-12-2017

NOISE MONITORING REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

04-12-2017

Monitoring Start Date

1 04-12-2017

Monitoring End Date

: 05-12-2017

Monitoring Done By

ETS STAFF

Monitoring Duration

24.0 HOURS

Piace Of Monitoring

BAGHMARA (AAQ-BZ2)

Category Of Area

RESIDENTIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

5. No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (GPCB/ Factories Act)	
		Day	Night	Day	Night
1.	Average	50.7	43.2		
2	Maximum	54.9	44.0		
3.	Minimum	50.2	42.8		
4.	Leq dB (A)	51.7	43.6	55	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Page 1 of 1

HISERVICES

For Enviro-Tech Services AUTHORIZED SIGNATORY

Md. Humraj

Note:-

Format no ETS /LAB/TR-02 | Issue No 04 at 01/05/2010 | Rev No 03 at 01/05/2016

1. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written perhips and in the perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of Law without prior written perhips and it is the court of the court of Law without prior written perhips and it is the court of 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.



Environmental Monitoring, Testing and Services



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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/90-01g/12/2017

DATE OF REPORT :12-12-2017

NOISE MONITORING REPORT

Name And Address of Customer

1 TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

04-12-2017

Monitoring Start Date

04-12-2017

Monitoring End Date

Monitoring Done By

: 05-12-2017

Monitoring Duration

ETS STAFF

Pizes Of Monitoring

: 24.0 HOURS

Category Of Area

JHARIA (AAQ-BZ3) RESIDENTIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

S. No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (CPCB/ Factories Act)	
		Day	Night	Day	Night
1.	Average	50.2	42.7		reignit
2.	Maximum	54.2	46.1		
3,	Minimum	48.2	41.0		
4	Leg dB (A)	52.2	43.6		
-				55	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

""End of Test Report""

Page 1 of 1

SERVICES

Format no ETS /LAB/TR-02 | Ivaue No 04 dt 01/05/2016 | Rev No 05 dt 01/05/2016

AUTHORIZED SIGNATORY

SterThis test report shall not be used in any advertising media or as evidence in the court of 1.4w without prior written permission of the disbystern and the court of 1.4w without prior written permission of the disbystern and the court of 1.4w without prior written permission of the disbystern and the court of 1.4w without prior written permission of the disbystern and the court of 1.4w without prior written permission of the disbystern and the court of 1.4w without prior written permission of the disbystern and the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of the court of 1.4w without prior written permission of 1.4w without permission e received shall be destroyed after one mouth from the date of test report based. The results indicated only refer to the tested samples and tisted applicable parameters.



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ISO 8001/14001/OHSAS 18001 Acc. No.- M31112041N

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

email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO: ETS/88-01b/10/2017

DATE OF REPORT: 11-10-2017

NOISE MONITORING REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

: 03-10-2017

Monitoring Start Date

03-10-2017

Monitoring End Date

04-10-2017

Monitoring Done By

ETS STAFF

Monitoring Duration

24.0 HOURS

Place Of Monitoring

TASRA (AAQ-CZ2)

Category Of Area

INDUSTRIAL AREA

Sampling Method

ETS/LAB/NOISE-01

S. No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (CPCB/ Factories Act)	
		Day	Night	Day	Night
t	Average	65.3	57.4		
2.	Maximum	89.2	8.08		
3.	Minimum	62.0	54.5		
4	Leq dB (A)	67.9	59.7	75/90	70

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report***

Page 1 of 1

For Enviro-Tech Services

Format no ETS JLAB/TR-02 Issue No 04 dt 01/00/2015 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 bound.

3. The results indicated only refer to the tested samples and listed applicable parameters.



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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/88-01a/10/2017

DATE OF REPORT :11-10-2017

NOISE MONITORING REPORT

Name And Address of Customer

TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

03-10-2017

Monitoring Start Date

03-10-2017

Monitoring End Date

04-10-2017

Monitoring Done By

ETS STAFF

Monitoring Duration

24.0 HOURS

Place Of Monitoring Category Of Area

ROHRABANDH (AAQ-CZ1)

INDUSTRIAL AREA ETS/LAB/NOISE-01

Sampling	Method	

e Level dB(A)	Result		Ambient Noise Standards/Specification (CPCS/ Factories Act)	
	Day	Night	Day	Night
	63.5	55.0		
	68.7	57,8		
	62.2	53.9		
	64.8	56.1	75/90	70
	e Level dB(A)	E Level dB(A) Day 63.5 68.7 62.2	Be Level dB(A) Day Night 63.5 55.0 68.7 57.8 62.2 53.9	Result (CPCB/ Fact Day Night Day 63.5 55.0 68.7 57.8 62.2 53.9

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

""End of Test Report""

For Enviro-Tech Services

AUTHORIZED SIGNA TOMPICAL Dy. Quality manager

Format no ETS /LAB/TR-02 Issue No 04 dt 01/06/2015 Rev No 03 dt 01/06/2016

Page 1 of 1

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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO: ETS/88-01d/10/2017

DATE OF REPORT: 11-10-2017

NOISE MONITORING REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

: 03-10-2017

Monitoring Start Date

03-10-2017

Monitoring End Date

04-10-2017

Monitoring Done By

: ETS STAFF

Monitoring Duration Place Of Monitoring

24.0 HOURS

Category Of Area

CHASNALA (AAQ-CZ4)

category or Area

INDUSTRIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

5, No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (CPCB/ Factories Act)	
		Day	Night	Day	Night
1.	Average	61.5	53.2		200
2	Maximum	66.4	57.6		
3.	Minimum	59.0	51.1		
4.	Leg dB (A)	85.2	55.4	75/90	70

Remark: Day time is reckaned in between 06.00 A.M. and 10.00 P.M. Night time is reckaned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

KEDS # 30

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Dy. Quality manager

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2. The samples received shall be destroyed after one month from the date of test report issued.

The results indicated only refer to the tested samples and listed applicable parameters.
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email: etslab2012@gmail.com | Website: www.etslab.asia

Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO: ET8/88-01c/10/2017

DATE OF REPORT:11-10-2017

NOISE MONITORING REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

MIS, STEEL AUTHORITY OF INDIA LIMITED, PO-CHASNALA,

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

: 03-10-2017

Monitoring Start Date

: 03-10-2017

Monitoring End Date

: 04-10-2017

Monitoring Done By

ETS STAFF

Monitoring Duration

24.0 HOURS

Place Of Monitoring

KANDRA (AAQ-CZ3)

Category Of Area

INDUSTRIAL AREA

Sampling Method

ETS/LAB/NOISE-01

8, No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (CPCB/ Factories Act)	
		Day	Night	Day	Night
1.	Average	60.0	50.8		
2.	Maximum	61.8	52.3		
3.	Minimum	55.4	47.8		THOU THE
4.	Leg dB (A)	62.4	52.8	75/90	70

Remark: Day time is reckoned in between 08.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Page 1 of 1

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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/88-01f/10/2017

DATE OF REPORT : 11-10-2017

NOISE MONITORING REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

: 03-10-2017

Monitoring Start Date

03-10-2017

Monitoring End Date

: 04-10-2017

Manitoring Done By

ETS STAFF

Monitoring Duration

24.0 HOURS

Place Of Monitoring

: BAGHMARA (AAQ-BZ2)

Category Of Area

: RESIDENTIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

S. No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (CPCS/ Factories Act)	
		Day	Night	Day	Night
1.	Average	51.0	43.5		
2.	Maximum	55.1	45.2		
3,	Minimum	50.5	43,1		
4.	Leq dB (A)	52.0	43.9	55	45

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

****End of Test Report****

Page 1 of 1

For Enviro-Tech Services

Dy. Quality manager

ormat no ETS /LAB/TR-02 Issue No 04 at 01/06/2016 Rev No 03 at 01/06/2016

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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.

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Ph.: 9811736063, 9911516076

TEST REPORT

TEST REPORT NO : ETS/88-01e/10/2017

DATE OF REPORT :11-10-2017

NOISE MONITORING REPORT

Name And Address of Customer

: TASRA COAL MINING PROJECT

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

DHANBAD, JHARKHAND, INIDA

Date of Monitoring

03-10-2017

Monitoring Start Date

: 03-10-2017

Monitoring End Date

04-10-2017

Monitoring Done By

ETS STAFF

Monitoring Duration

24.0 HOURS

Place Of Monitoring

AMLABAD (AAQ-BZ1)

Category Of Area

RESIDENTIAL AREA

Sampling Method

: ETS/LAB/NOISE-01

5. No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/Specification (CPCB/ Factories Act)	
		Day	Night	Day	Night
1.	Average	53.7	44.2		
z	Maximum	56.4	46.4		
3.	Minimum	52.6	43.3		
4.	Leq dB (A)	54.8	42.0	55	45

Remark: Day time is reckoned in between 05.00 A.M. and 10.00 P.M. Night time is reckoned in between 10.00 P.M. and 05.00 A.M.

****End of Test Report****

FOR ENVIRONTECH SERVICES

Page 1 of 1

For Enviro-Tech Services

Dy. Quality markey

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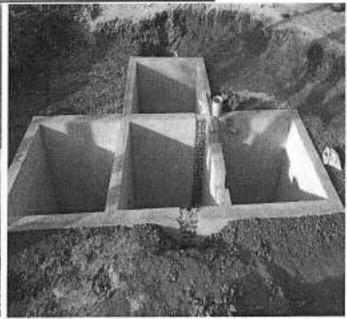
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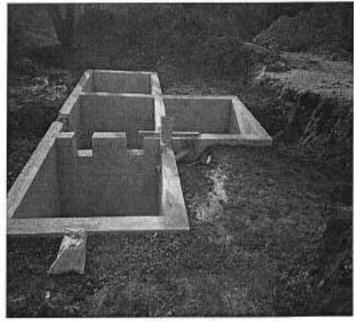
ANNEXURE- III

EFFLUENT TREATMENT PLANT UNDER CONSTRUCTION















National Accreditation Board for **Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

ENVIRO-TECH SERVICES

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

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

for its facilities at

G-232, M.G. Road, Industrial Area, Hapur, Uttar Pradesh

in the field of

TESTING

Certificate Number TC-6250 (in lieu of T-3594)

Issue Date

24/09/2017

Valid Until

23/09/2019

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

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

Signed for and on behalf of NABL

N. Venkateswaran Program Director



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Anil Relia Chief Executive Officer Carrier man