

अनिल कुमार जैन, भा०प्र०से०

सचिव

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**SECRETARY**

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भारत सरकार  
GOVERNMENT OF INDIA  
कोयला मंत्रालय  
MINISTRY OF COAL  
शास्त्री भवन, नई दिल्ली-110 001  
SHASTRI BHAWAN, NEW DELHI-110 001  
www.coal.gov.in

H0111/1/2019-Coord.

Dated 13<sup>th</sup> January, 2020

Dear Sir,

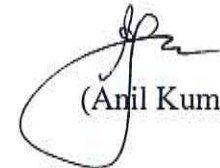
I am enclosing herewith the monthly report in respect of Ministry of Coal for the month of December, 2019:

- Overall coal production of CIL was 58.007 MT as compared to 54.14 MT i.e. a growth of 7.2% as compared to the corresponding month of last year.
- Coal production of CIL during December, 2019 was 58.01 MT as compared to 50.02 MT during November, 2019 with a growth of 15.97%.
- Overall coal offtake of CIL was 53.63 MT as compared to 52.61 MT i.e. a growth of 1.9 % as compared to the corresponding month of last year.
- Coal dispatch by CIL to Power Sector was 42.10 MT as compared to 42.91 MT of corresponding month of last year.
- Outstanding dues payable by Power Sector to CIL as on 31.12.2019 were Rs. 10,849.62 crore.

*With regards,*

Encl: As above

Yours sincerely,

  
(Anil Kumar Jain)

Shri Rajiv Gauba,  
Cabinet Secretary,  
Cabinet Secretariat,  
Rashtrapati Bhawan,  
New Delhi

## REPORT OF THE MINISTRY OF COAL FOR THE MONTH OF DECEMBER, 2019

S. N	Significant inputs	Status																																																
1.	Important policy decisions taken and major achievements during the month	<p>(a) Initiatives being taken in regard to de-allocated coal block</p> <ul style="list-style-type: none"><li>Six coal mines viz. Durgapur II Taraimar/Durgapur II Sariya( two mines), Mandakini, Utkal C, Sugia Closed Mine and Tokisud North have been allotted to Central/State PSUs.</li><li>Two coal mines Rohne and Radhodhih OCP have allocated under Rule 11(10) of CMSP Rules 2014 on 16.12.2019.</li><li>Five coal mines viz. Bikram, Brahampuri, Bhaskarpara, Jagannathpur B and Jamkhani have been allocated through e-auction.</li><li>Production in the month of December, 2019 from coal mines allocated under CM(SP) Act, 2015 as per preliminary report is Rs. 2.86 Million Tonne.</li><li>Revenue in the month of December, 2019 from coal mines allocated under CM(SP) Act, 2015 is Rs. 119.33 Crore INR.</li><li>Directions of the Central Government have been issued on 16.12.2019 to the Nominated Authority informing that 2 coal blocks namely Rohne and Rabodih OCP coal mine has been allotted to NMDC Limited and andRashtriyaspat Nigam Limited respectively under the provisions of CM(SP) Act, 2015 read with rule 11(10) of the CM(SP) Rules, 2014. Further, Nominated Authority has been directed to execute an Allotment Order in favour of the successful allottees in accordance with Rule 8(2)(a)(ii) Rule 11(1) of the CM(SP) Rules, 2014.</li><li>Vide O.M. dated 16.12.2019, Nominated Authority has been conveyed that their recommendations of preferred allottees in respect of allotment of 6 coal mines has been approved by Competent Authority. Further, Nominated Authority has been directed to issue allotment order in favour of the successful allottees. Details of mines allotted is as under:</li></ul> <table><tr><th>S.No.</th><th>Coal Mine</th><th>Location of the Mine</th><th>Name of the Allottee</th></tr><tr><td>1-2</td><td>Durgapur-II/Taraimar&amp; Durgapur-II/Sarya</td><td>Chhattisgarh</td><td>Karnataka Power Corporation Limited</td></tr><tr><td>3</td><td>Mandakini</td><td>Odisha</td><td>Karnataka Power Corporation Limited</td></tr><tr><td>4</td><td>Utkal-C</td><td>Odisha</td><td>Gujarat State Electricity Corporation Limited</td></tr><tr><td>5</td><td>Sugia Closed Mine</td><td>Jharkhand</td><td>Jharkhand State Mineral Development Corporation Limited</td></tr><tr><td>6</td><td>Tokisud North</td><td>Jharkhand</td><td>NMDC Limited</td></tr></table> <ul style="list-style-type: none"><li>Vide O.M.'s dated 04.12.2019; Nominated Authority has been conveyed that their recommendations of preferred bidders in respect of auction of 6 coal mines have been approved by Competent Authority. Further, Nominated Authority has been directed to issue vesting order in favour of the successful bidders. Details of mines auctioned is as under:</li></ul> <table><tr><th>S.No.</th><th>Coal Mine</th><th>Location of the Mine</th><th>Name of the Allottee</th></tr><tr><td>1.</td><td>Jamkhani</td><td>Odisha</td><td>Vedanta Limited</td></tr><tr><td>2.</td><td>Bikram</td><td>Madhya Pradesh</td><td>Birla Corporation Limited</td></tr><tr><td>3.</td><td>Brahampuri</td><td>Madhya Pradesh</td><td>Birla Corporation Limited</td></tr><tr><td>4.</td><td>Bhaskarpara</td><td>Chhattisgarh</td><td>Prakash Industries Limited</td></tr><tr><td>5.</td><td>Jaganathpur B</td><td>West Bengal</td><td>Powerplus Traders Private Limited</td></tr></table> <ul style="list-style-type: none"><li>The Coal Controller Organization has reported that the total production of coal from the allocated captive coal blocks for the month of December, 2019 is 5.253 Million Tonnes (Prov.), out of which aggregate coal production of those coal blocks which have not been cancelled by the Hon'ble Supreme court viz. Moher&amp;MoherAmloriExtn. (1.507 MT), Tasra (0.000 MT) and PakriBarwadiah (0.883 MT) is 2.390 Million Tonnes (Prov.)</li></ul>	S.No.	Coal Mine	Location of the Mine	Name of the Allottee	1-2	Durgapur-II/Taraimar& Durgapur-II/Sarya	Chhattisgarh	Karnataka Power Corporation Limited	3	Mandakini	Odisha	Karnataka Power Corporation Limited	4	Utkal-C	Odisha	Gujarat State Electricity Corporation Limited	5	Sugia Closed Mine	Jharkhand	Jharkhand State Mineral Development Corporation Limited	6	Tokisud North	Jharkhand	NMDC Limited	S.No.	Coal Mine	Location of the Mine	Name of the Allottee	1.	Jamkhani	Odisha	Vedanta Limited	2.	Bikram	Madhya Pradesh	Birla Corporation Limited	3.	Brahampuri	Madhya Pradesh	Birla Corporation Limited	4.	Bhaskarpara	Chhattisgarh	Prakash Industries Limited	5.	Jaganathpur B	West Bengal	Powerplus Traders Private Limited
S.No.	Coal Mine	Location of the Mine	Name of the Allottee																																															
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- Land acquired under CBA (A&D) Act, 1957

Sl. No.	Notification issued	Remarks
i	u/s 9(1) of CBA (A&D) Act, 1957 one notification has been issued i.e. Mahamaya OCP (Sendhopara-II block), Bhatgaon Area, Dist. Surajpur, Chhattisgarh.	183.186 Ha. land acquired for SECL.

**(b) Performance of NLC India Limited in December, 2019**

	Unit	December 2019		December 2018	% Variation wrt		April 19 - December 19		April 18 - December 18	% Variation wrt	
		Target	Actual	Actual	Col 4 / Col 3	Col 4 / Col 5	Target	Actual	Actual	Col. 9 / Col. 8	Col. 9 / Col. 10
1	2	3	4	5	6	7	8	9	10	11	12
Overburden	LM <sub>3</sub>	137.00	119.50	152.33	-12.77	-21.55	1291.50	1190.72	1267.03	-7.80	-6.02
Lignite	LT	24.17	22.80	25.12	-5.67	-9.22	172.72	170.14	160.37	-1.49	6.09
Power Gross From											
TPS	MU	1860.00	1772.55	1927.91	-4.70	-8.06	15774.00	14826.71	14662.42	-6.01	1.12
Wind Power Plant	MU	1.06	0.98	0.47	-7.55	108.51	125.88	80.42	109.42	0.11	-4.96
Solar Power Plant	MU	111.16	97.32	39.86	-12.45	144.15	832.41	894.47	315.56	7.46	183.45
Grand Total Gross	MU	1972.22	1870.85	1968.24	-5.14	-4.95	16732.29	15801.60	15087.40	-5.56	4.73
Power Export From											
TPS	MU	1591.00	1520.03	1640.72	-4.46	-7.36	13499.00	12549.54	12321.45	-7.03	1.85
Wind Power Plant	MU	1.44	0.77	0.39	-46.53	97.44	123.78	77.61	99.28	-37.30	-21.83
Solar Power Plant	MU	111.10	97.22	39.75	-12.49	144.58	831.70	893.35	315.12	7.41	183.50
Grand Total Export	MU	1703.54	1618.02	1680.86	-5.02	-3.74	14454.48	13520.50	12735.85	-6.46	6.16

**(c) Monthly And Progressive Plan Expenditure Of Coal Companies For And Upto The Month Of December, 2019**

(Rs. in Crores)

Company	Total Plan Outlay (BE) for the year 2019-20 (Provisional)	Target Expenditure Dec, 2019	Actual Expenditure Dec, 2019 (Prov.)	% of Actual Expenditure to plan outlay for the month of Dec, 2019	Target of Cumulative Expenditure upto Dec, 2019	Cumulative Expenditure Upto the Month of Dec, 2019 (Prov.)	% of Actual Cumulative Expenditure to Plan outlay upto Dec, 2019
1	2	3	4	5	6	7	8
CIL	10000.00	893.07	494.33	55.35	4425.45	2930.06	66.21
SCCL	1850.00	185.00	213.21	115.25	1202.50	1123.09	93.40
NLCIL	8271.00	536.16	418.34	78.03	6365.78	4972.12	78.11
Total	20121.00	1614.23	1125.88	69.75	11993.73	9025.27	75.25

**(d) COAL PRODUCTION**

(Figs. In MT)

Company	December, 2019	December, 2018	% Growth	April-December, 2019	April-December, 2018	% Growth
CIL	58.02	54.14	7.2%	388.41	412.44	-5.8%
SCCL	5.71	6.0	-5.4%	46.7	45.6	2.6%

**(e) OVERALL OFFTAKE**

Company	December, 2019	December, 2018	% Growth	April-December, 2019	April-December, 2018	% Growth
CIL	53.63	52.61	1.9%	417.26	444.63	-6.2%
SCCL	5.59	6.07	-8.0%	46.37	49.11	-5.6%

**(f) COAL DESPATCH TO POWER (COAL AND COAL PRODUCTS)**

Company	December, 2019	December, 2018	% Growth	April-December, 2019	April-December, 2018	% Growth
CIL	42.10	42.91	-1.9%	334.27	363.61	-8.1%
SCCL	4.88	4.96	-1.5%	39.33	40.00	-1.7%

**Outstanding Dues:** -The outstanding dues payable by Power Sector to CIL as on 31.12.2019 was Rs. 10,849.62 crore.

**(g) SPOT E-AUCTION OF COAL**

Company	Coal Qty. Allocated Dec., 2019	Coal Qty. Allocated Dec., 2018	Increase over notified price	Coal Qty. Allocated April-Dec., 2019	Coal Qty. Allocated April-Dec., 2018	Increase over notified price
CIL	5.07	3.42	67%	21.25	22.26	66%

**(h) SPECIAL FORWARD E-AUCTION FOR POWER**

Company	Coal Qty. Allocated Dec., 2019	Coal Qty. Allocated Dec., 2018	Increase over notified price	Coal Qty. Allocated April-Dec., 2019	Coal Qty. Allocated April-Dec., 2018	Increase over notified price
CIL	0.51	--	15%	17.46	21.91	32%

**(i) EXCLUSIVE E-AUCTION FOR NON-POWER**

Company	Coal Qty. Allocated Dec., 2019	Coal Qty. Allocated Dec., 2018	Increase over notified price	Coal Qty. Allocated April-Dec., 2019	Coal Qty. Allocated April-Dec., 2018	Increase over notified price
CIL	2.00	0.62	41%	6.84	7.93	34%

**(j) SPECIAL SPOT E-AUCTION**

Company	Coal Qty. Allocated Dec., 2019	Coal Qty. Allocated Dec., 2018	Increase over notified price	Coal Qty. Allocated April-Dec., 2019	Coal Qty. Allocated April-Dec., 2018	Increase over notified price
CIL	-	1.50	-	0.66	2.00	30%

**(k) Implementation Status of Power Sector Linkage Policy (SHAKTI) dated 22.05.2017 and amended SHAKTI**

Sl. No.	Activity	Timeline/Status
A(i)	Sign FSA with pending LoA holders	Clearance given to Coal India Limited (CIL) to sign FSA with 10 LoA Holders having total commissioned capacity of 6550 MW.
B(i)	Linkages to State/Central PSUs	As on date, 23 TPPs have been granted linkage for a total



			capacity of 25340 MW.
(ii)	Linkages for IPPs having PPA based on domestic coal		<ul style="list-style-type: none"><li>• First round of Linkage auction conducted in September, 2017.</li><li>• Linkage booked by 10 plants of 9044 MW capacity for 27.18 MT quantity.</li><li>• FSAs have been executed with all the successful bidders.</li></ul>
	Amended B (ii) (i)		<ul style="list-style-type: none"><li>• 2<sup>nd</sup> round of SHAKTI B (ii) linkage auction has been concluded on 24.05.2019.</li><li>• Quantity of 2.97 MTPA has been booked by 8 bidders for a total capacity of 874.9 MW.</li><li>• Documents of 3 successful bidders verified and sent to concerned coal companies for signing of FSA.</li><li>• Other 5 bidders yet to submit documents.</li></ul>
	Amended B (ii) (ii)		<ul style="list-style-type: none"><li>• The recommendations of the IMC in its meeting dated 17.10.2019 have been approved by the Competent Authority and circulated to all.</li><li>• To address the issues regarding implementation of 3<sup>rd</sup> round auction under SHAKTI B (ii), a meeting was conducted by PFCCL on 16.12.2019.</li><li>• PFCCL/MoP to conduct auction. PFCCL has informed that EoI for 3<sup>rd</sup> round of auction under SHAKTI B (ii) is proposed to be issued by 09.01.2020.</li></ul>
(iii)	Linkages for IPPs without PPA		EOI floated by CIL and last date for registration and EOI submission was 24.12.2019, which has been extended to 07.01.2020 on the request of bidders. CIL likely to complete auction by 1 <sup>st</sup> week of February, 2020.
(iv)	Earmarking Linkages to States for fresh PPAs		Coal linkage granted from Coal India Limited for the States of Gujarat, Uttar Pradesh and Madhya Pradesh for a capacity of 4000 MW, 1600 MW and 2640 MW respectively.
(v)	Power aggregate of group of States		<ul style="list-style-type: none"><li>• Coal linkage earmarked from Coal India Limited for a capacity of 2500 MW.</li><li>• Methodology under B (v) is to be formulated by Ministry of Power. Bidding under SHAKTI B (v) is to be conducted by Ministry of Power.</li></ul>
(vi)	Linkages to SPV for setting up of UMPP		SBD under formulation by Ministry of Power.
(vii)	Linkages to IPPs having PPA based on imported coal.		IMC submitted its recommendation.
(viii)	(a) Short term linkage coal		<ul style="list-style-type: none"><li>• A methodology has been formulated by Ministry of Power and circulated vide letter dated 02.12.2019. CIL &amp; CEA has resolved the operational issues in a meeting conducted by CIL.</li><li>• NIA/EOI shall be published by CEA by 15.01.2020.</li><li>• Auction for 1<sup>st</sup> quarter 2020-21 shall be conducted during March, 2020.</li></ul>
	(b) Coal supply in case of termination of PPAs due to payment default by DISCOMs		<ul style="list-style-type: none"><li>• Ministry of Power vide O.M dated 30.08.2019 has communicated the adequate safeguards which may be considered.</li><li>• No action required from Ministry of Coal.</li></ul>
	(c) Aggregation of Power by Nodal Agency under Para B (v) for a group of States even without requisition.		<ul style="list-style-type: none"><li>• Vide O. M dated 17.05.2019 and subsequent reminder dated 29.05.2019, Ministry of Power has been requested to communicate the same.</li></ul>
	(d) PSU to act as an aggregator		<ul style="list-style-type: none"><li>• Ministry of Power vide O.M dated 05.08.2019 and 20.08.2019 has communicated the mechanism prepared</li></ul>

		<table><tr><td>of Power</td><td>in this regard.</td></tr><tr><td>(e) Mechanism to ensure servicing of debt</td><td></td></tr></table>	of Power	in this regard.	(e) Mechanism to ensure servicing of debt									
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		<p><b>(l)Promotional Drilling:</b>A programme of Promotional/NMET (Regional) drilling comprising 1.18 lakh meters in coal and 0.35 lakh meters in lignite has been drawn up in Annual Plan 2019-20 of CMPDI. The programme is under execution by MECL, DGMs of Nagaland &amp; Assam and CMPDI.</p> <p>As against this, the achievement of drilling upto the month of December, 2019 is 0.88 lakh metre, against the target of 1.03 lakh metre, which is 85% of the target.</p> <p><b>(m)Overall Progress of Detailed Drilling in 2019-20:</b>For 2019-20, a target of 14.00 lakh metre of drilling (Departmental: 5.05 lakh metre, Outsourcing: 8.95 lakh metre) has been envisaged. As against this, 8.90 lakh metre of drilling has been carried out upto the month of December, 2019 against the target of 9.32 lakh metre, which is 95% of the target</p>												
2.	Important policy matters held up on account of prolonged inter-Ministerial consultations	NIL												
3.	Compliance of CoS decisions	<table><tr><th>No. of CoS decisions pending for compliance</th><th>Proposed action plan/time lines for compliance of decisions</th><th>Remarks</th></tr><tr><td>Issues pertaining to Jharia and Raniganj Action Plan for Fire andSubsidence.</td><td>1. Experts of IIT, Kharagpur has conducted Electrical Resistivity survey on theunstable portion of NH-2 Bye pass road from 22.10.19 to 24.10.19 to detect underground mine workings.</td><td></td></tr><tr><td><b>CoS decisions</b>  1.MoRTH may take uprealignment of 300 m stretch ofNH 2 in Raniganj areaexpeditiously and hand over thestretch to ECL.</td><td>IIT, Kharagpur has submitted offer in connection with stabilization workhighlighting-the-financiantiract, scope of worki time period of completion. Theproposal to engage IIT, Kharagpur on nomination basis in connection withpermanent long-term stabilization of the existing NH-2 Bye pass road along withcertification will be placed in the ECL Board of Directors meeting to accordapproval.</td><td></td></tr><tr><td>2. M/o Coal and M/o Railway maymutually discuss the modalitiesfor financing the projectsregarding re-alignment of 145.6km of railway line in Jhariaregion and 20 km stretch inRaniganj region.</td><td>2. Submission of FSR by RITES to JRDA and Railway Board for diversion of137 km railway line in JCF), as indicated in the approved Master Plan a lumpsum provision of Rs. 20 Crore as advance action has been kept for surveyingand planning only. The detail proposal for diversion may be taken up as aseparate Master Plan in future.  The railway has not handed over the stretch of affected portion to BCCL evenafter regular persuasion. The operation on DC railway has been resumed from24.02.2019 on directives of Railway Board.</td><td></td></tr></table>	No. of CoS decisions pending for compliance	Proposed action plan/time lines for compliance of decisions	Remarks	Issues pertaining to Jharia and Raniganj Action Plan for Fire andSubsidence.	1. Experts of IIT, Kharagpur has conducted Electrical Resistivity survey on theunstable portion of NH-2 Bye pass road from 22.10.19 to 24.10.19 to detect underground mine workings.		<b>CoS decisions</b>  1.MoRTH may take uprealignment of 300 m stretch ofNH 2 in Raniganj areaexpeditiously and hand over thestretch to ECL.	IIT, Kharagpur has submitted offer in connection with stabilization workhighlighting-the-financiantiract, scope of worki time period of completion. Theproposal to engage IIT, Kharagpur on nomination basis in connection withpermanent long-term stabilization of the existing NH-2 Bye pass road along withcertification will be placed in the ECL Board of Directors meeting to accordapproval.		2. M/o Coal and M/o Railway maymutually discuss the modalitiesfor financing the projectsregarding re-alignment of 145.6km of railway line in Jhariaregion and 20 km stretch inRaniganj region.	2. Submission of FSR by RITES to JRDA and Railway Board for diversion of137 km railway line in JCF), as indicated in the approved Master Plan a lumpsum provision of Rs. 20 Crore as advance action has been kept for surveyingand planning only. The detail proposal for diversion may be taken up as aseparate Master Plan in future.  The railway has not handed over the stretch of affected portion to BCCL evenafter regular persuasion. The operation on DC railway has been resumed from24.02.2019 on directives of Railway Board.	
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4.	No. of cases of 'sanction for prosecution' pending for more than three months	NIL												
5.	Particulars of cases in which there has been a departure from the Transaction of	NIL												



	Business Rules or established policy of the Government																																																													
6.	Status of implementation of e-Governance	<p>a) Implementation of e-Governance in Ministry of Coal</p> <table><tr><td>Total No. of files</td><td>Total No. of e-files</td></tr><tr><td>22872</td><td>22872</td></tr></table> <p>b) Under the head initiatives to the Government's aim of "Minimum Government, Maximum Governance", the status of implementation of IT initiatives in CIL and its subsidiaries as on 30.12.2019 is given below:-</p> <table><tr><th>S.No.</th><th>Name of the item</th><th>Requirement</th><th>Implementation status as on date</th></tr><tr><td>1.</td><td>GPS/GPRS based Vehicle Tracking System</td><td>8689</td><td>8689</td></tr><tr><td>2.</td><td>Electronic Surveillance by CCTV</td><td>4037</td><td>3831</td></tr><tr><td>3.</td><td>RFID based Boom Barriers &amp; Readers</td><td>623</td><td>623</td></tr><tr><td>4.</td><td>Weigh Bridge Status</td><td>922</td><td>895</td></tr><tr><td>5.</td><td>Wide Area Networking</td><td>1269</td><td>1242</td></tr><tr><td>6.</td><td>Coal Net Implementation Status</td><td>50</td><td>47</td></tr></table> <p>c)Implementation of IT initiatives in NLC India Ltd. As on 30.12.2019</p> <table><tr><th>S.No.</th><th>Name of the item</th><th>Requirement</th><th>Implementation on status as on date</th></tr><tr><td>1.</td><td>GPS/GPRS based Vehicle Tracking System</td><td>As per need</td><td>50</td></tr><tr><td>2.</td><td>Electronic Surveillance by CCTV</td><td>As per need</td><td>292</td></tr><tr><td>3.</td><td>RFID based Boom Barriers &amp; Readers</td><td>As per need</td><td>7</td></tr><tr><td>4.</td><td>Weigh Bridge Status</td><td>As per need</td><td>18</td></tr><tr><td>5.</td><td>Wide Area Networking</td><td>Nil</td><td>Implemented</td></tr><tr><td>6.</td><td>Coal Net Implementation Status</td><td>Nil</td><td>Nil</td></tr></table>	Total No. of files	Total No. of e-files	22872	22872	S.No.	Name of the item	Requirement	Implementation status as on date	1.	GPS/GPRS based Vehicle Tracking System	8689	8689	2.	Electronic Surveillance by CCTV	4037	3831	3.	RFID based Boom Barriers & Readers	623	623	4.	Weigh Bridge Status	922	895	5.	Wide Area Networking	1269	1242	6.	Coal Net Implementation Status	50	47	S.No.	Name of the item	Requirement	Implementation on status as on date	1.	GPS/GPRS based Vehicle Tracking System	As per need	50	2.	Electronic Surveillance by CCTV	As per need	292	3.	RFID based Boom Barriers & Readers	As per need	7	4.	Weigh Bridge Status	As per need	18	5.	Wide Area Networking	Nil	Implemented	6.	Coal Net Implementation Status	Nil	Nil
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8.	Information on the specific steps taken by the Ministry/Department for utilization of the Space Technology based tools and applications in Government and Development	<p>Three project were identified for the future areas of use of Space Technology in CIL</p> <p>(i) <b>Air Pollution Monitoring:</b> CMPDI in collaboration with NRSC has taken up an R&amp;D project for regional air quality monitoring in coalfield areas using satellite data. The project has started in September 2017 after signing an agreement with NRSC. It is under progress.</p> <p>(ii) <b>Coal Mine Fire Mapping and subsidence mapping.</b> CMPDI is already mapping coal mine fire with the help of thermal satellite imagery regularly since year 2012. However, collaborative project with NRSC can be initiated for aerial flying using thermal sensor which can be used to map coal mine fire more accurately. It may be mentioned that NRSC is also doing coal mine fire mapping using satellite data for BCCL</p> <p>(iii) <b>Capacity Building in CMPDI for SAR interferometry towards Fire and Subsidence Mapping.</b> Capacity building in CMPDI for SAR interferometry has already been done. Two executives from CMPDI were sent to NRSC for training in SAR Interferometry.</p>																																																												

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