

P&T DEPARTMENT, CORPORATE OFFICE, NALCO BHAWAN, P-1, NAYAPALLI, BHUBANESWAR-751013 PHONE: 0674-2300633, 06764-221323,

EMAIL: smruti.mohanty@nalcoindia.co.in, gm_uecb@nalcoindia.co.in

Ref: NBC/ED (Proj & Tech) / 1461

Date: 21.11.2023

To The Deputy Director General of Forest Integrated Regional Office Ministry of Environment, Forest & Climate Change Regional Office (EZ), A/3, Chandrashekharpur, Bhubaneswar – 751023

Email: roez.bsr-mef@nic.in

Sub: Submission of Half Yearly Compliance Report of Environment Clearance issued to Utkal-D Coal Mines of NALCO for the period of Apr'23 to Sep'23

Ref:

- Environment Clearance of Utkal-D Coal Mines issued by MOEFCC vide letter no. J-11015/203/2006-IA.II(M) dated 29.01.2007.
- Environment Clearance of Utkal-D Coal Mines transferred by MOEFCC vide letter no. J-11015/203/2006-IA.II(M) dated 11.08.2020.

Sir,

Inviting reference to the subject cited above, please find enclosed the Half Yearly Compliance Report for the period of Apr'23 to Sep'23 for the conditions stipulated in Environment Clearance of Utkal-D Coal Mines of NALCO issued vide MOEF & CC's letter no. J-11015/203/2006-IA.II(M) dated 29.01.2007 and letter no. J-11015/203/2006-IA.II(M) dated 11.08.2020 for your kind consideration. The copy of the compliance report is also being sent in the soft format to email id for your kind perusal.

We wish to inform that all the necessary actions are being taken in compliance to the specific and general condition of Environment Clearance granted to Utkal-D Coal Mines of NALCO.

We trust that the information furnished is in line with your requirement.

Thanking You

Yours Faithfully For and on behalf of NALCO

(Smruti Ranjan Mohanty)) GGM (T & C) and Authorized Signatory

Enclosure(s).

नेशनल एल्यूमिनियम कम्पनी लिमिटेड (भारत सरकार का एक उद्यम) निगम कार्यालय National Aluminium Company Limited

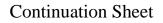
(A Government of India Enterprise) CORPORATE OFFICE

नालको भवन, पि-1, नयापल्ली, भुवनेश्वर - 751 013 . भारत Nako Bhawan, P/1. Nayapali,Bhubaneswar - 751 013, India फोन Telephone: (EPABX) (0674) 2301988, 2301999, 2300013, 2300976, 2301550, 2303233, फैक्स Fax-(0674) 2301290, 2300580,2300740, 2300640 & 2300246, वेबसाटठ Website: www.nalcoindia.com CIN: L27203OR1981GO1000920



Copy to:

- AIG of Forest, Ministry of Environment Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110003 (email: monitoring-ec@nic.in)
- Member Secretary, Central Pollution Control Board, Parivesh Bhawan', East Arjun Nagar, Shahdara, New Delhi – 110032 (email: mscb.cpcb@nic.in)
- Zonal Office, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floor, 1582 Rajdanga Main Road, Kolkata, WB – 700107 (email: rdkolkata.cpcb@gov.in)
- Member Secretary, State Pollution Control Board, Parivesh Bhawan, A/118, Unit 8, Nilkantha Nagar, Nayapalli, Bhubaneswar, Odisha – 751012 (email: paribesh1@ospcbboard.org)
- 5. Regional Officer, State Pollution Control Board, S-3/3, Industrial Estate, Hakimpada, Angul, Odisha (email: rospcb.angul@ospcbboard.org)







HALF YEARLY COMPLIANCE REPORT (APRIL 2023 TO SEPTEMBER 2023)

For

Utkal "D" Coal Mines At. Tehsil Chhendipada, District Angul, Odisha

Of

National Aluminium Company Limited (NALCO)



Half Yearly EC Compliances Report of Utkal-D Coal Mines

MOEFCC File No. J-11015/203/2006-IA.II(M) dated: 29.01.2007 MOEFCC File No. J-11015/203/2006-IA.II(M) dated 11.08.2020

A. Specific Conditions

S. No	Conditions	Compliance Status / Remark
(i)	The Orissa Mining Company Ltd (OMCL) shall ensure strict compliance of all the environmental conditions imposed in this environmental for Utkal – D coal mining project.	Environment Clearance issued to M/s Orissa Mining Company Ltd (OMCL) has been transferred to National Aluminium Company Limited (NALCO) vide MOEF&CC letter J-11015/203/2006-IA.II(M), dated 11.08.2020. Presently NALCO is ensuring strict compliance of all the environmental conditions imposed vide this environmental clearance of Utkal D coal mining project.
(ii)	The OMCL shall be responsible for this project under the varies Acts, namely the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act.1981, the Environment (Protection) Act, 1986 and Public Liability Insurance Act, 1991 along with their amendments and Rules framed thereunder.	Environment Clearance issued to M/s Orissa Mining Company Ltd (OMCL) has been transferred to National Aluminium Company Limited (NALCO) vide MOEFCC letter J-11015/203/2006-IA.II(M), dated 11.08.2020. Presently NALCO will be responsible for this project under the varies Acts, namely the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and Public Liability Insurance Act, 1991 along with their amendments and Rules framed thereunder.
(iii)	In case of change of technology from opencast to underground, a fresh clearance shall be obtained. The present clearance is only for opencast mining.	Noted. There is no proposal of changing the technology from opencast to underground as of now. Opencast mining will be carried out at Utkal D coal mines.
(iv)	All the conditions stipulated by SPCB in their NOC shall be effectively implemented.	All the conditions stipulated by SPCB in their NOC is being complied.
(v)	Mining operations in forest area shall be restricted only to that area for which forestry clearance for diversion of forestland has been obtained.	The mining operation strictly is being carried out only in area where forestry clearance for diversion of forestland has been obtained.



Conditions	Compliance Status / Domark
	Compliance Status / Remark
statuette at a safe distance from the Singhada Jhor and the nallah flowing within the lease boundary. An embankment of 3m height shall	Mining activities is being carried out as per statuette at a safe distance from the Singhada Jhor and the nallah flowing within the lease boundary by maintaining a distance of 15m as specified in amended Consent to Operate (CTO) issued by SPCB vide Letter No
start of mining operations along the southern bank of the Jhor and also	14903/IND-I-CON-6762 dated 19.08.2022. Embankment of 3m height along the southern bank of the Jhor and also by the side of the diverted nallahs is
Top soil shall be stacked properly with proper slope at earmarked site(s) and should not be kept active and shall be used for reclamation and development of greenbelt.	under progress. The excavated top soil has been stacked with terracing method and proper slope and height is being maintained at earmarked site as per approved Mining Plan. Garland drainage also been constructed around the top soil storage area for rain water drainage and for top soil protection. In future top soil will be used for reclamation and development of greenbelt. Location of the top soil is enclosed as Annexure 1 .
OB should be stacked at earmarked external OB dump site within mining lease area and shall be a maximum height of 90m only and cons it of benches of 30m each. The ultimate slope of the dump shall not exceed 28°, Monitoring and management of reclaimed dump site should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of	OB is being removed and stacked at earmarked site as per approved mining plan in terracing method up to maximum 60m height and slope angle is being maintained as per guide line of MoEF&CC. Final terraces will be used for plantation work. The compliance status of dump is being submitted to MoEF&CC and SPCB, Bhubaneswar.
Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.	Contraction of the second seco
Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediments flow from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area roads, green belt development etc. The drains should be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity should be	The appropriate size of catch drain around the OB dumps has been constructed to arrest silt and sediments flow from soil, OB and mineral dumps. The collected water is being utilized for sprinkling on haul roads and green belt development. The drain is being regularly desilted and maintained properly. The garland drains of width 2.5m with 60:1 gradient and 2.3 km length has been constructed till date. Capacity of sump is designed for 24,500 KL by keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Retention period of two days is provided to allow proper settling of silt material.
	Singhada Jhor and the nallah flowing within the lease boundary. An embankment of 3m height shall be constructed within 2 years of start of mining operations along the southern bank of the Jhor and also by the side of the diverted nallahs. Top soil shall be stacked properly with proper slope at earmarked site(s) and should not be kept active and shall be used for reclamation and development of greenbelt. OB should be stacked at earmarked external OB dump site within mining lease area and shall be a maximum height of 90m only and cons it of benches of 30m each. The ultimate slope of the dump shall not exceed 28°, Monitoring and management of reclaimed dump site should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.



S. No	Conditions	Compliance Status / Remark
	margin over and above the peak	and the second s
	sudden rainfall and maximum	the second se
	discharge in the area adjoining the	And a state of the second descent second s
	mine site. Sump capacity should	and the second sec
	also provide for adequate retention	
	period to allow proper settling of silt	
	material.	
(x)	Dimension of the retaining wall at	Dimension of the retaining wall and toe of the dumps
	the toe of the dumps and OB	is being designed as per guidelines. OB benches are
	benches within the mine to check	maintained with the maximum height 6-7 m and width
	run-off and siltation should be based	10m to check run-off and siltation. This is based on the
	on the rainfall data.	rainfall data and as per guidance of local office of the SPCB.
(xi)	Crushers at the CHP should be	Note. No CHP installed in mines as of now.
	operated with high efficiency bag	
	filters and water sprinkling system	
	should be provided to check fugitive	
	emissions from crushing operations,	
	conveyor system, haulage roads,	
	transfer points etc.	
(xii)	Drills should be wet operated only.	At present two nos of wet operated drills are used for drilling work.
(xiii)	Controlled blasting should be	Controlled blasting is being done with use of delay
	practiced with use of delay	detonators and only during day time. Required
	detonators and only during day time. The mitigate measures for	mitigation measures are being adopted to control the ground vibrations and to arrest the flying rocks and
	control of ground vibrations and to	boulders.
	arrest fly rocks and boulders should	bounders.
	be implemented.	
(xiv)	The total area brought under	Noted.
× ,	afforestation shall not be less than	
	291.13 ha and shall include external	
	OB dump (Area 106.57 ha), back	
	filling area covering 60 ha, balance	
	excavated void (106.42 ha), along	
	mining lease boundary, greenbelt (6	
	ha), safety zone (12.14 ha) and	
	vacant/undisturbed area by planting	
	native species in consultation with	
	the local DFO/Agriculture dept. The density of the trees should be around	
	2500plants/ha.	
(xv)	Backfilling shall begin from the 21 st	Note. Not applicable as of now as backfilling work not
(,)	year of mining operations. A	yet started.
	progressive mine closure plan shall	y
	be implemented and OB generated	
	shall be back filled covering a total	



S. No	Conditions	Compliance Status / Remark
0.110	area of 60 ha. Plantation shall be	Comphance Status / Kellark
	develop over the back filled area and	
	on balanced of the excavated area	
	(void) covering an area of 106.42	
	ha, the higher benches of which	
	shall be gently sloped.	
(xvi)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to MOEF and CPCB quarterly within one month of monitoring.	Regular monitoring of ground water level and quality is being done. Construction bore well and installation of piezometers and automatic flow meters has been done. Water quality and ground water level data is being monitored and same is being submitted to SPCB, CPCB and MoEFCC. Monitoring Report enclosed as Annexure 2.
(xvii)	The Company shall put of artificial ground water recharge measures or augmentation of ground water resource. The project authority shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Soil Moisture Conservation Plan for buffer zone of the mines area has been submitted to MoEFCC and implementation cost of Rs. 10.88 Cr. already been deposited in Odisha CAMPA account. We are also providing water to nearby villagers for their daily needs. Apart from this, rain water harvesting structure will be installed after construction of office buildings and residential colony.
(xviii)	ETP also be provided for workshop and CHP waste water	Construction of ETP for treatment of waste water is under progress.
(xix)	A program for conservation of the endangered species found in the study area, if any, shall be formulated and implemented in consultation with the concerned Department in the State Government. Separate funds, shall be earmarked for implementation of the various activities thereunder and the status thereof shall be regularly reported to this Ministry and its Regional Office, Bhubaneswar.	Noted. No endangered species is found in the study area. However, if any endangered species is found in study area then program for conservation of the endangered species will be formulated and implemented in consultation with the concerned Department in the State Government. Separate funds will be earmarked for implementation of the various activities thereunder and the status thereof will be regularly reported to MOEFCC and its Regional Office at Bhubaneswar.
(xx)	Digital processing of the entire lease area using remote sensing techniques should be done regularly once in 3 years for monitoring land use pattern and reports submitted to MOEF and its Regional Office at Bhubaneswar.	Mining activities started on date 09.11.2022. Digital processing of the entire lease area using remote sensing techniques will be done for monitoring land use pattern and reports will be submitted to MOEF & CC and its Regional Office at Bhubaneswar.



S. No	Conditions	Compliance Status / Remark
		Occupational health surveillance is being carried out
(xxi)	Besides carrying out regular periodic health checkup of their workers, 10% of workers identified from work force engaged in active mining operations shall be subject to health checkup for occupational diseases, and hearing impairment, if any, through an agency such as NIOH, Ahmadabad with in period of one year and the results reported to his ministry ad to DGMS.	for all employees in respective time interval at Utkal Polyclinic Bhubaneswar. (Annexure 3)
(xxii)	R&R of village Dhobamalia basti shall be completed within the specified time schedule and the R&R package shall not be less than that of the National R&R policy.	R&R compensation as per the policy of Govt. of Odisha and consultation with the PAVs and PDFs in RPDAC already been approved and disbursed to the affected families.
(xxiii)	A final mine closure plan along with details of Corpus fund should be submitted to Ministry of Environment and Forest 5 years in advance of final mine closure for approval.	Noted. Not applicable as of now. Final mine closure plan along with details of Corpus fund will be submitted to the MOEFCC 5 years in advance before the mine closure for approval.
(xxiv)	Consent to operate shall be obtained before start of Mining operation.	The Consent to Operate has been obtained from State Pollution Control Board, Odisha vide Letter No 14903/IND-I-CON-6762 dated 19.08.2022 before start of the mine.
	B. Ger	neral Conditions
(i)	No change in Mining Technology and scope of working should be made without prior approval of the MOEF	There is no change in Mining Technology and scope of working. Prior approval of MOEF & CC will be taken incase of any change in Mining Technology and scope of working.
(ii)	No change in calendar plan including excavation, quantum of mineral coal and waste should be made.	No change in calendar plan including excavation, quantum of mineral coal and waste. As of now mining operation is going on as per the approved mining plan.
(iii)	Four Ambient Air Quality Monitoring station should be established in the core zone as well as in the buffer zone for SPM, RPM, SO_2 and NO_x monitoring location of the station should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation of the SPCB	Four Ambient Air Quality Monitoring stations are established in the core zone as well as in the buffer zone for monitoring of SPM, RPM, SO ₂ and NO _x . Monitoring locations of the station are decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation of the SPCB. NABL accredited laboratory is carrying out the monitoring work. Monitoring report enclosed as Annexure 2 .
(iv)	Data on ambient air quality (SPM, RPM, SO ₂ and NO _x) should be	Data on ambient air quality (SPM, RPM, SO ₂ and NO _x) are regularly monitored by NABL accredited



S. No	Conditions	Compliance Status / Remark
0.110	regularly submitted to the MOEF	laboratory and submitted to MOEF&CC New Delhi,
	including its Regional Office,	MOEFCC Bhubaneswar, SPCB and CPCB along with
	BBSR and to SPCB and CPCB once	Half yearly compliance report. Monitoring report
	in six months	enclosed as Annexure 2 .
(v)	Fugitive dust emission (SPM and	Fugitive dust emission (SPM and RPM) from all
	RPM) from all source should be	sources are monitored regularly and data are recorded
	control regularly monitored and	properly. This is being submitted to the MOEFCC New
	data recorded properly. Water	Delhi, MOEFCC Bhubaneswar, SPCB and CPCB
	spraying arrangements on haul	along with Half yearly compliance report.
	roads, wagon loading, dump trucks	Water spraying arrangements are available for control
	(Loading and unloading) points	of fugitive dust on haul roads, dumping area, stock
	should be provided and properly	yard, trucks loading and unloading points. 4 nos of
	maintained.	water sprinkling tankers of capacity 18 KL each, 02
		nos mist cannon of capacity 12 KL each and 20 nos of
		rain guns are used for controlling the fugitive dust
		inside the mines area.
		Teleforcetration
		and the second sec
		MYTHRI DEN SALE
(vi)	Adequate measures should be taken	Adequate measures are taken to control the noise levels
	for control of noise levels below 85 $dP(A)$ in the work environment	below 85 dB(A) in the work environment. Workers
	dB(A) in the work environment. Workers engaged in blasting and	engaged in blasting and drilling operations, operation
	drilling operations, operation of	of HEMM etc are provided with ear plugs/muffs. New machineries are being used in mines. A well
	HEMM etc should be provided with	experience mechanic team with mobile maintenance
	ear plugs/Muffs	van is engaged for maintenance of mining equipment
		and timely maintenance is being done to reduce noise
		from vehicles.
(vii)	Industrial waste water (workshop	Waste water collected from mines area is being
	and waste water from mine) should	collected in de-silting pond for treatment. This water is
	be properly collected, treated so as	being used for various mining activities such as
	to conform to the standards	sprinkling on road, dust suppression, plantation etc.
	prescribed under GSR 422 (E) dated	During monsoon season excess collected water is
	19 th May, 1993 and 31 st December,	being discharge to nearby nallah after proper treatment
	1993 as amended from time to time	as per the standards prescribed under GSR 422 (E)
	before discharge. Oil and grease	dated 19 th May, 1993 and 31 st December, 1993 as
	trap should be installed before	amended from time to time. Establishment of Oil and
	discharge of workshop effluents.	grease trap inceptor is in progress.
(viii)	Vehicular emissions should be kept	Regular maintenance of mining equipment are being
	under control and regularly	done to control the vehicular emissions.



S. No	Conditions	Compliance Status / Remark
5.110	monitored Vehicles used for	Truck/dumpers used for transportation of coal are
	transportation the mineral should be	being monitored regularly by PUC certificate.
	covered with tarpaulin and	At present coal is being transported through
	optimally loaded.	trucks/dumper which is loaded optimally and covered
	optimuliy loudou.	with tarpaulin.
(ix)	Environmental laboratory should be	NALCO is in the process of establishing
(111)	established with adequate number	Environmental laboratory. Pollution monitoring and
	and type of pollution monitoring	laboratory equipment will be purchased in consultation
	and analysis equipment in	with State Pollution Control Board.
	consultation with the State Pollution	
	Control Board.	
(x)	Personnel working in dusty areas	PPE's are provided to all employees of mine to protect
()	should wear protective respiration	them from dust and noise. Prior training is being
	devices and they should also be	imparted to all working employees on job, safety and
	provided with adequate training and	health aspects. Periodic re-fresher training are also
	information on safety and health	being done for employees working inside the mine.
	aspects.	Periodically medical examinations is being carried out
	Occupational health surveillance	for all employees of mines to detect any contractions
	programme of the workers should	due to exposure to dust and noise and to take corrective
	be undertaken periodically to	measures, if required. The latest Health Check-up
	observe any contractions due to	report carried out in Oct'23 is attached as Annexure 3.
	exposure to dust and take corrective	
	measures, if needed.	
(xi)	A separate environmental	A separate environmental management cell will be
	management cell with suitable	setup with suitable qualified personnel under the
	qualified personnel should be set up	control of a Senior Executive, who will report directly
	under the control of a Senior	to the Head of the company.
	Executive, who will report directly	
(···)	to the Head of the company.	
(xii)	The funds earmarked for	The funds earmarked for environmental protection has
	-	been kept in separate and will not diverted for any
	kept in separate account and should	other purpose. Year wise expenditure will be reported
	not be diverted for other purpose.	to Ministry and its Regional Office at Bhubaneswar.
	Year wise expenditure should be reported to this Ministry and its	
	Regional Office at BBSR.	
(xiii)	The Regional Office of this Ministry	Full cooperation will be provided to the officers(s) of
	located at Bhubaneswar shall	the Regional Office by furnishing the requisite
	monitor compliance of the	data/information/monitoring reports as and when
	stipulated conditions. The Project	required.
	Authorities shall extend full	
	cooperation to the officers(s) of the	
	Regional Office by furnishing the	
	requisite	
	data/information/monitoring	
	reports.	
(xiv)	A copy of the environmental	Environment Clearance of Utkal D Coal block was
	clearance letter shall be marked to	granted to M/s OMC Ltd on 19.01.2007. Coal block

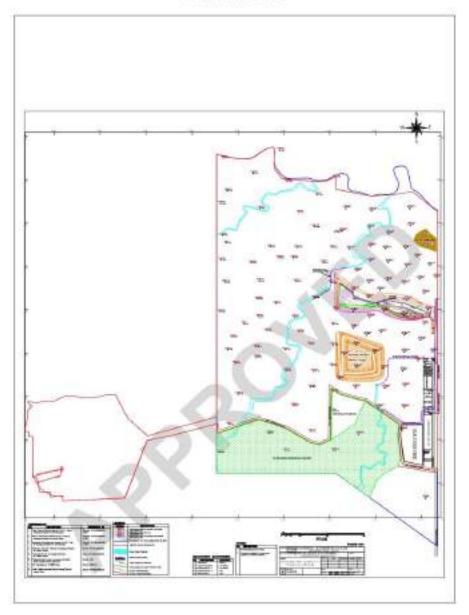


S. No	Conditions	Compliance Status / Remark
	concerned Panchayat/Local NGO, if	was deallocated as per the order of Hon'ble Supreme
	any, from whom any	Courte of India vide their Judgment dated 25.08.2014.
	suggestion/representation has been	Further coal block was allocated by Ministry of Coal
	received while processing the	to M/s NALCO Ltd under the Coal Mines (Special
	proposal.	Provision) Act 2015 vide allotment order no. F.No.
		103/34/2015-NA dated 02.05.2016. Same
		Environment Clearance was transferred from the M/s
		MC to NALCO.
(xv)	State Pollution Control Board	Not applicable
	should display a copy of the	
	clearance letter at the Regional	
	Office, District Industry center and	
	Collector's Office/Tehsildar's	
	Office for 30 days.	
(xvi)	The Project Authorities should	Environment Clearance of Utkal D Coal block was
	advertise at least in two local	granted to M/s OMC Ltd on 19.01.2007. Coal block
	newspaper widely circulated around	was deallocated as per the order of Hon'ble Supreme
	the project, one of which shall be in	Courte of India vide their judgment dated 25.08.2014.
	the vernacular language of the	Further coal block was allocated by Ministry of Coal
	locality concerned within seven	to M/s NALCO Ltd under the Coal Mines (Special
	days of the clearance and a copy of	Provision) Act 2015 vide allotment order no. F.No.
	the clearance letter is available with	103/34/2015-NA dated 02.05.2016. Same
	the state pollution control Board and	Environment Clearance was transferred from the M/s
	may also be seen at the website of	MC to NALCO.
	the MOEF at http://envfor.nic.in	



Location of Top Soil





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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 21AADCT4043NIZE CIN U725010R2010PTC011651



WCS/LQR/57

TEST REPORT

			166320933555
Report No.	: WCS230405B	Issue Date	: 17.04.2023
NABL ULR No.	: TC1122523000000045F		
Name of the Client	: National Aluminium Company L	imited	
Address	: Smelter & Power (S&P) Complex		
	Angul-759145, Odisha		
Sampling Location	: Colony area		
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	: 06.04.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	: WCS0423A12
Environmental Condition	: Clear Weather	Date of Receiving	: 08.04.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	: 1 No.
Date of Testing	: 08.04.2023 to 10.04.2023	Sample Condition	: Good

Unit	Result	Standard as per CTO No-2938	Test Method
$\mu g/m^{\pm}$	270	500	IS-5182 (Part-4) 1999 RA 2019
µg/m ³	88.98	150	IS-5182 (Part-23) 2006 RA 2017
µg/m ⁸	< 4.0	120	1S-5182 (Pan-2) 2001 RA 2017
µg/m ²	14.2	120	IS-5182 (Part-6) 2006 RA 2017
µg'm ³	47.75		IS-5182 (Part-24) 2019
	μg/m ³ μg/m ³ μg/m ³ μg/m ³	μg/m ³ 270 μg/m ³ 88.98 μg/m ³ < 4.0 μg/m ³ 14.2	μg/m³ 270 500 μg/m³ 88.98 150 μg/m³ < 4.0

Reviewed by

(Mr. Bijaya Kumar Chahataray)

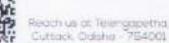
O The results relate to the sample received in respect to the Parameters tested.

- Liability for return of sample ceases after 7 days from the date of Test certificate.
 The report cannot be reproduced either in full or in part, without prior written consent of Director.
- In case of any complaint, please mail as bijaya a theworld co.in

-END OF REPORT-



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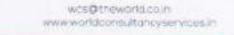


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Authorized Signatory

(Mr. Pradeept Mohaputra)

APR23-B2/2



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC011651



WCS/LQR/57

TEST REPORT

Report No. NABL ULR No.	: WCS230405A : TC1122523000000045F	Issue Date	3	17.04.2023
Name of the Client	National Aluminium Company L	imited		
Address	: Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location	: Gopibalabpur Village			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	-1	06.04.2023
Sampling Plan & Method	: WCS/OSP/SAMP (AIR)	Sample ID No		WCS0423A11
Environmental Condition	: Clear Weather	Date of Receiving	1	08.04.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	2	1 No.
Date of Testing	: 08.04.2023 to 10.04.2023	Sample Condition		Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg'm1	205	500	15-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM10)	µg/m³	84.02	150	1S-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2).	$\mu\underline{a}'m^3$	5.3	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	$\mu g^{\prime}m^{\delta}$	15.3	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg/m ³	45.88	**	15-5182 (Part-24) 2019

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Reviewed by (Mr. Bijaya Kumar Chahataray) Authorized Signatory

(Mr. Pradeept Mohapatra)

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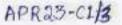
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TEST REPORT

WCS/LQR/57

WCS230405C Report No. ÷ Issue Date 17.04.2023 NABL ULR No. TC1122523000000045F Name of the Client National Aluminium Company Limited ÷. Address : Smelter & Power (S&P) Complex Angul-759145, Odisha Sampling Location Near weigh Bridge Sample Description Ambient Air Quality Monitoring Date of Sampling 05.04.2023 Sampling Plan & Method WCS/QSP/SAMP (AIR) Sample ID No WCS0423A13 Environmental Condition Clear Weather Date of Receiving 08.04.2023 ÷ Sample Collected by WCS Laboratory Quantity of Sample : 2 1 No. Date of Testing 08.04.2023 to 10.04.2023 Sample Condition Good ÷

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ¹	325	500	1S-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMm.)	µg/m ¹	92.03	150	1S-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m ³	7.8	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg/m ¹	24.5	120	IS-5182 (Part-6) 2006 RA 2017
Fire Particulate Matter (PM23)	µg/m ⁴	53.18	-	IS-5182 (Part-24) 2019

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(Mr. Bijaya Kumar Chahataray)

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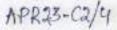
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WCS/LOR/57

TEST REPORT

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Report No.	: WCS230405D	Issue Date	÷.	17.04.2023
NABL ULR No.	: TC1122523000000045F			
Name of the Client	: National Aluminium Company L	imited		
Address	: Smelter & Power (S&P) Complex			
	Angul-759145, Odisha			
Sampling Location	: Near settling Pond			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	1	05.04.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	-	WCS0423A14
Environmental Condition	: Clear Weather	Date of Receiving	4	08.04.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample		1 No.
Date of Testing	: 08.04.2023 to 10.04.2023	Sample Condition		Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m²	370	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMm)	µg/m²	96.99	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2)	µg/m ³	6.3	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg/m ³	20.8	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM23)	µg/m ³	57.00		18-5182 (Part-24) 2019

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APR23-B1/5



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN_U725010R2010PTC01651



WCS/LQR/57

TEST REPORT

Report No. NABL ULR No.	WCS230414B TC1122523000000054F	Issue Date		26.04.2023
Name of the Client	National Aluminium Company L	imited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Sampling Location	: Colony area			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	1	21.04.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	4	WCS0423A26
Environmental Condition	: Clear Weather	Date of Receiving	3	24.04.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	÷.	1 No.
Date of Testing	: 24.04.2023 to 26.04.2023	Sample Condition	4	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ³	210	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM10.)	µg/m³	81.6	150	IS-5182 (Part-23) 2006 RA 2017
Sulphar Dioxide (SO2)	µg/m ³	4.2	120	1S-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO:)	µg/m ³	13.4	120	1S-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg/m ³	46.9		IS-5182 (Part-24) 2019

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(Mr. Pradeept Mohapatra)

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WCS/LQR/57

TEST REPORT

Report No. NABL ULR No.	: WCS230414A : TC1122523000000054F	Issue Date	4	26.04.2023
Name of the Client	: National Aluminium Company I	Limited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Sampling Location	: Gopibalabpur Village			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	3	21.04.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0423A25
Environmental Condition	: Clear Weather	Date of Receiving	1	24.04.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	4	1 No.
Date of Testing	: 24.04.2023 to 26.04.2023	Sample Condition	1	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ³	186	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMin)	µg/m³	80.4	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2)	µg/m ³	5.1	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg/m³	16.4	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM23)	µg/m ³	44.4	-	IS-5182 (Part-24) 2019

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(Mr. Bijaya Kumar Chahataray)

Authorized Signatory (Mr. Pradeept Mohapatra)

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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 21AADCT4043NIZE CIN U725010R2010PTC011651



WCS/LQR/57

TEST REPORT

Report No.	: WCS230414C	Issue Date	3	26.04.2023
NABL ULR No.	: TC1122523000000054F			
. Name of the Client	: National Aluminium Company	Limited		
Address	: Smelter & Power (S&P) Complet	x		
	Angul-759145, Odisha			
Sampling Location	: Near weigh Bridge			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	÷.	20.04.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0423A27
Environmental Condition	: Clear Weather	Date of Receiving	1	24.04.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	÷.	1 No.
Date of Testing	: 24.04.2023 to 26.04.2023	Sample Condition	12	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	$\mu g/m^3$	312	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM16)	µg/m ¹	84.5	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m³	7.4	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg/m ³	22.8	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg/m ³	50.5		IS-5182 (Part-24) 2019

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(Mr. Bijaya Kumar Chahataray)

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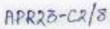
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WCS/LOR/57

TEST REPORT

: WCS230414D : TC1122523000000054F	Issue Date	4	26.04.2023
	imited		
: Smelter & Power (S&P) Complex Angul-759145, Odisha			
: Near settling Pond			
: Ambient Air Quality Monitoring	Date of Sampling	1	20.04.2023
: WCS/QSP/SAMP (AIR)	Sample ID No	4	WCS0423A28
: Clear Weather	Date of Receiving	1	24.04.2023
: WCS Laboratory	Quantity of Sample	1	1 No.
: 24.04.2023 to 26.04.2023	Sample Condition	4	Good
	 TC1122523000000054F National Aluminium Company L Smelter & Power (S&P) Complex Angul-759145, Odisha Near settling Pond Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Clear Weather WCS Laboratory 	 TC1122523000000054F National Aluminium Company Limited Smelter & Power (S&P) Complex Angul-759145, Odisha Near settling Pond Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) WCS/QSP/SAMP (AIR) Clear Weather Date of Receiving WCS Laboratory Quantity of Sample 	 TC1122523000000054F National Aluminium Company Limited Smelter & Power (S&P) Complex Angul-759145, Odisha Near settling Pond Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) WCS/QSP/SAMP (AIR) Clear Weather Date of Receiving WCS Laboratory Quantity of Sample 1

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ³	336	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM10-)	µg/m ³	89.7	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m ³	6.1	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg/m ²	18,4	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM2.5)	µg/m ³	54.1	**	1S-5182 (Part-24) 2019

Reviewed by

(Mr. Bijaya Kumar Chahataray)

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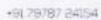
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WCS/LQR/57

TEST REPORT

Report No. NABL ULR No.	: WCS230522B : TC1122523000000061F	Issue Date	: 10.05.2023
Name of the Client	: National Aluminium Company	Limited	
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 	×	
Sampling Location	: Colony Area		
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	: 04.05.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	: WCS0523A12
Environmental Condition	: Clear Weather	Date of Receiving	: 08.05.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	: 1 No.
Date of Testing	: 09.05.2023 to 10.05.2023	Sample Condition	: Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m	202	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM ₁₀)	$\mu g/m^3$	79,4	150	IS-5182 (Part-23) 2005 RA 2017
Sulphur Dioxide (SO2)	µg/m ³	4.68	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	µg/m ³	13.91	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM _{2.5})	µg/m ¹	44.82		IS-5182 (Part-24) 2019

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WCS/LQR/57

TEST REPORT

Report No. NABL ULR No.	: WCS230522A : TC1122523000000061F	Issue Date	5	10.05.2023
Name of the Client	: National Aluminium Company I	imited		
Address	: Smelter & Power (S&P) Complex			
and the second second second	Angul-759145, Odisha			
Sampling Location	: Gopiballavpur Village			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	5	05.05.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0523A11
Environmental Condition	: Clear Weather	Date of Receiving	1	08.05.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	2	1 No.
Date of Testing	: 09.05.2023 to 10.05.2023	Sample Condition	1	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ³	180	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM ₁₀)	µg/m ⁷	73.2	150	1S-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO3)	µg/m ¹	5.5	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg/m ³	16.63	120	15-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µgim ³	42.65		IS-5182 (Part-24) 2019

Charlatery Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory

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(Mr. Pradeept Mohapatra)

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WCS/LQR/57

TEST REPORT

Report No.	: WCS230522C	Issue Date	: 10.05.2023	
NABL ULR No.	; TC112252300000061F			
Name of the Client	: National Aluminium Company L	imited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Sampling Location	: Near Weigh Bridge			
Sample Description	Ambient Air Quality Monitoring	Date of Sampling	: 05.05.2023	
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	: WCS0523A13	
Environmental Condition	: Clear Weather	Date of Receiving	: 08.05.2023	
Sample Collected by	: WCS Laboratory	Quantity of Sample	: 1 No.	
Date of Testing	: 09.05.2023 to 10.05.2023	Sample Condition	: Good	

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ¹	309	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM ₁₀)	$\mu g/m^3$	92.03	150	1S-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m ³	7.18	120	1S-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg'm ³	21.87	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg'm3	50.75		IS-5182 (Part-24) 2019

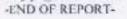
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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE



WCS/LQR/57

TEST REPORT

CIN U725010R2010PTC011651

Report No. NABL ULR No.	: WCS230522D : TC1122523000000061F	Issue Date	\$	10.05.2023	
Name of the Client	: National Aluminium Company L	imited			
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 				
Sampling Location	: Near settling Pond				
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	1	04.05.2023	
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	12	WCS0523A14	
Environmental Condition	: Clear Weather	Date of Receiving	1	08.05.2023	
Sample Collected by	; WCS Laboratory	Quantity of Sample	1	1 No.	
Date of Testing	: 09.05.2023 to 10.05.2023	Sample Condition	1	Good	

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	pig/m	327	500	15-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM10)	µg/m ⁷	90.4	150	4S-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m ³	6.29	120	IS+5182 (Part+2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	µg/m ²	18.9	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg/m ¹	53.36		IS-5182 (Part-24) 2019

Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory (Mr. Pradeept Mohapatra)

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TC-11225

WCS/LQR/37

TEST REPORT

CIN U725010R2010PTC011651

Report No. NABL ULR No.	: WCS230518B : TC1122523000000076F	Issue Date	1	27.05.2023	
Name of the Client	: National Aluminium Con	npany Limited			
Address	 Smelter & Power (S&P) C Angul-759145, Odisha 				
Sampling Location	: Colony Area				
Sample Description	: Ambient Air Quality Moni	toring Date of Sampling	- 23	23.05.2023	
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0523A29	
Environmental Condition	: Clear Weather	Date of Receiving	÷	25.05.2023	
Sample Collected by	: WCS Laboratory	Quantity of Sample		1 No.	
Date of Testing	: 25.05.2023 to 27.05.2023	Sample Condition	+	Good	

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m [†]	202	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM ₁₀)	$\mu g/m^1$	78.6	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m ¹	5.13	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	µg/m ¹	12.73	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM2.8)	µg/m ¹	42.23		15-5182 (Pan-24) 2019

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MAY23-32/44



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO. 21AADCT4043NIZE

CIN U725010R2010PTC011651



Authorized Signatory

(Mr. Pradeept Mohaparta)-

Shubaneswat

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WCS/LQR/57

TEST REPORT

Report No.	1	WCS230518A	Issue Date	8	27.05.2023	
NABL ULR No.	1	TC112252300000076F				
Name of the Client	1.	National Aluminium Company L	imited			
Address	;	Smelter & Power (S&P) Complex Angul-759145, Odisha				
Sampling Location	- 61	Gopiballaypur Village				
Sample Description		Ambient Air Quality Monitoring	Date of Sampling	12	23.05.2023	
Sampling Plan & Method	12	WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0523A28	
Environmental Condition	18	Clear Weather	Date of Receiving	1	25.05.2023	
Sample Collected by	3	WCS Laboratory	Quantity of Sample	5	1 No.	
Date of Testing	3	25.05.2023 to 27.05.2023	Sample Condition	¥.	Good	

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ³	182	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM ₁₁)	µg/m ¹	72.8	150	18-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m ³	5.70	120	1S-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg/m ³	17.19	120	1S-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM21)	µg/m ³	40.04		IS-5182 (Part-24) 2019

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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC011651



TEST REPORT

WCS/LQR/57

Report No. WCS230518C Issue Date : 27.05.2023 NABL ULR No. TC112252300000076F Name of the Client : National Aluminium Company Limited Address : Smelter & Power (S&P) Complex Angul-759145, Odisha Sampling Location Near Weigh Bridge Sample Description Ambient Air Quality Monitoring Date of Sampling : 22.05.2023 Sampling Plan & Method WCS/QSP/SAMP (AIR) Sample ID No WCS0523A30 Environmental Condition : Clear Weather Date of Receiving : 25.05.2023 Sample Collected by WCS Laboratory Quantity of Sample : 1 No. 1 Date of Testing 25.05.2023 to 27.05.2023 Sample Condition : Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ¹	310	500	1S-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM ₁₀)	µg/m ³	91.93	1.50	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO3)	μg/m ³	6.65	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	µg/m ¹	21.98	120	15-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg/m ⁴	48.66		1S-5182 (Part-24) 2019

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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NIZE CIN: U725010R2010PTC011651



TEST REPORT

WCS/LOR/57

Date of Testing

Report No. NABL ULR No.	10.00	WCS230518D TC1122523000000076F	Issue Date	1	27.05.2023	
Name of the Client	1	National Aluminium Company L	imited			
Address	4	Smelter & Power (S&P) Complex Angul-759145, Odisha				
Sampling Location	125	Near settling Pond				
Sample Description	2	Ambient Air Quality Monitoring	Date of Sampling	÷	22.05.2023	
Sampling Plan & Method	- 31	WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0523A31	
Environmental Condition	1	Clear Weather	Date of Receiving	5	25.05.2023	
Sample Collected by		WCS Laboratory	Quantity of Sample	1	1 No.	
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Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ³	330	500	1S-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMin)	$\mu g'm^{1}$	88.1	150	1S-5182 (Part-23) 2006 RA 2017
Sulphur Diexide (SO ₂)	µg/m ¹	5.97	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	µg/m ^t	16.65	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg/m ⁸	52.73		1S-5182 (Part-24) 2019

atter B Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory (Mr. Pradeept Mohapatra)

Bhubaneswar

Sample Condition : Good

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JUN23-B1/17

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO_2LAADCT4043NIZE CIN_U725010R2010PTC011651

Sample Condition



TEST REPORT

Repairt No. NA BL ULR No.	1	WCS230610B TC1122523000000084F	Issue Date	35	24.06.2023
Narte of the Client	1	National Aluminium Company L	imited		
Address	1	Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location	12	Colony Area			
Sample Description	12	Ambient Air Quality Monitoring	Date of Sampling	43	05.06.2023
Sampling Plan & Method	14	WCS/QSP/SAMP (AIR)	Sample ID No		WCS0623A18B
Environmental Condition	1	Clear Weather	Date of Receiving	1	08.06.2023
Sample Collected by	1	WCS Laboratory	Quantity of Sample	1	1 No.

: 08.06.2023 to 10.06.2023

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µgim ¹	210	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM10-)	ug/m ³	80.2	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2)	µg/m³	6.9	120	IS-5182 (Part-2) 2001 RA 2017
Nitropae Oxides (NOc)	µg/m²	14.2	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM15)	µg/m ³	44.9		IS-5182 (Part-24) 2019

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(Mr. Bijaya Kumar Chahataray)

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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 2LAADCT4043NIZE CIN: U725010R2010PTC011651



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TEST REPORT

Repst No. NA EL ULR No.	: WCS230610A : TC1122523000000084F	Issue Date	14.00	24.06.2023
Narra of the Client	: National Aluminium Company L	imited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Sampling Location	: Gopiballavpur Village			
Santhle Description	: Ambient Air Quality Monitoring	Date of Sampling		06.06.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	2	WCS0623A18A
Environmental Condition	: Clear Weather	Date of Receiving	3	08.06.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample		1 No.
Date of Testing	: 08.06.2023 to 10.06.2023	Sample Condition	2	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method	
Suspended Particulate Matter (SPM)	µg'm ¹	166	500	IS-5182 (Part-4) 1999 RA 2019	
Respirable Suspended Particulate Matter (PM)()	ug/m²	74	150	IS-5182 (Part-23) 2006 RA 2017	
Sulphur Dioxide (SO:)	µg/m ²	5.8	120	IS-5182 (Part-2) 2001 RA 2017	
Nitrogen Oxides (NO ₁)	µg/m ³	17.6	120	(S-5182 (Part-6) 2006 RA 2017	
Fine Particulate Matter (PM2.5)	µg/m ³	43.3		(S-5182 (Part-24) 2019	

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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC01165L



WCSLQR/57

TEST REPORT

Report No. NA BL ULR No.	: WC\$230612C : TC1122523000000086F	Issue Date	(ł	24.06.2023
Name of the Client	: National Aluminium Company L	imited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Sampling Location	Near Weigh Bridge			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	1	20.06.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No		WCS0623A31
Environmental Condition	: Clear Weather	Date of Receiving	4	22.06.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	3	1 No.
Date of Testing	: 22.06.2023 to 24.06.2023	Sample Condition		Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ⁸	302	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMin)	ug m ⁴	90	150	IS-5182 (Part-23) 2006 RA 2017
Salphar Dioxide (SO ₁)	ug/m ²	6.3	120	18-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO1)	µg/m ³	20.1	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg/m ³	47.5	(2)	(S-5182 (Part-24) 2019

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WCMLQR/57

TEST REPORT

Rep ^{ort} No. NABL ULR No.	: WC\$230610D : TC1122523000000084F	Issue Date	1.3	24.06.2023
Narre of the Client	: National Aluminium Company I	Limited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
San ^{*pling} Location	: Near settling Pond			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	: 1	05.06.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	: 1	WCS0623A18D
Environmental Condition	: Clear Weather	Date of Receiving	÷)	08.06.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	2.1	I No.
Date of Testing	: 08.06.2023 to 10.06.2023	Sample Condition	2.1	Good

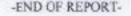
Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg'm ⁷	315	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM11)	hB,m2	91.2	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	pg/m ¹	7.2	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO5)	µg/m'	19.7	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM21)	pg/m	53.9	**	1S-5182 (Part-24) 2019

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JUN23-B1/21

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC011651



TEST REPORT

Rep4rt No. WCS230612B Issue Date : 24.06.2023 ÷ NAEL ULR No. TC112252300000086F Nante of the Client National Aluminium Company Limited Address Smelter & Power (S&P) Complex Angul-759145, Odisha Sampling Location : Colony Area Sample Description Ambient Air Quality Monitoring 19.06.2023 Date of Sampling 5 . Sampling Plan & Method WCS/QSP/SAMP (AIR) Sample ID No WCS0623A30 4 Environmental Condition Clear Weather Date of Receiving 22.06.2023 Sample Collected by Ouantity of Sample : 8 WCS Laboratory I No. Date of Testing 22.06.2023 to 24.06.2023 Sample Condition Good

Unit	Result	Standard as per CTO No-2938	Test Method
µg'm ¹	196	500	IS-5182 (Part-4) 1999 RA 2019
$\mu g^i m^i$	79,2	150	IS-5182 (Part-23) 2006 RA 2017
µg/m1	5	120	IS-5182 (Part-2) 2001 RA 2017
jag/m ⁴	13	120	IS-5182 (Part-6) 2006 RA 2017
µg/m1	43.2		15-5182 (Part-24) 2019
	µgim ⁸ µgim ⁸ µgim ¹ µgim ¹	μg/m ¹ 196 μg/m ¹ 79,2 μg/m ¹ 5 μg/m ¹ 13	Unit Result CTO N6-2938 µg'm ¹ 196 500 µg'm ¹ 79.2 150 µg'm ¹ 5 120 µg'm ¹ 13 120

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WC=LOR/57

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JUN23-B2/22



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NIZE CIN U7250LOR20L0PTC011651



WCSLQR/57

TEST REPORT

Rep∮ff No. NAIBI, ULR No.	: WCS230612A : TC1122523000000086F	Issue Date	9	24.06.2023
Nante of the Client	: National Aluminium Company L	imited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Sampling Location	: Gopiballavpur Village			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	:	20.06.2023
Santpling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0623A29
Environmental Condition	: Clear Weather	Date of Receiving	4	22.06.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	1	1 No.
Date of Testing	: 22.06.2023 to 24.06.2023	Sample Condition		Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ²	175	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMax.)	$\mu g/m^{\gamma}$	73.1	150	18-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO3)	ag/m ^T	5.8	120	15-5182 (Part-2) 2001 RA 2017
Nurogen Oxides (NO2)	µg/m ³	18.7	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM21)	µg/m ⁵	42.4		IS-5182 (Part-24) 2019

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WCS/LOR/57

TEST REPORT

Report No. NA BL ULR No.	: WCS230610C : TC112252300000084F	Issue Date	8	24.06.2023
Name of the Client	: National Aluminium Company I			
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Santoling Location	: Near Weigh Bridge			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	40	06.06.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0623A18C
Env#onmental Condition	: Clear Weather	Date of Receiving	2	08.06.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	\$	1 No.
Date of Testing	: 08.06.2023 to 10.06.2023	Sample Condition	÷	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ²	298	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Motter (PMil)	µg/m ³	93	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2)	ug m'	7.4	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg·m ³	22.5	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PMz a)	ug m ³	51.2		IS-5182 (Part-24) 2019

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JUN23-C2/24





TEST REPORT

: WCS230612D	Issue Date	÷	24.06.2023	
	Limited			
 Smelter & Power (S&P) Comple Angul-759145, Odisha 	:x			
: Near settling Pond				
: Ambient Air Quality Monitoring	Date of Sampling	38	19.06.2023	
: WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0623A32	
: Clear Weather	Date of Receiving	12	22.06.2023	
; WCS Laboratory	Quantity of Sample	4	1 No.	
: 22.06.2023 to 24.06.2023	Sample Condition	1	Good	
	 TC112252300000086F National Aluminium Company Smelter & Power (S&P) Comple Angul-759145, Odisha Near settling Pond Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Clear Weather WCS Laboratory 	: TC1122523000000086F : National Aluminium Company Limited : Smelter & Power (S&P) Complex Angul-759145, Odisha : Near settling Pond : Ambient Air Quality Monitoring Date of Sampling : WCS/QSP/SAMP (AIR) Sample ID No : Clear Weather Date of Receiving : WCS Laboratory Quantity of Sample	: TC1122523000000086F : National Aluminium Company Limited : Smelter & Power (S&P) Complex Angul-759145, Odisha : Near settling Pond : Ambient Air Quality Monitoring Date of Sampling : WCS/QSP/SAMP (AIR) Sample iD No : Ciear Weather Date of Receiving : WCS Laboratory Quantity of Sample :	 TC1122523000000086F National Aluminium Company Limited Smelter & Power (S&P) Complex Angul-759145, Odisha Near settling Pond Ambient Air Quality Monitoring Date of Sampling : 19.06.2023 WCS/QSP/SAMP (AIR) Sample ID No : WCS0623A32 Clear Weather Date of Receiving : 22.06.2023 WCS Laboratory Quantity of Sample : 1 No.

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	ug/m ³	325	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMin)	µg/m ¹	86.9	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2)	µg.m ¹	6.9	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	µg/m ³	16,1	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	µg/m ¹	51.5	**	IS+5182 (Part+24) 2019

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JUL23-B1/25

WCS VIETING Consultancy Services		SERVICES PRIVATE (TESTING LABOR 3ST NO: 21AADCT4 N: U725010R2010P	ATORY) 043NIZE
WC %LQR/57	TEST RI	EPORT	TC-11225
Rep ^{oin} No. NA BLULR No. Nartie of the Client Address	WCS230704B TC1122523000000109F National Aluminium Company I Smelter & Power (S&P) Complex Angul-759145, Odisha	Issue Date Limited	: 08.07.2023
Sampling Location Sample Description Sampling Plan & Method Environmental Condition	Colony Area Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Clear Weather	Date of Sampling Sample ID No Date of Receiving	: WCS07.2013 : WCS0723A12 : 07.07.2023

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	ugim	305	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM10.)	µg/m ¹	82.1	150	IS-5182 (Part-23) 2006 RA, 2017
Sulphur Dioxide (SO ₂)	"注意"四"	5.8	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	ug m ³	17.5	120	IS+5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM23)	- HS.m.	46.1		IS-5182 (Pam-24) 2019

Quantity of Sample :

Sample Condition

Reviewed by

(Mr. Bijaya Kumar Chahataray)

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WCS Laboratory

07.07.2023 to 08.07.2023

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(Mr. Pradeept Mohapatra)

N.B.:

Sample Collected by

Date of Testing

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JUL23-B2/26



Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	$\mu g/m^3$	210	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM)	$\mu g/m^3$	76.4	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₅)	ug/m ³	5.6	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	µg/m ²	lo	120	15-5482 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM ₂₃)	ug/m ³	41.6		1S-5182 (Part-24) 2019

Reviewed by (Mr. Bijaya Kumar Chahataray)

Authorized Signatory

(Mr. Pradeept Mohapatra)

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WCS		SERVICES PRIVATE LIMITED (TESTING LABORATORY) SST NO 21AADCT4043NIZE & U725010R2010PTC011651
WCNLQR:57	TEST RE	A STATE OF A
Reprint No. NA BL ULR No. Name of the Client Addless	 WCS230704C TC1122523000000109F National Aluminium Company L Smelter & Power (S&P) Complex Angul-759145, Odisha 	Issue Date : 08.07.2023
Sample Description Sample Description Sample Plan & Method Environmental Condition Sample Collected by Date of Testing	Mont Weigh Bridge Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Clear Weather WCS Laboratory 07.07.2023 to 08.07.2023	Date of Sampling:04.07.2023Sample ID No:WCS0723A13Date of Receiving:07.07.2023Quantity of Sample:1 No.Sample Condition:Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Saspended Particulate Matter (SPM)	µg/m ⁴	315	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMag.)	µg/m*	94.6	1.50	IS-5182 (Part-23) 2006 RA 2017
Saiphur Dioxida (SO ₂)	ug/m ²	7.1	120	1S-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	pem ¹	18.8	120	15-5182 (Pari-6) 2006 RA 2017
Fine Purticulate Matter (PM2x)	µgim ¹	45.7		1S-5182 (Part-24) 2019

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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NLZE CIN: U725010R2010PTC011651 TC-11228 WC3LOR ST TEST REPORT Report No. WCS230704D Issue Date : 08.07.2023 NA EL ULR No. TC1122523000000109F Nar#e of the Client National Aluminium Company Limited Addfess. Smelter & Power (S&P) Complex Angul-759145. Odisha San pling Location Near rettling Pond San Die Description Date of Sampling 4.67 2023 WCS0723A14 Sampling Plan & Method WCS/OSP/SAMP (AIR) Sample ID No

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
suspended Particulate Matter (SPM)	ug m'	318	500	IS-5182 (Part-4) 1999 R.A. 2019
Respirable Saspended Particulate Matter (PM ₁₀)	hð.m.,	89.2	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2)	µg/m ⁸	7.1	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	µg/m ²	17.4	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM23)	µg/m ^T	54,2		(S-5182 (Part-24) 2019

Date of Receiving

Sample Condition

Quantity of Sample :

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Environmental Condition

Sample Collected by

Date of Testing

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Clear Weather

WCS Laboratory

07.07.2023 to 08.07.2023

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JUL23-B1/29



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WCS/LQR/57

TEST REPORT

Report No. NABL ULR No.	: WCS230716B : TC1122523000000121F	Issue Date	: 22.07.2023	
Name of the Client	National Aluminium Company	Limited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Sampling Location	: Colony Area			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	17,07,2023	
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	: WCS0723A26	
Environmental Condition	: Medium rain	Date of Receiving	: 20.07.2023	
Sample Collected by	: WCS Laboratory	Quantity of Sample	1 No.	
Date of Testing	: 21.07.2023 to 22.07.2023	Sample Condition	Good	

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ¹	135.0	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMm)	$\mu g/m^3$	42.3	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m ²	5.6	120	15-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	pig/m ⁷	16.1	130	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM23)	jig/m?	26.4	-	15-5182 (Part-24) 2019

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WCS230716A

Medium rain

WCS Laboratory



Report No	S
NABL UL	
Name of th	te Client
Address	

Sampling Location Sample Description Sampling Plan & Method Environmental Condition Sample Collected by Date of Testing

Issue Date 22.07.2023 TC1122523000000121F National Aluminium Company Limited Smelter & Power (S&P) Complex Angul-759145, Odisha **Gopiballaypur** Village Date of Sampling WCS/QSP/SAMP (AIR) WCS0723A25 Sample ID No Date of Receiving 20.07 2023 Quantity of Sample : 1 No. 21.07.2023 to 22.07.2023 Sample Condition Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg m'	120.0	500	1S-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMin)	µg/m³	40.2	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2)	ng/m ³	5.5	120	IS-5182 (Part-2) 2001 RA 2017
Nitregen Ouldes (NO1)	⁶ m'a4	15,4	1.20	15-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PML5)	ag/m ²	20.0		1S-5182 (Part-24) 2019

Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory

(Mr. Pradeept Mohapatra)

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TEST REPORT

Report No. NABL ULR No.	: WCS230716C : TC1122523000000121F	Issue Date	3	22.07.2023
Name of the Client	: National Aluminium Company	Limited		
Address	: Smelter & Power (S&P) Complex Angul-759145, Odishu			
Sampling Location	: Nuar Weigh Bridge			
Sample Description	: Aminiont Air Cuality Monthlying	Date of Sampling	12	18:07 2:011
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	3	WCS0723A27
Environmental Condition	: Medium rain	Date of Receiving	1	20.07.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	1	I No.
Date of Testing	: 21.07.2033 to 22.07.2023	Sample Condition	4	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ¹	142.0	500	15-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM10-)	µg/m ³	48.6	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO:)	µg/m ³	6.2	120	1S-5182 (Part-2) 2001 RA 2017
Nitrogan Oxides (NO2)	ug/m ¹	15.9	120	18-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM24)	µg/m ⁷	32.3	**	1S-5182 (Part-24) 2019

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WCS/LQR/57

TEST REPORT

Report No.	: WCS230716D	Issue Date	: 22.07.2023
NABL ULR No.	: TC1122523000000121F		
Name of the Client	: National Aluminium Company	y Limited	
Address	: Smelter & Power (S&P) Compl	lex	
	Angul-759145, Odisha		
Sampling Location	: Near Settling Pond.		
Sample Description	: Ambient Air Quality Monitorin	Date of Sampling	17.07.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	: WCS0723A28
Environmental Condition	: Medium rain	Date of Receiving	: 20.07,2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	: 1 No.

Date of Testing

: 21.07.2023 to 22.07.2023

Sample Condition : Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	12/m ³	145	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMar.)	µg/m ³	54.0	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur D(oxide (SO ₂)	µg/m ³	6.3	120	1S-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NOE)	µg/m ⁷	16.2	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM _{2.8})	µg/m ³	36.0		1S-5182 (Part-24) 2019

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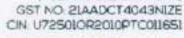
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WCS/LQR/57

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TEST REPORT

Report No. NABL ULR No.	10.0	WC5230809B TC1122523000000131F	Issae Date	1	16.08.2023
Name of the Client Address	an an	National Aluminium Company L Smelter & Power (S&P) Complex Angul-759145, Odisha	imited		
Sampling Location	1	Colony Area			
Sample Description	4	Ambient Air Quality Monitoring	Date of Sampling	4	07.08.2023
Sampling Plan & Method	18	WCS/QSP/SAMP (AIR)	Sample ID No	-	WCS0823A12
Environmental Condition	1	Medium rain	Date of Receiving	1	10.08.2023
Sample Collected by	T.	WCS Laboratory	Quantity of Sample	:	1 No.
Date of Testing	1	11.08.2023 to 12.08.2023	Sample Condition	ž.	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ¹	146.0	500	1S-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMac)	µg/m ³	44.5	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Diexide (SO2)	µg/m ³	5.7	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	ug/m)	15.7	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PMan)	µg/m ³	27.3		(S-5182 (Part-24) 2019

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(Mr. Bijaya Kumar Chahataray)

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WCS Wood Cardenards		SERVICES PRIVATE (TESTING LABOR IST NO. 21AADCT40 U725010R2010PT	ATORY) DAISNIZE
WCS4LQR/37	TEST RE	PORT	
Report No. NABL ULR No. Name of the Client Address	 WCS230809A TC1122523000000131F National Aluminium Company L Smelter & Power (S&P) Complex Angul-759145, Odisha 	Issue Date inited	: 16.08.2023
Sampling Location Sample Description Sampling Plan & Method Environmental Condition Sample Collected by Date of Testing	Gopiballavpur Village Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Medium rain WCS Laboratory 11.08.2023 to 12.08.2023	Date of Sampling Sample ID No Date of Receiving Quantity of Sample Sample Condition	: 08.08.2023 : WCS0823A11 : 10.08.2023 : 1 No. : Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ¹	132.0	500	IS-3182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMs)	µg/m ³	45.2	150	18-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₁)	µg/m [‡]	5.4	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	jag/in1	14.9	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM23)	µg/m ¹	21.3		18-5182 (Part-24) 2019

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WCS/LOR/57

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TEST REPORT

Report No. NABL ULR No.	đ	WCS230809C TC1122523000000131F	; 16.08.2023		
Name of the Client	1	National Aluminium Company L	imited		
Address	4	Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location		Near Weigh Bridge			
Sample Description	1	Ambient Air Quality Monitoring	Date of Sampling	1	07.08.2023
Sampling Plan & Method	1.5	WCS/QSP/SAMP (AIR)	Sample ID No	12	WCS0823A13
Environmental Condition	4	Medium rain	Date of Receiving	1	10.08.2023
Sample Collected by	12	WCS Laboratory	Quantity of Sample	4	I No.
Date of Testing	1	11.08.2023 to 12.08.2023	Sample Condition	1	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	×8/10 ³	154.0	590	15-5142 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM/#)	All/or1	51.2	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO2)	2.g/m ¹	6.4	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxidea (NOs)	y.g/m ¹	16.4	120	1S-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PMI_4)	. 88/mt	34.1	-	1S-5182 (Part-24) 2019

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AUG23-C2/36

		SERVICES PRIVATE (TESTING LABOR SST NO: 21AADCT4 N: U725010R2010P	ATORY) 043NIZE
WCS/LQR/57	TEST R	EPORT	TC-11225
Report No. NABL ULR No. Name of the Client Address Sampling Location Sample Description Sampling Plan & Method Environmental Condition	 WCS230809D TC1122523000000131F National Aluminium Company I Smelter & Power (S&P) Complex Angul-759145, Odisha Near Settling Pond Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Medium rain 	Issue Date Jimited Date of Sampling Sample ID No Date of Receiving	: 16.08.2023 : 08.08.2023 : WCS0823A14 : 10.08.2023
Sample Collected by Date of Testing	: WCS Laboratory : 11.08.2023 to 12.08.2023	Quantity of Sample Sample Condition	: I No. : Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ^b	162.0	500	15-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMix)	µg/m³	59.3	150	1S-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	µg/m ³	6.8	120	(S-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NOs)	µg/m ³	17.2	120	IS-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM2+)	ug/m ³	38.2		15-5182 (Part-24) 2019

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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO- 21AAD/CT4043NIZE

CN U725010R2010PTC011651

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TEST REPORT

Rothin No. WCS230816B Issue Date : 24.08.2023 NAIL ULR No. TC1122523000000136F Neare of the Client National Alaminium Company Limited Actitiess Smelter & Power (S&P) Complex Angul-759145, Odisha Sampling Location : Colony Area Sattl)le Description Ambient Air Quality Monitoring Date of Sampling 17.08.2023 Sampling Plan & Method WCS/QSP/SAMP (AIR) WCS0823A26 Sample ID No Erry conmental Condition Date of Receiving : 21.08.2023 Medium rain Sample Collected by WCS Laboratory Quantity of Sample : 1 No. Dotte of Testing Sample Condition : Good 21.08.2023 to 22.08.2023

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	ug/m	132.0	500	IS-5182 (Part-4) 1999 RA 2019
Repirable Suspended Particulate Matter (PM10.)	µgas [±]	41.6	150	IS-5182 (Part-23) 2006 RA 2017
Sulting Dioxide (SO ₅)	µg/m ³	5.0	120	15-5182 (Part-2) 2001 RA 2017
Nitrogen Oxiifes (NO2)	µg/m ²	15.0	120	IS-5182 (Part-6) 2006 RA 2017
Flint Particulate Matter (PM2-0	µg/m ³	25.2		18-5182 (Part-24) 2019
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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO PLAADCT4043NIZE CIN U725010R2010PTC011651



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TEST REPORT

Rapit No. NAU, ULR No. Nath of the Client Adless		WCS230816A TC1122523000000136F National Aluminium Company L Smelter & Power (S&P) Complex Angul-759145, Odisha	Issue Date		24.08.2023
Saturiting Location		Gopiballavpur Village			
Sample Description	1.1	Ambient Air Quality Monitoring	Date of Sampling	9	18.08.2023
Sampling Plan & Method	- 11	WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0823A25
Environmental Condition	1.5	Medium rain	Date of Receiving	1	21.08.2023
Samile Collected by	- 17	WCS Laboratory	Quantity of Sample	1	1 No.
Duttor Testing	120	21.08.2023 to 22.98.2023	Sample Condition		Good

Unit	Result	Standard as per CTO No-2938	Test Method
µg/m²	126.0	500	IS-5182 (Part-4) 1999 RA 2019
$\mu g/m^2$	39.8	150	1S-5182 (Part-23) 2006 RA 2017
µg/m [†]	5.2	120	IS-5182 (Part-2) 2001 RA 2017
jug/m²	14.8	120	IS-5182 (Part-6) 2006 RA 2017
ug/m²	22.0	+	IS-5182 (Part-24) 2019
	pg/m ² pg/m ³ pg/m ³ pg/m ³	μg/m² 126.0 μg/m² 30.8 μg/m² 35.2 μg/m² 14.8	Chil Result CTO No-2938 µg/m³ 126.0 500 µg/m³ 39.8 150 µg/m³ 5.2 120 µg/m³ 14.8 120

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(Mr. Bijaya Kumar Chahataray)

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TEST REPORT

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED

(TESTING LABORATORY) GST NO 21AADCT4043NIZE CIN U725010R2010PTC011651

REPAT No.	: WCS230816C	Issue Date	4	24.08.2023	
NABLULR No.	: TC1122523000000136F				
Name of the Client	: National Aluminium Company L	imited			
Address	: Smelter & Power (S&P) Complex				
	Angul-759145, Odisha				
Sampling Location	Near Weigh Bridge				
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	1	18.08.2023	
Sampling Plan & Method	WCS/QSP/SAMP (AIR)	Sample ID No	4	WCS0823A27	
Environmental Condition	Medium rain	Date of Receiving	-	21.08.2023	
Sample Collected by	WCS Laboratory	Quantity of Sample		I No.	
Date of Testing	21.08.2023 to 22.08.2023	Sample Condition	1	Good	

Parameter	Unit	Result	Standard as per (TO No-2938	Test Method
Suspinded Particulate Matter (SPM)	HE/00 ²	165.0	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMin)	ug/m ¹	53,4	150	(5-5182 (Part-23) 2006 RA 2017
Sulphir Dioxide (SO2)	µg/m ³	5.8	120	(S-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	pig/m ¹	16.2	120	1S-5182 (Pait-6) 2006 RA 2017
Fine Particulate Matter (PM2+)	ug m ¹	36.5	=	15-5182 (Pag-24) 2019

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Reviewed by (Mr. Bijaya Kumar Chahataray)

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AUG23-C2/40

W CELOR 57

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 20AADCT4043NIZE CIN U725010R2010PTC011651



TEST REPORT

ReTht No. WC\$230816D : 24.08.2023 Issue Date N. NEL ULR No. TC1122523000000136F Nattle of the Client. National Aluminium Company Limited Addess Smelter & Power (S&P) Complex Angul-759145, Odiska Sampling Location Near Settling Pond Sample Description Ambient Air Quality Monitoring Date of Sampling 17:08.2023 Sanoling Plan & Method WCS/QSP/SAMP (AIR) ÷ Sample ID No. WCS0823A28 : 21.08.2023 Environmental Condition Medium rain Date of Receiving 2 Sample Collected by WCS Laboratory Quantity of Sample : 1 No. ÷ 21.08/2023 to 22.08/2023 Date of Testing Sample Condition : Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
suspended Particulate Matter (SPM)	agim	156.0	500	15-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMac)	µg/m ³	53,4	150	IS-5182 (Part-23) 2006 RA 2017
hulphur Disside (SO2)	µg/m ³	6,1	120	IS-5182 (Part-2) 2001 RA 2017
Vitrogen Oxides (NO ₅)	jug/m ¹	17:0	120	IS-5182 (Part-6) 2006 RA 2017
Fine Purticulate Matter (PM23)	ug/m ¹	37.8	-	IS-5182 (Part-24) 2019

Phahatam Reviewed by

(Mr. Bijaya Kumar Chahataray)

N.B.:

Authorized Signatory (Mr. Pradeept Mohapatra)



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SEP 23-B1/41



Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	Jug/m3	138.0	500	15+5182 (Part-4) 1999 RA 2010
Respirable Suspended Particulate Matter (PMLs)	ng/m ²	43.8	150	15-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SOs)	pgm1	5.2	120	IS-5182 (Purt-2) 2001 RA 2017
Nitrogen Oxides (NGg)	Hg m ²	14.6	120	15-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PME)	µg/m²	28.1	12	15-5382 (Purt-24) 2019

Reviewed by

(Mr. Bijaya Kumar Chahararay)

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SEP23-B2/42



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NIZE CIN U725010P2010PTC0L1651



WCSLOR 57

TEST REPORT

Report No. NABL ULR No.	1	WCS230915A TC1122523000000154F	Issue Date		13.09.2023
Name of the Client		National Aluminium Company L	imited		
Address	1	Smelter & Power (S&P) Complex Angul-759145, Odishu			
Sampling Location	- 24	Gopiballavpur Village			
Sample Description	- 3	Ambient Air Quality Monitoring	Date of Sampling	10	08.09.2023
Sampling Plan & Method	12	WCS/QSP/SAMP (AIR)	Sample ID No		WCS0921A11
Environmental Condition	1	Medium rain	Date of Receiving	1	09.09.2023
Sample Collected by	1	WCS Laboratory	Quantity of Sample		I No.
Date of Testing	11	11.69.2023 to 13.69.2023	Sample Condition	1	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPSI)	Hgm2	124.0	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Natter (PNL) 1	$\mu g/m^2$	41.0	150	18-5182 (Part-23) 2006 RA 2017
Salphur Dioxide (SO ₁)	µg/m ²	3,0	120	15-5182 (Part-2) 2001 RA 2017
Ninnigen Oxides (NO ₁₁	age and	15.0	120	15-5182 (Part-6) 2006 R/A 2017
Pine Particulate Matter (PM21)	1122 ¹ 11 ²	24.9		IS-5182 (Part-24) 2019

Reviewed by

(Mr. Bijaya Kumar Chahataray)

12.4 Authorized Signatory (Mr. Pradeept Mohapatra)

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WCS	MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 2LAADCT4043NLZE CIN: U7250LOR2010PTC011651					
WCS/LQR/57	TEST	REPORT				
Report No. NABL ULR No. Name of the Client Address	 WCS230915C TC1122523600000154F National Aluminium Company Smelter & Power (S&P) Comple Angal-759145, Odisha 		: 15.09.2023			
Sampling Location Sample Description Sampling Plan & Method Environmental Condition Sample Collected by Date of Testing	 Near Weigh Bridge Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Medium rain WCS Laboratory 11.09.2023 to 13.09.2023 	Date of Sampling Sample ID No Date of Receiving Quantity of Sample Sample Condition	: 08.09.2023 : WCS0923A13 : 09.09.2023 : 1 No. : Good			
Purumeter	Unit Result	Standard as pre-	Test Method			

Purumeter	Unit	Result	Standard as pre CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	pg/m ²	178.0	500	18-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM-+)	µg/m ⁺	55.8	150	1S-5182 (Part-23) 2006 RA 2017
Sulphur Direcide (SO2)	µg/m*	5.4	120	1S-5182 (Part-2) 2001 RA 2017
Nitrigen Oxides (NO2)	µg/m ³	14.8	120	1S-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PMast	µg m ³	38.2	-	15-5182 (Part-24) 2019

Bhalote Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory (Mr. Pradeept Mohapatra) 22.2

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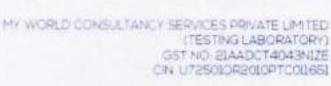
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SEP23-C2/44





TEST REPORT

Report No. WCS210015D Issue Dete 15:09:2023 NABL ULR No. TC1122523000000154F Name of the Client National Aluminium Company Limited Address Smelter & Power (S&P) Complex Angul-759145, Odisha Sampling Location Near Settling Pond. Sample Description Ambient Air Quality Monitoring Date of Sampling 4 07.09.2023 Sampling Plan & Method WCS QSP/SAMP (AIR) Sample ID No. WCS0923A14 Environmental Condition Medium rain Date of Receiving 09.09.2023 Sample Collected by WCS Laboratory Quantity of Sample : 1.No. Date of Testing 11.09.2023 to 13.09.2023 Sample Condition : Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Sampended Particulate Matter (SPM)	µµ'm'	151.0	500	1S-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particular Monte (PMa)	hittun,	52.0	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dicelile (SO ₂)	jugitti"	5.8	120	IS-5182 (Part-2) 2001 RA 2017
Silingan Osidas (NO2)	HETM	16.6	120	18-5182 (Part-6) 2006 RA 2017
Pere Particulate Matter (PMg H	HETT	38.7	-	IS-5182 (Part-24) 2019

Reviewed by

(Mr. Bijaya Kumar Chahataray)

Shehrtetat (Mr. Pradeept Mohaputna)

Authorized Signatory

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WCS LOR 57

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TEST REPORT

1.2	WCS230923B	Issue Date	43	27.09.2023
1.1	TC1122523000000164F			
1	National Aluminium Company L	imited		
	Smelter & Power (S&P) Complex			
1	Colony Area			
10	Ambient Air Quality Monitoring	Date of Sampling	12	22.09.2023
1	WCS/QSP/SAMP (AIR)	Sample ID No	3	WCS0923A16
1	Medium rain	Date of Receiving	1	25.09.2023
14	WCS Laboratory	Quantity of Sample	1	1 No.
11	25.09.2023 to 27.09.2023	Sample Condition	1	Good
	and a second second	 TC1122523000000164F National Aluminium Company L Smelter & Power (S&P) Complex Angul-759145, Odisha Colony Area Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Medium min WCS Laboratory 	 TC1122523000000164F National Aluminium Company Limited Smelter & Power (S&P) Complex Angul-759145, Odisha Colony Area Ambient Air Quality Monitoring WCS/QSP/SAMP (A1R) Wedium rain Date of Receiving WCS Laboratory Quantity of Sample 	1 TC1122523000000164F 1 National Aluminium Company Limited 2 Smelter & Power (S&P) Complex Angul-759145, Odisha 2 Colony Area 2 Ambient Air Quality Monitoring WCS/QSP/SAMP (AIR) Date of Sampling 2 Mediam rain Date of Receiving 3 WCS Laboratory Quantity of Sample

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Mattar (SPM)	jug/m ¹	142.6	500	15-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PMa)	$\mu g/m^3$	42,4	150	IS-5182 (Part-25) 2006 RA 2017
Sulphur Dieside (SO))	ug/m ³	5.4	120	IS-5182 (Part-2) 2001 RA 2017
Nitriges Oxides (NOg)	jug/m ³	14.4	120	1S-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM23)	"µ2/m3	28.9	4	IS-3182 (Part-24) 2019

Reviewed by

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Authorized Signatory (Mr. Diganta Krishna Ray)

SEP23-12/46



WCS/LQR/57

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NIZE CIN U725010R20LOPTCOLI651



TEST REPORT

Report No. NABL ULR No.	: WCS230925A : TC112252300000164F	Issue Date	ŝ	27.09.2023
Name of the Client	National Aluminium Comp	any Limited		
Address	 Smelter & Power (S&P) Con Angul-759145, Odisha 			
Sampling Location	Gopiballavpur Village			
Sample Description	Ambient Air Quality Monito	ring Date of Sampling	\$	22.09.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	1	WCS0923A15
Environmental Condition	: Medium rain	Date of Receiving	1	25.09.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	TH:	1 No.
Date of Testing	25.09.2023 to 27.09.2023	Sample Condition		Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Sespended Particulate Matter (SPM)	ug/m ³	130.0	500	IS-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM)a)	ug/m ³	40.0	150	18-5182 (Part-23) 2006 RA 2017
Solphur Dioxide (SO:)	jug/m ¹	5.6	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO2)	ug/m ³	15.2	120	18-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PNI: s)	ag/m ¹	22:9		18-5182 (Part-24) 2019

Reviewed by

(Mr. Bijaya Kumar Chahataray)

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SEP23-C1/47



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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 21AADCT4043NIZE CIN U725010R20(0PTC01)651



TEST REPORT

Report No. NABL ULR No.	WCS230925C TC1122523000000164F	Issue Date	1	27.09.2023
Name of the Client	: National Aluminium Company I	imited		
Address	 Smelter & Power (S&P) Complex Angul-759145, Odisha 			
Sampling Location	Near Weigh Bridge			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling	10	21.09.2023
Sampling Plan & Method	WCS/QSP/SAMP (AIR)	Sample ID No	10	WCS0923A17
Environmental Condition	: Medium rain	Date of Receiving	:	25.09,2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	1	1 No.
Date of Testing	1 25.09.2023 to 27.09.2023	Sample Condition	1.	Goed

Parameter	Unit	Result	Standard as per CIO No-2938	Test Method
Suspended Particulate Matter (SPM)	µg/m ¹	176.0	500	15-5182 (Part-4) 1999 RA 2019
Respirable Surpended Particulate Matter (PMar)	jug/m ⁻¹	56.8	150	IS-5182 (Part-23) 2006 RA 2017
Sulphur Dioxide (SO ₂)	pug/m ¹	5.6	120	IS-5182 (Part-2) 2001 RA 2017
Nitrigen Oxides (NOg)	jage im T	15.6	120	(\$-5182(Part-6) 2006 RA 2017
Fine Particulum Matter (PML)	peg/m ¹	37,3	-	15-5182 (Part-24) 2019

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Reviewed by (Mr. Bijaya Kumar Chahataray)

Signatory Ast (Mr. Diganta Krishna Ray)

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SEP23- CA/48

WCS/LOR/57

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED. (TESTING LABORATORY) GST NO ELAADCT4043NIZE CIN U725010R2010PTC08651



TEST REPORT

Report No. NABL ULR No.	: WCS230925D : TC1122533000000164F	Issue Date	3	27.09.2023
Name of the Client Address	National Aluminium Company L Smelter & Power (S&P) Complex	imited		
Sampling Location	Angul-759145, Odisha Near Settling Pond			
Sample Description	: Ambient Air Quality Monitoring	Date of Sampling		21.09.2023
Sampling Plan & Method	: WCS/QSP/SAMP (AIR)	Sample ID No	12	WCS0923A18
Environmental Condition	: Medium rain	Date of Receiving	12	25.09.2023
Sample Collected by	: WCS Laboratory	Quantity of Sample	4	1 No.
Date of Testing	: 25.09.2023 to 27.09.2023	Sample Condition	1	Good

Parameter	Unit	Result	Standard as per CTO No-2938	Test Method
Suspended Particulate Matter (SPM)	tig/to1	149.0	500	1S-5182 (Part-4) 1999 RA 2019
Respirable Suspended Particulate Matter (PM:a)	pg/m ²	52.6	150	IS-5182 (Pure-23) 2006 RA 2017
Sulphur Dioxide (80);)	14.07M ³	6.0	120	IS-5182 (Part-2) 2001 RA 2017
Nitrogen Oxides (NO ₂)	p.p/m ¹	16.4	120	1S-5182 (Part-6) 2006 RA 2017
Fine Particulate Matter (PM25)	pip/m ¹	38.5	+	18-5182 (Pure-24) 2019

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(Mr. Bijaya Kumar Chahataray)

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Authorize Signatory

(Mr. Diganta Krishna Ray)



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APR SURFACE-WATER -1

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Good

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Sample Collected by

Date of Testing

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 21AADCT4043NIZE CIN U725010R2010PTC011651

Quantity of Sample

Sample Condition



WCS/LQR/60		TEST RE	PORT		TC-11
Report No.	3	WCS230403	Issue Date	3	17.04.2023
NABL ULR No.	12	TC112252300000043F			
Name of the Client	1	National Aluminium Company Li	imited		
Address		Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location	1	Coal Mining North Side Seepage	Water		
Sample Description	:	Surface Water	Date of Sampling		07.04.2023
Sampling Plan & Method	-	WCS/QSP/SAMP (WATER)	Date of Receiving	1	08.04.2023
Environmental Condition		Temperature 29 °C, Clear Weather	Sample ID No	-	WCS0423W04

WCS Laboratory

10.04.2023 to 15.04.2023

SL. No.	Parameter	Unit	Result	Test Methods
1	Odour	-	Agreeable	IS 3025 (Part-5): 2018
2	Colour	Hazen	<5	18 3025 (Part-4): 2021
3	pH Value	-	7.835	IS 3025 (Part-11): 2022
4	Specific Conductivity	µs/cm	794.1	IS 3025 (Part-14): 2013
5	Dissolve Oxygen as DO	mg/l	0.1	IS 3025 (Part-38): 1989
6	Biochemical Oxygen Demand as BOD	mg/l	< 2	IS 3025 (Part-44): 1993
7	Total Suspended Solid as TSS	mg/l	<5	IS 3025 (Part-17): 2022
8	Oil & Grease	mg/l	<4	APHA 23 rd Ed. (5520-B): 2017
9	Total Hardness as CaCO1	mg/l	256	APHA 23 rd Ed. (2340-C): 2017
10	Chloride as Cl	mg/1	65.98	IS 3025(Part-32): 1988 RA 2019
11	Sulphate as SO4	mg/l	45.93	15 3025 (Part-24, Sec-1): 2022
12	Nitrate as NOy	mg/l	<1	APHA 23 nd Ed. (4500-NO ₂ -B): 2017
13	Fluoride as F	mg/l	< 0.02	APHA 23 st Ed. (4500-F-D): 2017
14	Calcium as Ca	mg/l	33.67	APHA 23rd Ed. (3500-Ca-B): 2017
15	Magnesium as Mg	mg/1	41.8	APHA 23 nd Ed. (3500-Mg-B): 2017
16	Iroo as Fe	mg/l	0.03	IS 3025 (Part-53): 2003
17	Hexavalent Chromium as Cr*8	mg/l	< 0.01	15 3025 (Part-52): 2003
18	Sodium as Na	mg/l	4.9	18 3025 (Part-45): 1993
19	Potassium as K	mg/t	7.2	IS 3025 (Part-45): 1993

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APR SURFACE WATER-2



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NIZE CIN U725010R2010PTC011651



Report	No.	: W	CS:	2304	03
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20	Alkalinity as CaCO1	mg/1	230	IS 3025 (Part-23): 1986
21	Chemical Oxygen Demand as COD	mg/T	2.4	(S 3025 (Part-58) : 2006
22	Total Dissolved Solid as TDS	mg/l	373	IS 3025 (Part-16): 1984
23	Turbidity	NTU	-1	IS 3025 (Part-10): 1984
24	E.Coli	MPN/ 100 m	<1	IS 1622 : 1981
25	Faecal Coliform	MPN/ 100 m	<1	IS 1622 : 1981
26	Total Coliform	MPN/ 100 ml	3	IS 1622 : 1981

Bhahalamy

Reviewed by (Mr. Bijaya Kumar Chahataray) Authorized Signatory To Microbiology (Mrs. Manaswini Rout)

Authorized Signatory for Chemical

(Mr. Pradeept Mohapatra)

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MAY SURFACE HATER -3

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED

(TESTING LABORATORY) GST NO. 2LAADCT4043NIZE CIN: U725010R2010PTC011651



WCS/LQR/60	TEST REPORT			TC-11225
NABL ULR No.	: WCS230601A : TC1122523000000077F	Issue Date	4	02.06.2023
Name of the Client	National Aluminium Company L Smelter & Power (S&P) Complex	imited		
S ampling Location	Angul-759145, Odisha Settling Pond Near Coal Cutting	Area (Site-1)		
Sumple Description Sumpling Plan & Method	Surface Water WCS/QSP/SAMP (WATER)	Dute of Sampling Date of Receiving	10	29.05.2023
Environmental Condition Sample Collected by	Temperature 30 th C, Clear Weather WCS Laboratory	Sample ID No Quantity of Sample	000	WCS0523W15 1 Ltr
Date of Testing	: 30.05.2023 to 02.06.2023	Sample Condition	- 2	Good

SI. No.	Parameter	Unit	Result	Permissible Limit as per Causent Order No- 5059/IND-I-CON-6762 D1:28.03.2023	Test Methods
1	all Value	-	8.02	5,5-9.0	ES 3025 (Part-11): 2022
2	Total surpended Solid	mgil	10	100	15 3025(Part-17/1984 RA 2012
9	Oil & Grutese	figm	-4	10	APHA 23rd Ed. (5520-B) 2017
4	Biochemical Oxygen Demand as BOD	ng/t	3.7	1	18 3025 (Part-44): 1993
(5	Chemical Oxygen Demand as COD	mgi	0.4	250	APHA 23rd Ed. (5220-D): 2017
0	Colour	Historen	2	- 000	15 3025 (Part-4): 2021
1	Specific Conductivity	µs/cm	676.4	-	18 3028 (Part-14): 2013
8	Turhiday	NTU	<1	-	18-3025 (Part-10): 1984 RA 2017
.0	Dumive Oxygen at (8)	mgf	8.5	-	15 3025 (Pan-38): 1989
10	Total Hardness as CaCO ₁	mg/l	214	-	APHA 234 E4. (2340-C): 2017
11	Chloride as Cl	nig/l	53.98	-	IS 3025 (Part-32): 1988
12	Salphate as 5O,	møf	77.48	-	IS 3025 (Part-24, Sec-1): 2022
13	Nitrate as NO1	mg/t	1,88	-	APHA 23 ⁴⁴ Ed. (4500-NO ₂ -8): 2017
14	Calcium as Cu	ng/l	45.49		APHA 23rd Ed. (3500-Ca-B): 2017
15	Magnésium as Mg	mg/l	23.81	-	APHA 23* Ed. (3500-Mg-B): 2017
16	Total Dissolved Solid as TDS	mg/l	369	-	IS 3025 (Part-16): 1984
17	Total Alkalinity as CaCO,	ngi	160	-	IS 3025 (Part-23): 1986 RA 2019
18	Potassium as K	mg/1	30.2	-	IS 3025 (Part-45); 1993 RA 2019
10	Sodium as Na	ing/t	42.3	-	IS 3025 (Part-45) 1993 RA 2019

(Bhahata) Reviewed by

(Mr. Bijaya Kumar Chahataray)



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(Mr. Pradcept (Schapatra) Bhubareswar

Authorized Signatory 1080

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MAY SURFACE WATER-4

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Date of Testing

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NIZE



Sample Condition



WCS/LQR/60		TEST REPORT			TC-11228	
R.*port No. NIABL ULR No.		WCS230601B TC1122523000000077F	Issue Date	¢.	02.05.2023	
Name of the Client	1.12	National Aluminium Company L	imited			
A Atress	ŧ	Sinelter & Power (S&P) Complex Angul-759145, Odisha				
Sumpling Location		Settling Pood Near Coal Cutting	Area (Site-7)			
Sample Description	1 1	Surface Water	Date of Sampling	143	29.05.2023	
Sempling Plan & N	fethod :	WCS/QSP/SAMP (WATER)	Date of Receiving	10	30.05.2023	
Environmental Con	dition :	Temperature 30°C, Clear Weather		- 20	WCS0523W16	
Sample Collected b	iy i	WCS Laboratory	Quantity of Sample	1	I Ltr	

: 30.05.2023 to 02.06.2023

SL. No,	Parameter	Unit	Result	Permissible Limit as per Consent Order No- 5059/IND-I-CON-6762 Dt:28.03.2023	Test Methods
4	gH Value	-	8.04	5.5.90	15.30251 Part-111 2022
2	Total suspended Solid	right	10	100	15 3025(Part-17)1984 RA 2012
.1	Oil & Circuse	ings.		10	APHA 274 Ed. (5520-B): 2017
+	Biochemical Oxyget Demand as BOD	ang t	5.6	-	15 3025 (Part-44): 1993
5	Chemical Oxygen Demand as COD	mp/t	4.6	250	APHA 23rd Fd. (5220-D): 2017
	Celour	Hazen	2	-	15 3025 (Part-4): 2021
A.	Specific Conductivity	weight	722.9		08 3023 (Part-14) 2013
1	Turbidity	NTU	-1	-	1S 3025 (Part-10): 1984 RA 2017
4	Dissolve Oxygen as DO	ingit	0.2		15.3025 (Part-38) 1989
10	Total Hardness as CaCO ₁	ng/l	218	+	APHA 23 rd Ed. (2340-C) 2017
11.1	Chloride as Cl	mg/1	37.98	**	15 3025 (Part-32): 1988
12	Salphate as SO ₄	mg/1	79.44	+	15 3025 (Part-24, Sec-1): 2022
13	Nitrate as NO1	mg/l	1.97		APHA 23 ⁴⁴ Ed. (4500-NOB): 2017
14	Calcium as Ca	Tgm	44.89	-	APH(A 23rd Ed. (3500-Ca-B): 2017
B.	Magnesium as Mg	ing/1	25.76	-	APHA 234 Ed. (3500-Mg-8): 2017
16	Total Dissolved Solid as TDS	mg/l	373	-	IS 3025 (Part-16): 1984
17	Total Alkalinity as CaCO1	mg/l	160	-	IS 3025 (Part-23): 1986 RA 2019
18	Potassium as K	mg/l	30.4		IS 3025 (Part-45): 1993 RA 2019
10	Sodium as Na	ngt	49.1		IS 3025 (Part-45) : 1993 RA 2019

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Reviewed by (Mr. Bijaya Kumar Chahataray)

Authorized Signatory for Chest (Mr. Pradeept Mohapan

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AUGH SURFACE WATER-5



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NLZE CIN: U725010R2010PTC011651



WCS/LQR/60	TEST REPORT			TC-11225
Report No. NABL ULR No.	: WCS2308W03 : TC1122523000000129F	Issue Date	100	16.08.2023
Name of the Client Address	 National Aluminium Company L Smelter & Power (S&P) Complex Angul-759145, Odisha 	imited		
Sampling Location Sample Description Sampling Plan & Method Environmental Condition Sample Collected by Date of Testing	 Mines Discharge Water Surface Water WCS/QSP/SAMP (WATER) Temperature 29 °C, Clear Weather WCS Laboratory 10.08.2023 to 16.08.2023 	Date of Sampling Date of Receiving Sample ID No Quantity of Sample Sample Condition		09.08.2023 10.08.2023 WC\$0823W11 1 Ltr Good

51. No.	Parameter	Unit	Result	Permissible Limit as per Consent Order No- 5059/TND-L-CON-6762 DE28.03.2023	Test Methods
1	pH Value		6.988	5.5-9.0	15 3025 (Part+11): 2022
2	Total suspended Solid	frag/1	15	100	15 3025(Part-17)1984 RA 2012
3	Oil &Circase	Pagen	<4	10	APHA 23rd Ed. (5520-B): 2017
4	Biochemical Oxygen Demand as BOD	mg/l	3.5	-	18 3025 (Part-44): 1992
5	Chemical Oxygen Demand as COD	mg/l	5.6	250	APHA 23rd Ed. (5220-D): 2017
ð	Colour	Hazen	25	-	IS 3025 (Part-4): 2021
7	Specific Conductivity	jus/cm	480	-	15 3025 (Part-14) 2013
8	Turbidity	NTU	99.9	-	15 3025 (Part-10): 1984 RA 2017
9	Dissolve Oxygen as DO	ing/t	6.4	-	15 3025 (Part-38) 1989
10	Total Hardness as CaCO ₃	mg/l	88		APHA 23* Ed. (2340-C): 2017
11	Chiloride as Cl	nig/t	47,49	+	IS 3025 (Purt-32): 1988
12	Sulphone as \$0,	mg/l	72.6	-	18 3025 (Part-24, Sec-1): 2022
13	Nitrate as NOs	mg/t	1.62	-	APHA 234 Ed. (4560-NOy-B): 2017
14	Calcium as Ca	mg/l	19.24	-	APHA 23rd Ed. (3500-Ca-B): 2017
15	Magnesium as Mg	Pain .	9,72	-	APHA 23rd Ed. (3500-Mg-B): 2017
16.5	Total Dissolved Solid as TDS	ngA	288	-	15 3025 (Part-16): 1984
17	Total Alkalinity as CaCO ₁	mg/l	145	-	IS 3025 (Part-23): 1986 RA 2019
18	Potastinam as K	mg/l	27.6	-	IS 3025 (Pari-45): 1993 RA 2019
19	Softum 28 Na	Tum	42.5	-	IS 3025 (Part-45) 1993 RA 2019

Reviewed by (Mr. Bijaya Kumar Chahataray)

Authorized Signatory for Chemical

(Mr. Pradeept Mohapatra)

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AUGI SURFACE WATER-6

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WCS/LQR/60		TEST REPORT			TC-11225
Report No.		WCS2308W04	Issue Date	4	16.08.2023
NABL ULR No.	1	TC1122523000000129F			
Name of the Client	1	National Aluminium Company Li	imited		
Address	÷	Smelter & Power (S&P) Complex			
		Angul-759145, Odisha			
Sampling Location	20	Seepage Water			
Sample Description	1	Surface Water	Date of Sampling	1	09.08.2023
Sampling Plan & Method	1.	WCS/QSP/SAMP (WATER)	Date of Receiving	12	10.08.2023
Environmental Condition		Temperature 29 °C, Clear Weather	Sample ID No	1	WC50823W12
Sample Collected by	- 60	WCS Laboratory	Quantity of Sample	12	I Ltr
Date of Testing	1	10.08.2023 to 16.08.2023	Sample Condition	z	Good

SL. No.	Parameter	Unit	Result	Permissible Limit as per Consent Order No- 5059/IND-I-CON-6762 Dt:28.03.2023	Test Methods
1	pH Value	-	6.999	5.5-9.0	18 3025 (Part-11): 2022
2	Total suspended Solid	-mg/t	25	100	IS 3025(Part-17)1984 RA 2012
3.	Oil & Grease	nig/l	e4	10	APHA 23 ^{al} Ed. (\$520-B): 2017
4	Biochemical Oxygen Demand as BOD	mg/l	4	H.	18 3025 (Part-44): 1993
5	Chemical Oxygen Demand as COD	mg/l	3,2	250	APHA 23rd Ed. (\$220-D): 2017
6	Colour	Hazen	20		IS 3025 (Part-4): 2021
7	Specific Conductivity	µs/em	458	-	1S 3025 (Pan+14): 2013
8	Turbidity	NTU	61.8	-	1S 3025 (Part-10): 1984 RA 201
v	Dissolve Oxygen as DO	mg/l	5.7	i i i	18 3025 (Part-38): 1989
10	Total Hardness as CaCO ₆	ing/1	84	-	APHA 23 st Ed. (2340-C); 2017
H.	Chloride as CI	mu/l	54.98	-	IS 3025 (Part-32): 1988
12	Sulphnic as SO ₄	ngn	42.70	-	IS 3025 (Pan-24, Sec-1): 2022
13	Nitrate as NOs	mg/8	<1	-	APHA 234 Ed. (4500-NO ₂₇ 8): 2017
14	Calcium as Ca	mg/l	22.44	-	APHA 23rd Ed. (3500-Ca-8): 2017
15	Magnessum as Mg	ngñ	6.80	-	APHA 23 rd Ed. (3500-Mg-B): 2017
16	Votal Dissulved Solid as TDS	ngi	275	-	IS 3025 (Part-16): 1984
17	Total Alkalinity as CaCO;	ingi	185	+	IS 3025 (Part-23): 1986 RA 2019
18	Potassium as K	mg/T	6.9	-	IS 3025 (Part-45): 1993 RA 2019
19	Sodium as Na	ngi	4.7		IS 3025 (Part-45) : 1993 RA 2019

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Reviewed by (Mr. Bijaya Kumar Chahataray)

Authorized Signatory for Chemical (Mr. Pradeept Mohapatra)

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APR23-B1/1



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WCS/LQR/60	TEST RE	PORT		TC-11225
Report No. NABL ULR No.	: WCS230402B : TC1122523000000042F	Issue Date		17.04.2023
Name of the Client	: National Aluminium Company L	imited		
Address	: Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location	: Near Colony Township (Bore We	II)		
Sample Description	: Ground Water	Date of Sampling	120	07.04.2023
Sampling Plan & Method	: WCS/QSP/SAMP (WATER)	Date of Receiving		08.04.2023
Environmental Condition	: Temperature 29 °C, Clear Weather			WCS0423W02
Sample Collected by	: WCS Laboratory	Quantity of Sample	-	1 Ltr
Date of Testing	: 10.04.2023 to 15.04.2023	Sample Condition	*	Good

SI, No.	Parameter	Unit	Result	Requirement as per IS 10500:2012 Reaffirmed 2018	Test Methods
1	Coleur	Hazen	2	Max, 5	IS 3025 (Part-4): 2021
ż	Ödour		Agreeable	Agreeable	1S 3025 (Part-5): 2018
3	pH Value	+	5.854	6.5-8.5	48 3025 (Part-11): 2022
4	Taste Threshold	-	Agreeable	Agrocable	IS 3025 (Part-7): 2017
5	Turbidity	NTU	0.3	1	15 3025 (Part-10): 1984 RA 2017
6	Total Dissolved Solid as TDS	mg/l	84	500	IS 3025 (Part-16): 1984 RA 2017
7	Ammonia as Total ammonia-N	mg/l	0.09	0.5	IS 3025 (Part-34): 1988 RA 2019
8	Calcium as Ca	mg/ī	6,41	75	IS 3025 (Part-40): 1991 RA 2019
9	Chloride as Cl	mg/l	19,99	250	IS 3025(Part-32): 1988 RA 2019
10	Fluoride as F	eng/1	< 0.02	1.0	APHA 23 rd Ed. (4500-F-D): 2017
11	Iron as Fe	mg/l	0.11	1.0	IS 3025 (Part -53): 2003 RA 2019
12	Magnesium as Mg	mg/l	1.458	30	APHA 23rd Ed. (3500-Mg-B): 2017
13	Nitrate as NO ₅	mg/l	11.30	45	APHA 23 rd Ed. (4500-NO1-B): 2017
14	Sulphate as SO4	mg/l	0.61	200	1S 3025 (Part-24 Sec 1):2022
15	Total Alkalinity as CaCO3	mg/l	10	200	IS 3025 (Part-23): 1986 RA 2019
16	Total Hardness as CaCO3	mg/l	22	200	IS 3025 (Part-21): 2009 RA 2019
17	Total Chromium as Cr	mg/l	< 0.02	0.05	IS 3025 (Part-52) : 2003 RA 2019
18	Potassium as K	mg/l	4.6	-	IS 3025 (Part-45): 1993 RA 2019



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Report No. : WCS230402B

19	Sodium as Na	mg/I	6.2		IS 3025 (Part-45): 1993 RA 2019
20	Total Suspended Solid as TSS	mg/l	~5	-	IS 3025 (Part-17): 2022
21	E.Coli	MPN/ 100 ml	<1	Shall not be detectable in any 100 ml sample	15 1622 : 1981 RA 2019
22	Faecal Coliform	MPN/ 100 ml	<1		15 1622 : 1981 RA 2019
23	Total Coliform	MPN/ 100 ml	2	Shall not be detectable in any 100 ml sample	IS 1622 : 1981 RA 2019

(Bha Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory for Microbiology

(Mrs. Manaswini Rout)

Authorized Signalory for Chemical

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(Mr. Pradeept Mohapatra)

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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NLZE CIN. U725010R2010PTC011651

TEST REPORT

Report No. Name of the Client Address	 WCS230402B National Aluminium Company I Smelter & Power (S&P) Complex Angul-759145, Odisha 		•	17.04.2023
Sampling Location	: Near Colony Township (Bore W	(ell)		
Sample Description	: Ground Water	Date of Sampling	4	07.04.2023
Sampling Plan & Method	: WCS/QSP/SAMP (WATER)	Date of Receiving		08.04.2023
Environmental Condition	: Temperature 29 °C, Clear Weather		÷	WCS0423W02
Sample Collected by	: WCS Laboratory	Quantity of Sample	÷	1 Ltr
Date of Testing	: 10.04.2023 to 15.04.2023	Sample Condition		Good

SL No.	Parameter	Unit	Result	Requirement as per 1S 10500:2012 Reaffirmed 2018	Test Methods
24	Aluminium as Al	mg/l	<0.02	6.03	18 3025 (Part 55) : 2003 RA 2019
25	Anionic detergents as MBAS	ng4	<0.02	0.2	Annex K of 15 13428
26	Barisati as Ba	mg/l	<0.1	0.7	Annex F of 15 13428* or 15 15302
27	Boron as B	mg/l	<0.1	0.5	IS 3025 (Part 57) 2021
28	Chloramines as Cl ₂	mg/1	-00.02	4.0	18 3025 (Part 26): 2021* or APHA 4500-CLG
29	Copper as Cu	mg/T	<0.01	0.05	IS 3025 (Part-42) 1992 RA 2019
30	Manganese as Ma	mg/1	<0.05	0.1	IS 3025 (Part 59):2006 RA 2017
31	Mineral oil	ngʻl	<0.5	1.0	Clause 6 of 15 3025 (Part 39):2021
32	Phenolic compounds as CeHyOH	mg/l	<0.001	0.001	IS 3025 (Part 43): 1992 RA 2019
33	Selenium as Se	ng/l	<0.001	0.01	15 3025 (Part 56):2003 RA 2019 or 15 15303*
34	Silver as Ag	ngi	<0.02	0.1	Annex J of IS 13428
35	Sulphide as H ₂ S	mg/l	<0.05	0.05	IS 3025 (Part 29):1986 RA 2019
36	Zinc as Zn	mg/l	~0.05	5	IS 3025 (Part 49):1994 RA 2019
37	Cadmium as Cd	mg/l	<0.001	0.003	IS 3025 (Part 41) 1992 RA 2019
38	Cyanide as CN	mgñ	<0.01	0.05	IS 3025 (Part 27): 1986 RAA 2019
90	Lead as Pb	mgđ	<0.061	0.01	1S 3025 (Part 47) 1994 RA 2019
10	Mercury as Hg	mg/l	<0.601	0.001	IS 3025 (Part 48) 1994 RA 2019
Ú.	Molybdenum as Mo	ng/l	<0.02	0.07	IS 3025 (Part 2)



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Report No. : WCS230402B

N.B.:

42	Nickel as Ni	mg/t <0.01 0.02		IS 3025 (Part 54): 2003 RA 2019	
43	Polynuclear aromatic hydro- carbons as PAH	mgit	<0.0001	0.0001	APRA 6440
44	Total arsenic as As	mgd	<0.001	0.01	18 3025 (Part 37):2022

Chapatascy Reviewed by

(Mr. Bijaya Kumar Chahataray)

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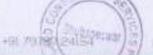


WCS/LQR/60	TEST RE	TEST REPORT		
Report No. NABL ULR No.	: WC\$230402C : TC1122523000000042F	Issue Date	4	17.04.2023
Name of the Client Address	 National Aluminium Company Li Smelter & Power (S&P) Complex Angul-759145, Odisha 	imited		
Sampling Location Sample Description Sampling Plan & Method	: Gopiballavpur Village (Tube Wel : Ground Water : WCS/QSP/SAMP (WATER)	Date of Sampling		07.04.2023
Environmental Condition Sample Collected by Date of Testing	: Temperature 29 °C, Clear Weather : WCS Laboratory : 10.04.2023 to 15.04.2023	Date of Receiving Sample ID No Quantity of Sample Sample Condition		08.04.2023 WCS0423W03 1 Ltr Good

SI. No.	Parameter	Unit	Result	Requirement as per IS 10500:2012 Reaffirmed 2018	Test Methods
I,	Colour	Hazen	10	Max, 5	IS 3025 (Part-4): 2021
2	Odeur		Agreeable	Agreeable	IS 3025 (Part-5): 2018
3	pH Value	-	6.874	5.5-8.5	IS 3025 (Part-11): 2022
4	Taste Threshold		Agreeable	Agreeable	IS 3025 (Part-7): 2017
5	Turbidity	NTU	1	t	IS 3025 (Purt-10): 1984 RA 2017
6	Total Dissolved Solid as TDS	mg/l	130	500	IS 3025 (Part-16): 1984 RA 2017
7	Ammonia as Total ammonia-N	mg/l	0.22	0.5	IS 3025 (Part-34): 1988 RA 2019
8	Calcium as Ca	mg/l	14.43	75	IS 3025 (Part-40): 1991 RA 2019
9	Chloride as Cl	mg/l	57.98	250	IS 3025(Part-32): 1988 RA 2019
10	Fluoride as F	mg/l	< 0.02	1.0	APHA 23 rd Ed. (4500-F-D): 2017
11	Iron as Fe	mg/l	0.39	1.0	IS 3025 (Part -53): 2003 RA 2019
12	Magnesium as Mg	mg/l	12.64	30	APHA 23rd Ed. (3500-Mg-B): 2017
13	Nitrate as NO1	mg/l	< 0.01	45	APHA 23rd Ed. (4500-NO3-B): 2017
14	Sulphate as SO ₄	mg/l	< 1	200	IS 3025 (Part-24 Sec 1):2022
15	Total Alkalinity as CaCO ₃	mg/l	120	200	IS 3025 (Part-23): 1986 RA 2019
16	Total Hardness as CaCO ₃	mg/1	88	200	IS 3025 (Part-21): 2009 RA 2019
17	Total Chromium as Cr	mg/î	< 0.02	0.05	1S 3025 (Part-52) : 2003 RA 2019
18	Potassium as K	mg/l	4.5	-	IS 3025 (Part-45): 1993 RA 2019



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Report No. : WCS230402C

19	Sodium as Na	mg/l	6.9	-	18 3025 (Part-45) : 1993 RA 2019
20	Total Suspended Solid as TSS	mg/I	<5	+	18 3025 (Part-17): 2022
21	E.Coli	MPN/ 100 ml	<1	Shall not be detectable in any 100 ml sample	1S 1622 : 1981 RA 2019
22	Faecal Coliform	MPN/ 100 mI	< 1	-	IS 1622 : 1981 RA 2019
23	Total Coliform	MPN/ 100 ml	< 1	Shall not be detectable in any 100 ml sample	IS 1622 : 1981 RA 2019

Reviewed by

(Mr. Bijaya Kumar Chahataray)

N.B.:

Mar and i for Microbiology (Mrs. Manaswini Rout)

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Authorized Signatory for Chemical (Mr. Pradeept Mohapatra)

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APRA3-BA/7

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WCS/LQR/60

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 2LAADCT4D43NIZE CIN: U725010R2010PTC011651

TEST REPORT

Report No.	: WCS230402C	Issue Date	12	17.04.2023
Name of the Client	: National Aluminium Company L	imited		
Address	: Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location	: Gopiballavpur Village (Tube We	10		
Sample Description	: Ground Water	Date of Sampling	-	07.04.2023
Sampling Plan & Method	: WCS/QSP/SAMP (WATER)	Date of Receiving	- 21	08.04.2023
Environmental Condition	: Temperature 29 °C, Clear Weather	Sample ID No		WCS0423W03
Sample Collected by	: WCS Laboratory	Quantity of Sample	1	I Ltr
Date of Testing	: 10.04.2023 to 15.04.2023	Sample Condition	÷	Good

SL No.	Purameter	Unit	Result	Requirement as per 15 10500:2012 Reaffirmed 2018	Test Methods
25	Aluminium as Al	mg/l	<0.02	0.03	18 3025 (Part 55): 2003 RA 2019
26	Anionic detergents as MBAS	mg/l	<0.02	0.2	Annex K of 15 13428
27	Barium as Ba	mg/T	<0,1	0.7	Annex F of 15 13428* or 15 15302
28	Boron as B	mg/l	<0.1	0.5	IS 3025 (Part 57):2021
29	Chloramines an Cl ₂	m#4	<0.02	4.0	IS 3025 (Part 26): 2021* or APHA 4500-C1 G
30	Copper as Co	mg/l	<3,01	0.05	18 3025 (Part 42) 1992 RA 2019
31	Manganese as Mn	mg/1	<0.05	0,1	1S 3025 (Part 59):2006 RA 2017
32	Mineral oil	mg/1	<0.5	1.0	Clause 6 of 15 3025 (Part 39):2021
33	Phenolic compounds as C ₆ H ₉ OH	mg/1	-05.001	0.001	IS 3025 (Part 43): 1992 RA 2019
34	Selenium as Se	mg/l	-00.001	0.01	IS 3025 (Part 56):2003 RA 2019 of IS 15303*
35	Silver as Ag	mg/l	<0.02	0,1	Annex J of IS 13428
36	Sulphide as H ₂ S	mg/l	<0.05	0.05	1S 3025 (Part 29):1986 RA 2019
37	Zinc as Za	mg/t	<0.05	5	IS 3025 (Part 49):1994 RA 2019
38	Cadmium as Cd	mg/l	<0.001	0.003	IS 3025 (Part 41) 1992 RA 2019
39	Cyanide as CN	mg/l	<0.01	0.05	1S 3025 (Part 27): 1986 RAA 2019
40	Load as Pb	mg/l	<0.001	0.01	IS 3025 (Part 47) 1994 RA 2019
41	Mercury as Hg	mg/l	<0.001	0.001	IS 3025 (Part 48):1994 RA 2019
42	Molybdenum as Mo	mg/l	<0.02	0.07	IS 3023 (Part 2)



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APRA3-B2/8



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U7250L0R2010PTC011651

Report No. : WCS230402C

N.B.:

43	Nickel as Ni	ngđ	<0.01	0.02	15 3025 (Part 54): 2003 RA 2019
44	Polynuclear arcmatic hydro- carbons as PAH	mgil	<0.0001	0.0001	APHA 6440
45	Total arsenic as As	mgit	<0.001	0.01	15 3025 (Part 37):2022

Chalatary Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory

(Mr. Pradeept Mohapatra)

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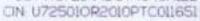
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APR 23-01/9



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE



Sample Condition

: Good



WCS/LQR/60	WCS/LQR/60 TEST I		TC-11225		
Report No. NABL ULR No. Name of the Client Address	: WCS230402A : TC1122523000000042F : National Aluminium Con : Smelter & Power (S&P) C		:	17.04.2023	
Sampling Location	Angul-759145, Odisha : Near Settling Pond (Bore				
Sample Description Sampling Plan & Method Environmental Condition Sample Collected by	: Ground Water : WCS/QSP/SAMP (WATE : Temperature 29 °C, Clear : WCS Laboratory			07.04.2023 08.04.2023 WCS0423W01 1 Ltr	

SL No.	Parameter	Unit	Result	Requirement as per IS 10500:2012 Reaffirmed 2018	Test Methods
1	Colour	Hazen	2	Max, 5	18 3025 (Part-4): 2021
2	Odour	-	Agrecable	Agreeable	IS 3025 (Part-5): 2018
3	pH Value		6.716	6.5-8.5	IS 3025 (Part-11): 2022
4	Taste Threshold		Agreeable	Agreeable	1S 3025 (Part-7): 2017
5	Turbidity	NTU	0.4	1	18 3025 (Part-10): 1984 RA 2017
6	Total Dissolved Solid as TDS	mg/i	264	500	IS 3025 (Part-16): 1984 RA 2017
7	Ammonia as Total ammonia-N	mg/1	0.17	0.5	IS 3025 (Part-34): 1988 RA 2019
8	Calcium as Ca	mg/l	33,67	75	IS 3025 (Part-40): 1991 RA 2019
9	Chloride as Cl	mg/l	43.98	250	IS 3025(Part-32): 1988 RA 2019
10	Fluoride as F	nga	< 0.02	1.0	APHA 23 rd Ed. (4500-F-D): 2017
11	Iron as Fe	mgA	0.06	1.0	IS 3025 (Part -53): 2003 RA 2019
12	Magnesium as Mg	mg/l	16.04	30	APHA 23 rd Ed. (3500-Mg-B): 2017
13	Nitrate as NO3	mg/l	24.03	45	APHA 23 st Ed. (4500-NO2-B): 201
14	Sulphate as SO4	mg/l	10.44	200	IS 3025 (Part-24 Sec 1):2022
15	Total Alkalinity as CaCO3	mg/l	125	200	IS 3025 (Part-23): 1986 RA 2019
16.	Total Hardness as CaCO3	mg/l	150	200	15 3025 (Part-21): 2009 RA 2019
17	Total Chromium as Cr	mg/i	< 0.02	0.05	15 3025 (Part-52) : 2003 RA 2019
18	Potassium as K	mg/l	4.7	+	IS 3025 (Part-45): 1993 RA 2019

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Date of Testing : 10.04.2023 to 15.04.2023



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APR23-0/10



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO 2LAADCT4043NIZE CIN U72S010R2010PTC011651



Report No. : WCS230402A

19	Sodium as Na	mg/l	6.8	1.	IS 3025 (Part-45) : 1993 RA 2019
20	Total Suspended Solid as TSS	mg/l	<5	-	18 3025 (Part-17): 2022
21	E.Coli	MPN/ 100 ml	<1	Shall not be detectable in any 100 ml sample	18 1622 : 1981 RA 2019
22	Faecal Coliform	MPN/ 100 ml	<1	-	15 1622 : 1981 RA 2019
23	Total Coliform	MPN/ 100 ml	7	Shall not be detectable in any 100 ml sample	15 1622 : 1981 RA 2019

BL Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory (dr. Microbiology (Mrs. Manaswini Rout)

Authorized Signatory for Chemical (Mr. Pradeept Mohapatra)

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WCS/LQR/60

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC011651

TEST REPORT

Report No.	1	WCS230402A	Issue Date	12	17.04.2023
Name of the Client	12	National Aluminium Company Li	imited		
Address	1	Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location	33	Near Settling Pond (Bore Well)			
Sample Description	12	Ground Water	Date of Sampling	4	07.04.2023
Sampling Plan & Method	1	WCS/QSP/SAMP (WATER)	Date of Receiving	1	08.04.2023
Environmental Condition	1	Temperature 29 °C, Clear Weather	Sample ID No	1	WCS0423W01
Sample Collected by	10	WCS Laboratory	Quantity of Sample	1	1 Ltr
Date of Testing	12	10.04.2023 to 15.04.2023	Sample Condition		Good

SI. No.	Parameter	Unit	Result	Requirement as per 15 10500:2012 Reaffirmed 2018	Test Methods
24	Aluminium as Al	mg/l	<0.02	0.03	IS 3025 (Part 55): 2003 RA 2019
25	Animic detergents as MBAS	mg/î	<0.02	0.2	Annex K of 15 13428
26	Barium as Ba	ngit	<0.1	0.7	Annex F of 15 13428* or 15 15302
27	Borun as B	mg/l	<0.1	0.5	1S 3025 (Part 57):2021
28	Chloramines as Cl ₂	mg/1	<0.02	4.0	IS 3025 (Part 26): 2021* or APHA 4500-C1 G
29	Copper as Cu	mgA	<0.01	0.05	IS 3025 (Part 42):1992 RA 2019
30	Manganese as Mn	mg/l	<0.05	0.1	IS 3025 (Part 59):2006 RA 2017
31	Mineral oil	mpʻl	-0.5	1.0	Clause 6 of 15 3025 (Part 39):2021
32	Phenolic compounds as CoRsOH	mg/l	<0.001	0.001	IS 3025 (Part 43): 1992 RA 2019
33	Selenium as Se	mg/l	<0.001	0.01	IS 3025 (Part 56):2003 RA 2019 of IS 15303*
34	Silver as Ag	mg/l	<0.02	0,1	Annex J of IS 13428
35	Sulphide as H ₂ S	mg/l	<0.05	0.05	IS 3025 (Part 29): 1986 RA 2019
36	Zinc as Za	mg/l	<0.05	5	IS 3025 (Part 49) 1994 RA 2019
37.	Cudmium as Cd	mg/l	<0.001	0.003	IS 3025 (Part 41) 1992 RA 2019
38	Cyanide as CN	mg4	<0.01	0.05	IS 3025 (Part 27): 1986 RAA 2019
30	Lead as Ph	mg/l	<0.001	0.01	IS 3025 (Part 47): 1994 RA 2019
40	Mercury as Hg	mp1	<0.001	0.001	(S 3025 (Part 48):1994 RA 2019
11	Molybdenum as Mo	mg/l	<0.02	0.07	15 3025 (Part 2)



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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 2LAADCT4043NIZE CIN: U7250LOR2010PTC011651

Report No. : WCS230402A

42	Nickel at Ni	mgit	<0.01	0.02	IS 3025 (Part \$4): 2003 RA 2019
43	Polynuclear aromatic hydro- carbons as PAH	mgit	<0.0001	0.0001	APHA 6440
44	Total arsenic as As	mgit	<0.001	0.01	18 3025 (Part 37):2022

Bhahatamy

Reviewed by (Mr. Bijaya Kumar Chahataray)

Authorized Signatory

(Mr. Pradeept Mohapatra)

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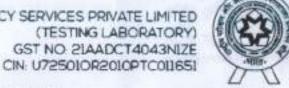
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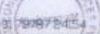


WCS/LQR/60	TEST	REPORT		TC-11225
Report No.	: WCS2308W05	Issue Date	12	16.08.2023
NABL ULR No.	: TC1122523000000130F			
Name of the Client	: National Aluminium Compan	y Limited		
Address	 Smelter & Power (S&P) Compl Angul-759145, Odisha 	ex		
Sampling Location	: Colony Area Bore Well No-M.	AFMT6		
Sample Description	: Ground Water	Date of Sampling	-1-	09.08.2023
Sampling Plan & Method	: WCS/QSP/SAMP (WATER)	Date of Receiving	- 1	10.08.2023
Environmental Condition	: Temperature 29 °C, Clear Weat	her Sample ID No	1	WCS0823W13
Sample Collected by	: WCS Laboratory	Quantity of Sample	\$	1 Ltr
Date of Testing	: 10.08.2023 to 16.08.2023	Sample Condition	1	Good

SL No.	Parameter	Unit	Result	Requirement as per IS 10500:2012 Reaffirmed 2018	Test Methods
1	Colour	Hazen	4	Max, 3	IS 3025 (Part-4): 2021
2	Odour	+	Agreable	Agreeable	18 3025 (Part-5); 2018
3	pH Value		5.728	6.5-8.5	18 3025 (Part-11): 2022
4	Taste Threshold	-	Agreable	Agreeable	15 3025 (Part-7): 2017
5	Turbidity	NTU	0,4	4	IS 3025 (Part-10): 1984 RA 2017
6	Total Dissolved Solid as TDS	mg/l	142	500	1S 3025 (Part-16): 1984 RA 2017
7	Ammonia as Total ammonia-N	mg/l	0.08	0.5	IS 3025 (Part-34): 1988 RA 2019
8	Calcium as Ca	mgA	4,81	75	IS 3025 (Part-40): 1991 RA 2019
9	Chloride as Cl	mg/I	19.99	250	IS 3025(Part-32): 1988 RA 2019
10	Fluoride as F	mg/]	0.01	1.0	APHA 23 rd Ed. (4500-F-D): 2017
DE.	Iron as Fe	mgA	0.13	1.0	IS 3025 (Part -53): 2003 RA 2019
12	Magnesium as Mg	mg/l	2.92	30	APHA 23 ^{nl} Ed. (3500-Mg-B): 2017
13	Nitrate as NO1	mg/l	11.0	45	APHA 23rd Ed. (4500-NO1-B): 2017
14	Sulphate as SO4	mg/l	0.60	200	15 3025 (Part-24 Sec 1):2022
15	Total Alkalinity as CaCOa	mg/l	15	200	IS 3025 (Part-23): 1986 RA 2019
16	Total Hardness as CaCO ₃	mg/5	24	200	15 3025 (Part-21); 2009 RA 2019
17	Total Chromium as Cr	mg/l	<0.02	0.65	1S 3025 (Part-52) : 2003 RA 2019
18	Potassium as K	mg/l	4.5	-	IS 3025 (Part-45): 1993 RA 2019



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AUG123-B1/14



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO. 2LAADCT4043NLZE CIN: U725010R2010PTC011651



Report No. : WCS2308W05

19	Sodium as Na	mg/l	5.9	-	IS 3025 (Part-45) : 1993 RA 2019
20	Total Suspended Solid as TSS	mg/l	<5	+	18 3025 (Part-17): 2022
21	E,Coli	MPN/ 100 ml	<1	Shall not be detectable in any 100 ml sample	15 1622 : 1981 RA 2019
22	Faecal Coliform	MPN/ 100 ml	<1	-	15 1622 : 1981 RA 2019
23	Total Coliform	MPN/ 100 ml	2	Shall not be detectable in any 100 ml sample	1S 1622 : 1981 RA 2019

Bha Reviewed by

(Mr. Bijaya Kumar Chahataray)

N.B.:

Manaroli Port

Authorized Signatory for Microbiology (Mrs. Manaswini Rout)

Authorized Signatory for Chemical (Mr. Pradeept Mohapatra)

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AUG123-B1/15



WCS/LQR/60

MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC011651

TEST REPORT

Report No.	13	WCS2308W05	Issue Date	- 32	16.08.2023
Name of the Client		National Aluminium Company Li	imited		
Address	+	Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location	10	Colony Area Bore Well No-MAE	MT6		
Sample Description		Ground Water	Date of Sampling	+	09.08.2023
Sampling Plan & Method	:	WCS/QSP/SAMP (WATER)	Date of Receiving		10.08.2023
Environmental Condition		Temperature 29 °C, Clear Weather	Sample ID No		WCS0823W13
Sample Collected by	4	WCS Laboratory	Quantity of Sample		1 Ltr
Date of Testing	+	10.08.2023 to 16.08.2023	Sample Condition	1	Good

SL No.	Parameter Unit Result Requirement as per 1S 10500:2012 Reaffirmed 2018		Test Methods		
24	Aluminium as Al	mgrit	-0.02	0.03	IS 3025 (Part 55): 2003 RA 2019
25	Anionic detergents as MBAS	ngit	<0.02	0.2	Annes K of 15 13428
26	Barium as Ba	ng/t	<0.1	0.7	Annex F of 1S 13428* or IS 15302
27	Beron as B	mg/t	<0,1	0,5	IS 3025 (Part 57):2021
28	Chloramines as Cla	mg/1	<0.02	4,0	15 3025 (Part 26): 2021* or APHA 4500-CI G
29	Copper as Cu	ngit	<0.01	0.05	15 3025 (Part 42):1992 RA 2019
30	Manganese as Mn	mg/l	~0.05	0,1	18 3023 (Part 59) 2006 RA 2017
31	Mineral oil	Pagm	<0.5	1.0	Clause 6 of 15 3025 (Part 39):2021
32	Phenolic compounds as C.H.OH	mg/l	100.50	0.001	18 3025 (Part 43): 1992 RA 2019
33	Selenium as Se	mgit	<0.001	0.01	IS 3025 (Part 56):2003 RA 2019 or IS 15303*
34	Silver as Ag	mgit	<0.02	0.1	Annex J of 15 13428
35	Sulphide as H ₂ S	mg4	<0.05	0.05	IS 3025 (Part 29) 1986 RA 2019
36	Zine as Zn	mg/l	<0.05	5	IS 3025 (Part 49):1994 RA 2019
37	Cadmium as Cd	rugp/1	<0.001	0.003	IS 3025 (Part 41):1992 RA 2019
38	Cyanide as CN	mg/l	-0.01	0.05	IS 3025 (Part 27):1986 RAA 2019
10	Land as Ph	mg/l	<0.001	0.01	IS 3025 (Part 47):1994 RA 2019
40	Mercury as Hg	mg/l	<0.001	100.0	IS 3825 (Part 48):1994 RA 2019
41	Molybdenam as Mo	mg/I	<0.02	0.97	(S 3025 (Part 2)
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MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC011651

Report No. : WCS2308W05

42	Nickel as Ni	figm	<0.01	0.02	15 3025 (Part 54): 2003 RA 2019
43	Polynuclear aromatic bydro- carbons as PAH	ang 1	<0,0091	0.9001	APHA 6440
44	Total arsenic as As	fayn	100.0>	0.01	18 3025 (Pan 37) 2022

Blahotory Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory

(Mr. Pradeept Mohapatra)

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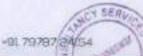
WCS/LQR/60	TEST RE	PORT		TC-11225	
Report No. 1 NABL ULR No. 1	WCS2308W06 TC1122523000000130F	Issue Date	1	16.08.2023	
Name of the Client :	National Aluminium Company Li	imited			
Address :	Smelter & Power (S&P) Complex Angul-759145, Odisha				
Sampling Location :	Colony Area Bore Well No-MAF!	MT7			
Sample Description :	Ground Water	Date of Sampling	+	09.08.2023	
Sampling Plan & Method :	WCS/QSP/SAMP (WATER)	Date of Receiving	:	10.08.2023	
Environmental Condition :	Temperature 29 °C, Clear Weather	Sample ID No	12	WCS0823W14	
Sample Collected by :	WCS Laboratory	Quantity of Sample	12	l Ltr	
Date of Testing :	10.08.2023 to 16.08.2023	Sample Condition	1	Good	

SI. No.	Parameter	Unit	Result	Requirement as per IS 10500:2012 Reaffirmed 2018	Test Methods
1	Colour	Hazen	3	Max, 5	18 3025 (Part-4): 2021
2	Odour	12	Agreeable	Agreeable	18 3025 (Part-5); 2018
3	pH Value	-	5.923	6.5-8.5	18 3025 (Part-11): 2022
4	Taste Threshold	-	Agreeable	Agreeable	IS 3025 (Part-7): 2017
5	Turbidity	NTU	12.8	1	15 3025 (Part-10): 1984 RA 2017
6	Total Dissolved Solid as TDS	mg/l	134	500	18 3025 (Part-16): 1984 RA 2017
7.	Ammonia as Total ammonia-N	mg/l	0.08	0.5	IS 3025 (Part-34): 1988 RA 2019
8	Calcium as Ca	mg/l	5,61	75	IS 3025 (Part-40): 1991 RA 2019
9	Chloride as Cl	mg/l	19.99	250	IS 3025(Part-32): 1988 RA 2019
10	Fluoride as F	mg/l	<0.2	1.0	APHA 23 rd Ed. (4500-F-D): 2017
11	Iron as Fe	mg/i	0.12	1.0	IS 3025 (Part -53): 2003 RA 2019
12	Magnesium as Mg	mg/l	1.94	30	APHA 23 rd Ed. (3500-Mg-B): 2017
13	Nitrate as NO ₃	mg/l	U.	45	APHA 23 rd Ed. (4500-NO ₃ -B): 2017
14	Sulphate as SO4	mg/l	0,6	200	15 3025 (Part-24 Sec 1):2022
15	Total Alkalinity as CaCO ₃	mg/i	20	200	IS 3025 (Part-23): 1986 RA 2019
16	Total Hardness as CaCO ₃	mg/l	22	200	IS 3025 (Part-21): 2009 RA 2019
17	Total Chromium as Cr	mg/l	<0.02	0.05	IS 3025 (Part-52) : 2003 RA 2019
18	Potassium as K	mg/l	4.7	-	IS 3025 (Part-45): 1993 RA 2019



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AUG123-B2/15



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC011651



Report No. : WCS2308W06

49	Sodium as Na	mg/1	6.4	-	18 3025 (Part-45) : 1993 RA 2019
20	Total Suspended Solid as TSS	mg/I	5	+	1S 3025 (Part-17): 2022
21	E.Coli	MPN/ 100 ml	<1	Shall not be detectable in any 100 ml sample	IS 1622 : 1981 RA 2019
22	Faecal Coliform	MPN/ 100 ml	~1		IS 1622 : 1981 RA 2019
23	Total Coliform	MPN7 100 ml	2	Shall not be detectable in any 100 ml sample	IS 1622 : 1981 RA 2019

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Reviewed by (Mr. Bijaya Kumar Chahataray)

Manaroli Port

Authorized Signatory for Microbiology (Mrs. Manaswini Rout) Authorized Signatory for Chemical (Mr. Pradeept Mohapatra)

- N.B.: O The results relate to the sample received in respect to the Parameters tested.
 - O Liability for return of sample ceases after 7 days from the date of Test certificate.
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AUG 23- Ba/19



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U7250LOR2010PTC011651

WCS/LQR/60

TEST REPORT

Report No.	1	WCS2308W06	Issue Date	:	16.08.2023
Name of the Client	- 2	National Aluminium Company L	imited		
Address	\$	Smelter & Power (S&P) Complex Angul-759145, Odisha			
Sampling Location	1	Colony Area Bore Well No-MAFI	MT7		
Sample Description	1	Ground Water	Date of Sampling	-1	09.08.2023
Sampling Plan & Method	- 2	WCS/QSP/SAMP (WATER)	Date of Receiving	1	10.08.2023
Environmental Condition	1	Temperature 29 °C, Clear Weather		-	WCS0823W14
Sample Collected by	4	WCS Laboratory	Quantity of Sample	-	1 Ltr
Date of Testing	-	10.08.2023 to 16.08.2023	Sample Condition	-	Good

SL No.	Parameter	Unit	Result	Requirement as per IS 10500:2012 Reaffirmed 2018	Test Methods
24	Aluminium as Al	not	<0.02	0.03	IS 3025 (Part 55) : 2003 RA 2019
25	Anionic detergents as MBAS	mg/l	<0.02	0.2	Annex K of IS 13428
26	Harisan as Ba	mg/l	<0,1	0.7	Annex F of 15 13428* or 15 15302
27	Boron as B	mg/l	<0.1	0.5	IS 3025 (Part 57):2021
28	Chloramines as Cl ₂	ng/l.	<0.02	4.0	IS 3025 (Part 26): 2021* or APHA 4500-C1 G
29	Copper so Co	nsg/I	<0.01	0.05	IS 3025 (Part 42) 1992 NA 2019
30	Mangamese as Mn	mg/l	<0.05	0.3	18 3025 (Part 59) 2005 RA 2017
31	Mineral oil	mg/l	<0.5	1.0	Clause 6 of 15 3025 (Part 39):2021
32:	Phenolic compounds as C ₆ H ₆ OH	mg/l	<0.001	0.001	IS 3025 (Part 43): 1992 RA 2019
33	Selenium as Se	ngd	<0:001	10.0	IS 3025 (Part 56):2003 RA 2019 or IS 15303*
34	Silver as Ag	Pagm	<0.02	0,1	Annex J of 15 13428
35	Sulphide as H ₁ S	mg/l	<0.05	0.05	IS 3025 (Part 29):1986 RA 2019
36	Zine us Zn	mg/l	<0.05	5	IS 3025 (Purt 49):1964 RA 2019
37.	Cadroiani as Cd	mg/l	100.0>	0.003	IS 3025 (Part 41) 1992 RA 2019
38	Cyanide as CN	ng/l	<0.01	0,05	IS 3025 (Part 27):1986 RAA 2019
19	Lead as Pb	ngn	<0.001	0.01	IS 3025 (Part 47):1994 RA 2019
10	Mercury as Hg	mg/l	<0.001	0.001	IS 3025 (Part 48):1994 RA 2019
4	Molybdenum as Mo	mg/l	<0.02	0.07	1S 3025 (Part 2)



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AUG 23-Ba/20



MY WORLD CONSULTANCY SERVICES PRIVATE LIMITED (TESTING LABORATORY) GST NO: 21AADCT4043NIZE CIN: U725010R2010PTC011651

Report No. : WCS2308W06

42	Nickel as Ni	Ing/I	<0.01	0.02	18 3025 (Part 54): 2003 RA 2019
43	Polynuclear aromatic hydro- carbons as PAH	Pam	<0.0001	0.0001	APHA 6440
44	Total arsenic as As	ngi	<0.001	0.01	IS 3025 (Part 37):2022

Chahitary Reviewed by

(Mr. Bijaya Kumar Chahataray)

Authorized Signatory (Mr. Pradeept Mohapatra)

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N.B.:

O The results relate to the sample received in respect to the Parameters tested.

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ANNEXURE 3

HEALTH CHECK REPORT



LIST OF EMPLOYEES UNDERGONE IME/PME HELD DURING OCTOBER 2023

UTKAL D & E COAL MINES, UCMIPL MDO OF NALCO LTD.

C.ND.	NAME	DESIGNATION	887	.408	A.R. NO.	NETHE	комикна
DL-0854	ALOK PALAI	GET RECORD KEEPER	10	24		INE	PITFOR EMPLOYMENT
UL-0935	MD AZHARUDDIN	ASST. SURVEYOR	- 24	31		WE.	FIT FOR EMPLOYMENT
CL-0336	YENRANNA PADISETTI	MESS SUPERVISOR	11	-69	1.5	ME	FIT FOR EMPLOYMENT
EL-4357	MADAN LAL MAHANTA	COOK	48	45		IMT .	FIT FOR EMPLOYMENT
DL-0350	GHASHI KUMAR MAHTO	SURVEY HELPER	40	-21	1	ME:	FIT FOR EMPLOYMENT
DL-0359	SAROJ KUMAR SARANGI	\$8. CHEMIST	21	28	8.8	IVE.	FIT FOR EMPLOYMENT
DL-0366	T B SAURAT KESHARI PATRA	IN CHEMIST	- 39	22		IVE	FIT FOR EMPLOYMENT
DL-0381	KALAMDI PISADISAN	SURVEY HELPER	32	25		WE	FIT FOR EMPLOYMENT
DL-0082	PARTHA BAURI	SUPERVISOR(CIVIL)	21	90	*	ME	FIT FOR EMPLOYMENT
DL-DM3	SRIDHAR MANTRI	SURVEY HELPER	30	24	100	ME	FIT FOR EMPLOYMENT
DL-0354	RAMETH KUMAR PRACHAN	SUPERVISOR(TRANSPORT)	24	54		INE	FIT FOR EMPLOYMENT
DL-6865	ANGANINATH DAG	OFFICE BOY	24	10	- X	INFE	FIT FOR EMPLOYMENT
DE-6368	BOOPATH PARTHA SASATHI SATYA	2ND CLASS MINES MANAGER	18	29		INC	FIT FOR EMPLOYMENT
DE-0367	MO TAPATIOON	DOZER OPERATOR	-29	64		EVE:	FIT FOR EMPLOYBERT
D1351	EHIEKANTA MAYAK	DOZER OPERATOR	-54	32	1	EME.	FIT FOR EMPLOYMENT
EX,-8393	ASHOR GOPE	UMV MECHANIC	22	34	÷	IME.	FIT FOR EMPLOYMENT
Di4370	MEANJAM PAREDA.	COADER OPERATOR	24	34		IM2	FIT FOR EMPLOYMENT
0.4371	LAXMEDHAR JENA	ABST. CODK	34	65	- C	IME	FIT FOR EMPLOYMENT
DL-0372	SRIKANTA JENA	JH. ENDIVEER	-55	25	•	INE	FIT FOR EMPLOYMENT
DT-0853	RAREBIN RUWAR SAHOO	OVERMAN	29	28		IME	FIT FOR EMPLOYMENT
DL 0374	SANESWAR DEHURY	CODK	25	48		INE	FIT FOR EMPLOYMENT
DE-8075	AASUCERA RISMAL	STORE ASST.	48	21	*	BAE	FIT FOR EMPLOYMENT
DL-0376	DEEPAK KUNNAR JENA	PLONDER	21	20		801	TIT FOR EMPLOYMENT
BL-0377	LOKENORA SINGH	SUPERVISOR/HORITCULTURE)	28	30		DO:	FIT FOR EMPLOYMENT
DL-0378	KEHORE BADU BEELA	HEAD (ELECT)	33	16		(ARE	FIT FOR EXPLOYMENT
OL-0379	SHIV RAIM JHA	AGMENU)	-40	18	*	MAG .	FIT FOR EMPLOYMENT
01-0390	PNLI SATYANARAYANA	STORE INCHARGE	55	- 11	19 C	INC	FIT FOR EMPLOYMENT
ET-0084	BADAL NAXAR	DOUGH OPERATOR	28	37	. *	INE	RIT FOR EMPLOYMENT
06-6082	SAMA ADMARAYANA	STORE EXECUTIVE	27	44	•	INE	FIT FOR EMPLOYMENT
IDE-0285	DECACH DAIS	GET(FLECT)	44	23		INE	FIT FOR EMPLOYMENT
CL-0384	AMANDA CHANDRA SAHOO	COOK	20	49		INE	FIT FOR EMPLOYMENT
DL-0365	TALARIMADHU	BR. EMGINEER(CFVIL)	45	20		INE	FIT FOR EMPLOYMENT
DC-COMM	BRUSTI GRANDAR BARAL	DEPUTY MANAGER	20	35		IME	FIT FOR EMPLOYMENT
EX0397	SUBRAT KUMAR PAL	PHARMADIST	36	47	1.	INTE	FIT FOR EMPLOYMENT
01-4316	GID/THUN PAASAD	DITSEL TAKKER DRIVER	47	18		IME	FIT FOR EMPLOYMENT
DL-0309	SUKALA SANYASI NAIDU	DIESEL SUFERVISOR	18	11	*: I	IME	FIT FOR ENPLOYMENT
DL-0356	RAJECH KUMAR PATRA	STORE AGST.	31	27	*c.	IME	FIT FOR EMPLOYMENT
DC-0391	MOKA BRINNASA MAD	SR. ENGINEER(OVIL)	27	31	•	INC	FIT FOR EMPLOYMENT
DL-0392	CHITIKELA NARAJI	DIESIL TANKER DRIVER	30	35		IVE	FIT FOR CMPLOWNENT
01-1393	K4LIA GOUDA	PUMP OPERATOR	05	246		IVE	FIT FOR EMPLOYNEWT
00-0394	BURLA KALXAMA PRASAD NAISU	DIDSEL SUPERVISION	26	23		IME.	FIT FOR ENFLOWMENT
DL-0389	BATISH SHARMA	ASST. MANAGENTINES	23	37		INE	FIT FOR EMPLOYMENT
DL-COSB	SAMGRAM KESHARI PANDA	MAWAGER (LAND)	37	50		9.45	FIT FOR EMPLOYMENT
DL-63#7	SRIKANTA KUBIAR SWRIN	DED(LAND)	50	25		ME	FIT FOR EMPLOYMENT
01.4598	L R VENKATA SIVA RAMI REDOV	INCHARGE (SEWA)	35	53		ME	FIT FOR EMPLOYMENT
DL-8319	MUANCHALA MAHANTY	SUPERVISOR/MINING)	53	25		ME	FIT FOR EMPLOYMENT
	DEGAS SH SIWAN	SUPERMISOR(TRANSPORT)	25	23		ME	FIT FOR EXPLOYMENT
25000000	SAHDEV KUMANR	SUPERIASON(TRANSPORT)	23	27		IVE	FIT FOR EMPLOYMENT
DE-0402	JADANNATH MALIK	SUPERVISON(TRANSPORT)	27	34		IME	PITFOR EMPLOYMENT
	C See	crea.	5.0 Tag				and an interest

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Continuation Sheet

1.							
1	SANJAYYA KUMAR DENERA	SUPERVISOR/TILANSPORT)	24	25	34	H.	FIT FOR EMPLOYMENT
21.1413	Contraction of the second s	SUPERVISORITIANSPORTI	20	20	1. A	8.45	FIT FOR EMPLOYMENT
QL-0414		OVERWOOTH WAR OWER	30	30	- C4	ME	FIT FOR EMPLOYMENT
DE-0405	and the second se	ASST. WWACERMANG	30	85		ME	FIT FOR EMPLOYMENT
DL-0409		MESS SUPERVISIOR	25	23	4	IME	FIT FOR EMPLOYMENT
DL-0407		OCOX MEDS SOMEWWOODH	23	53		IME	PUT FOR EMPLOYMENT
01-6408	the second se		53	41	1.1	945	FIT FOR EMPLOYMENT
DLACOR		MANAGER (PROJECT)	41	20		ME	FIT FOR EMPLOYMENT
01-0419	SIEHIR KANAR	ASST. DOOK	00	32		ME	FIT FOR EMPLICYBIENT
05-0418	PRAVE OH KUMAR	DOZER OPERATOR	27	27		ME	FIT FOR EMPLOYINGNT
DE-0412	SANDERP KUMAR SAHU	OVERMAN/SIN INC]	- 17	23		IME	FIT FOR ENPLOYMENT
18.0113	TAPAS KARMAKAR	INCIDE 30(TRANSPORT)	30	41		849	PIT FOR ENFLOYMENT
DE-0414	ERADARAN BISWAL	SUPERVISOR(TRAVSPORT)	41	46		NE	FIT FOR ENPLOYMENT
DL-0415	ANT KINGS	HR EXECUTIVE(ADMM)	- 44	24		INE	FIT FOR EMPLOYMENT
01.0416	8 RANJAN	STORE EXECUTIVE	11	60	-	INC	FIT FOR EMPLOYMENT
DL-0417	KORAITRIMADHAM	MANAGER (FROJECT)	12	20		145	FIT FOR EMPLOYMENT
OF DATE.	MADHAE CHANDRA MALIK	TRIPOR DRIVER	14	29		845	FIT FOR EMPLOYMENT
DL-0419	BURESH NAYAK	ASST. COOK	25	62	+	80	FIT FOR UNPLOYMENT
DL-BKID	BACAGRUSHINA NALIK	DRIVER	AT	41	4.1.1	ME	FIT FOR EMPLOYMENT
DL 0421	BUNK BAHU	89. MANAGER/CC & TC)	41	24		INC	HT FOR EMPLOYMENT
DL-0452	SURECHAR DREP	LMY DAWER.	38	28	23	ME.	FIT FOR EUFLOYMENT
01.9433	SUSANTA HUMAN MALIK	VOLVD DRIVER	28	25	4	ALC: N	INT FOR EUPLOYMENT
DL-9424	YOGENORA KURAR CHANDRA	SUPERVISORICIMU	20	34	1	865	INT FOR EXPLOYVENT
DL DGS	EROCTABANDHU SANOD	CODK EXECUTIVE(PUTCKASE)	28	29		ME	FIT FOR EMPLOYMENT
DL-D418	RUPESH MOHMPATRA	EXECUTIVE/MIN	20	28	+	NE	FIT FOR EMPLOYMENT
DP-9434	SURAJ PADHI	WARADSK (SURVEY)	21	23	÷.	IME.	FIT FOR EMPLOYMENT
DL-0428	KONDURU SNA RAMARAJU	IN HE EXECUTIVE ADMINT	31	52	÷	MAX.	FIT FOR EXPLOYMENT
Triess.	DUDHIN KUMAR MOHAPATIDA	SUPERMEOR (BLANSPORT)	32	30		845	RIT FOR EMPLOYMENT
Drecia	DAYARA TANWAN JENA	SUPERVISOR(TRANSPORT)	30	26		0.65	REFOREMPLOYMENT
DL-8401	SHEDA FRADANNA EWANY	ASST. MANAGEN(ACCOUNTS)	25	sk		ME	RTFOR BIPLOYNERT
DI-BICE	GUDPUCI RATNABARU	VOLVO DRIVER	30	12		ME	FIT FOR EMPLOYMENT
01-0425	JITTEN DRA HUMAR MALLIN	VOLVO DRIVER	03	30		IME	FIT FOR EMPLOYMENT
DC-0124	DARESWAN MALLIK	NCHARGE[TRANSFORT]	20	20		INT	FIT FOR EMPLOYMENT
DL-0435	PYCOINTI SATYANAZAYANA	HILFER(07P)	28	30		IME .	FIT FOR EMPLOYMENT
DL-0436	JAVA SAT SH KAMANAN CHANCRASEXHAR	SUPERVISION(CRP)	20	100		D25	FIT FOR EMPLOYMENT
DL 4407		BLASTING HEUPER	- 19	37		BACK .	PIT FOR EMPLOYMENT
DL-1498	LABBODAR MAHANTA	BLASTING HELPER	ar .	30		112	FIT FOR EXPLOYUENT
DI-0138	RAISSENUMAR MALLICK	BLASTING HELPER	37	20		are .	PIT FOR EVPLOYNENT
DL-0449	ENGRED PATRA	BLASTING HELFER	30	34		INE	FIT FOR EMPLOYMENT
DL-041	RAJESH MONANTA	MINING MATERIANG	30	43		IME	PT FOR EMPLOYMENT
DL-8442 (R,-0443	UMMARISHETTI VENKAYA PULLAIKH ELEAYA KUMAR PHADHAN	INCHARCE (MARPARI)	42	40		IME	PIT FOR EMPLOYMENT

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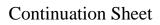
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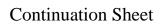


TOP SOIL DUMP



<u>OB DUMP</u>







WATER SPRINKLING





Continuation Sheet



DRILL MACHINE WITH WATER SPRINKLER



SURFACE MINER



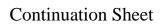


Continuation Sheet



WATER SPRINKLING ON COAL STOCK YARD









MIST CANON





Continuation Sheet



SETTLING POND







DIVERTION OF NALLAH







NALLAH EMBANKMENT





Continuation Sheet

VEHICLE WHEEL WASHING STATION



PLANTATION







