

डॉ. इन्द्र जीत सिंह

सचिव

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SECRETARY

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सत्यमेव जयते

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

DO No.H0111/1/2017-Coord.

16.10.18

Dear Sir,

I am enclosing herewith the monthly report in respect of Ministry of Coal for the month of September, 2018.

With Regards

Yours sincerely,

(Inder Jit Singh)

Encl: As above

Shri Pradeep Kumar Singh
Cabinet Secretary,
Cabinet Secretariat,
Rashtrapati Bhawan,
New Delhi

REPORT OF THE MINISTRY OF COAL FOR THE MONTH OF SEPTEMBER, 2018

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">6th meeting of Monitoring Committee headed by secretary was conducted on 05/09/2018 to review the progress of coal mines allocated through auction/allotment in the States of Odisha, Maharashtra, Madhya Pradesh and Telangana.Review Meeting headed by Joint Secretary was held on 20/9/2018 regarding under producing /non producing mines scheduled to be operational by March 2019.The production during the month of August, 2018 is 1.73 Million Tonne.The Revenue during the month of September is 108.27 Cr. <p>CAPEX</p> <table><tr><td></td><td>CIL</td><td>NLCIL</td></tr><tr><td>Target for 2018-19</td><td>9500 cr</td><td>7645 cr</td></tr><tr><td>Achievement of September, 2018</td><td>540.93 cr</td><td>100.87 cr</td></tr><tr><td>Achievement till September, 2018</td><td>2087.45 cr</td><td>2150.27 cr</td></tr><tr><td>Percentage Achievement till September, 2018</td><td>21.97 %</td><td>28.13 %</td></tr></table> <ul style="list-style-type: none">“The Coal Controller Organization has reported that the total production of Coal from the allocated captive coal blocks for the Month of September, 2018 is 3.392 Million Tonnes (Provisional). However, it is informed that out of the above mentioned coal production, coal production from coal blocks which have not been cancelled by the Hon’ble Supreme Court viz. Moher & Moher Amlori Extn., Tasra and Pakri Barwadih is 1.886 Million Tonnes (Provisional). <p>Land acquired under CBA (A&D) Act, 1957 (LA&IR Section)</p> <table><tr><td>Sl. No.</td><td>Notification issued</td><td>Remarks</td></tr><tr><td>i.</td><td>U/s 4(1) of CBA (A&D) Act, 1957 for CCL’s Project.</td><td>207.91 acre land for prospecting of Coal</td></tr><tr><td>ii.</td><td>U/s 11(1) of CBA (A&D) Act, 1957 for CCL’s Project.</td><td>2596.02 acre of land for vesting</td></tr></table> <ul style="list-style-type: none">Details of compensation and employment against acquired land by CIL and its subsidiaries as on 31.8.2018(except CCL) <table><tr><td>Subsidiaries of CIL</td><td>Total compensation amount paid during the last month to the tenancy land(Rs. in Cr)</td><td>Area of Tenancy land for which compensation amount paid during the last month (In Ha.)</td><td>Nos. of Employment provided during the last month</td><td>No. of persons whom one time monetary compensation paid in lieu of employment during the last month</td><td>Total amount incurred during the last month as one – time monetary compensation in lieu of employment(In Cr)</td></tr><tr><td>NCL</td><td>14.95</td><td>14.812</td><td>0</td><td>0</td><td>0</td></tr><tr><td>ECL</td><td>1.91</td><td>12.137</td><td>12</td><td>29</td><td>0.3574325</td></tr><tr><td>WCL</td><td>9.67</td><td>50.45</td><td>6</td><td>14</td><td>3.55</td></tr><tr><td>BCCL</td><td>0.7459687</td><td>2.2865</td><td>6</td><td>Nil</td><td>Nil</td></tr><tr><td>SECL</td><td>26.250</td><td>109.107</td><td>14</td><td>12</td><td>0.62</td></tr><tr><td>MCL</td><td>21.036</td><td>35.884</td><td>172</td><td>6</td><td>0.63</td></tr><tr><td>NEC</td><td>Nil</td><td>Nil</td><td>Nil</td><td>Nil</td><td>Nil</td></tr></table>		CIL	NLCIL	Target for 2018-19	9500 cr	7645 cr	Achievement of September, 2018	540.93 cr	100.87 cr	Achievement till September, 2018	2087.45 cr	2150.27 cr	Percentage Achievement till September, 2018	21.97 %	28.13 %	Sl. No.	Notification issued	Remarks	i.	U/s 4(1) of CBA (A&D) Act, 1957 for CCL’s Project.	207.91 acre land for prospecting of Coal	ii.	U/s 11(1) of CBA (A&D) Act, 1957 for CCL’s Project.	2596.02 acre of land for vesting	Subsidiaries of CIL	Total compensation amount paid during the last month to the tenancy land(Rs. in Cr)	Area of Tenancy land for which compensation amount paid during the last month (In Ha.)	Nos. of Employment provided during the last month	No. of persons whom one time monetary compensation paid in lieu of employment during the last month	Total amount incurred during the last month as one – time monetary compensation in lieu of employment(In Cr)	NCL	14.95	14.812	0	0	0	ECL	1.91	12.137	12	29	0.3574325	WCL	9.67	50.45	6	14	3.55	BCCL	0.7459687	2.2865	6	Nil	Nil	SECL	26.250	109.107	14	12	0.62	MCL	21.036	35.884	172	6	0.63	NEC	Nil	Nil	Nil	Nil	Nil
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(b) Performance of NLC India Limited in September, 2018.

	Unit	September 2018		September 2017	% Variation wrt		April 18 - September 18'		April 17 - September 17	% 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 ³	126.00	146.10	124.71	15.95	17.15	753.50	865.51	958.49	14.87	-9.70
Lignite	LT	24.45	23.57	30.38	-3.60	-22.42	102.20	99.41	101.26	-2.73	-1.83
Power Gross From											
TPS	MU	1547.00	1562.34	1690.49	0.99	-7.58	10277.00	9347.09	10166.71	-9.05	-8.06
Wind Power Plant	MU	21.95	15.16	13.72	-30.93	10.50	112.30	107.00	106.25	9.29	3.82
Solar Power Plant	MU	41.98	45.08	1.35	7.38	778.75	157.91	202.52	12.21	28.25	1558.64
Grand Total Gross	MU	1610.93	1622.58	1709.34	0.72	-5.08	10547.21	9656.61	10285.17	-8.44	-6.11
Power Export From											
TPS	MU	1302.00	1306.14	1418.32	0.32	-7.91	8659.00	7817.31	8503.14	-9.72	-8.07
Wind Power Plant	MU	21.95	12.96	13.29	-40.96	-2.48	112.30	97.15	102.41	-13.49	-5.14
Solar Power Plant	MU	41.98	45.08	5.13	7.38	778.75	157.91	202.52	12.21	28.25	1558.64
Grand Total Export	MU	1365.93	1364.18	1436.74	-0.13	-5.05	8929.21	8116.98	8617.76	-9.10	-5.81

(c) Monthly and progressive Plan Expenditure of Coal Companies for and upto the month of September, 2018
(Rs. in Cr)

Company	Total Plan Outlay for the year 2018-19	Target Expenditure (Sept., 2018)	Actual Expenditure Sept., 2018 (Prov.)	% of Actual Expenditure to plan outlay for the month of Sept., 2018	Target of Cumulative Expenditure up to Sept., 2018	Cumulative Expenditure Up to the Month of (Sept., 2018 (Prov.)	% of Actual Cumulative Expenditure to Plan outlay up to Sept., 2018
1	2	3	4	5	6	7	8
CIL	9500.00	471.87	540.93	114.6	2265.27	2087.45	92.2
SCCL	2000.00	153.33	71.97	46.9	859.99	418.32	48.6
NLCIL	7645.00	686.85	444.07	64.7	3544.28	2150.27	60.7
Total	19145.00	1312.05	1056.97	80.6	6669.54	4656.04	69.8

(d) COAL PRODUCTION

(Figs. In MT)

Company	September, 2018	September, 2017	% Growth	April-Sept., 2018	April-Sept., 2017	% Growth
CIL	40.2	38.8	3.8%	256.5	231.9	10.6%
SCCL	5.1	4.5	12.6%	28.5	27.8	2.6%

(e) OVERALL OFFTAKE

Company	September, 2018	September, 2017	% Growth	April-Sept., 2018	April-Sept., 2017	% Growth
CIL	43.9	43.6	0.8%	290.8	269.0	8.1%
SCCL	5.1	4.7	9.3%	31.1	29.9	3.8%

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

Company	September, 2018	September, 2017	% Growth	April-Sept, 2018	April-Sept, 2017	% Growth
CIL	35.1	35.4	-0.9%	231.3	211.1	9.6%
SCCL	4.2	4.0	6.9%	25.4	25.0	1.7%

Outstanding Dues: The outstanding dues payable by Power Sector to CIL as on 30.09.2018 is Rs. 7573.48 crore (Provisional)

(g) SPOT E-AUCTION OF COAL

Company	Coal Qty. Allocated September, 2018	Coal Qty. Allocated September, 2017	Increase over notified price	Coal Qty. Allocated April-Sept., 2018	Coal Qty. Allocated April-Sept., 2017	Increase over notified price
CIL	2.58	3.05	102%	17.69	22.14	88%

(h) SPECIAL FORWARD E-AUCTION FOR POWER

Company	Coal Qty. Allocated September, 2018	Coal Qty. Allocated September, 2017	Increase over notified price	Coal Qty. Allocated April-Sept., 2018	Coal Qty. Allocated April-Sept., 2017	Increase over notified price
CIL	3.17	1.30	55%	20.38	21.33	74%

(i) EXCLUSIVE E-AUCTION FOR NON-POWER

Company	Coal Qty. Allocated September, 2018	Coal Qty. Allocated September, 2017	Increase over notified price	Coal Qty. Allocated April-Sept., 2018	Coal Qty. Allocated April-Sept., 2017	Increase over notified price
CIL	-	1.17	-	7.30	6.65	70%

(j) SPECIAL SPOT E-AUCTION

Company	Coal Qty. Allocated September, 2018	Coal Qty. Allocated September, 2017	Increase over notified price	Coal Qty. Allocated April-Sept., 2018	Coal Qty. Allocated April-Sept., 2017	Increase over notified price
CIL	0.50	-	-	0.50	0.35	54%

Action Plan and Progress on implementation of Power Sector Linkage Policy dated 22.05.2017

Sl. No.	Activity	Timeline/Status
A(i)	Sign FSA with pending LoA holders	• Clearance given to CIL to sign FSA with 6LoA Holders having total commissioned capacity of 4730 MW
(ii)	Closure of pending applications (By MoC)	• Implemented • Notice published through DAVP and on MoC website
(iii)	Continuation of coal supply to 68,000 MW @ 75% of ACQ	• Implemented
(iv)	Coal supply to 19,000 MW (out of 68,000 MW) which could not be commissioned by 31.03.2015	• Coal supply started for commissioned plants
(v)	Eligibility to draw coal for medium term PPAs	• Coal companies enabled to supply coal
B(i)	Linkages to State/Central PSUs	• As on date, 18 TPPs have been granted linkage for

				total capacity of 21880 MW.									
	(ii)	Linkages for IPPs having PPA based on domestic coal		<ul style="list-style-type: none">• Linkage auction conducted from 11th to 13th September, 2017.• Out of the maximum Allocable Quantity of 27.18 MT, almost all the allocable quantity was booked.• FSAs have been executed with 7 of the 10 successful bidders.• FSA with 1 bidder is under execution and with 2 bidders; it is pending due to non-submission of approval of PPA documents.									
	(iii)	Linkages for IPPs without PPA		<ul style="list-style-type: none">• CIL invited Expression of Interest (EoI) from prospective bidders, the last date for submission of which was 18.01.2018.• Process was put on hold as the issue of eligibility criteria was taken up for further deliberation.• CIL had requested for certain clarifications with regard to the auction of coal linkages under para B (iii). Clarifications have been issued.									
	(iv)	Earmarking Linkages to States for fresh PPAs		<ul style="list-style-type: none">• Policy guidelines have been framed by Ministry of Power. Yet to be communicated to MoC.									
	(v)	Power aggregate of group of States		<ul style="list-style-type: none">• Methodology to be formulated by MoP									
	(vi)	Linkages to SPV for setting up of UMPP		<ul style="list-style-type: none">• Recommendations to be received from MoP									
	(vii)	Linkages to IPPs having PPA based on imported coal.		<ul style="list-style-type: none">• Without adversely impacting the coal availability to other domestic coal based plants• IMC constituted for framing methodology• Methodology to be reviewed next year.									
	C.	Issues arising or are likely to arise during course of implementation of SHAKTI Policy.		<ul style="list-style-type: none">• IMC constituted to consider such issues.• 4 meetings of IMC have been held.• Recommendation of IMC in its 4th meeting has been approved by the Competent Authority and has been circulated on 25.07.2018.									
	<p>Promotional Drilling:A programme of Promotional/NMET (Regional) drilling comprising 1.10 lakh meters in coal and 0.90 lakh meters in lignite has been drawn up in Annual Plan 2018-19 of CMPDI. The programme is under execution by MECL, DGMs of Nagaland & Assam and CMPDI.</p> <p>As against this, the achievement of drilling upto the month of September, 2018 is 0.54 lakh meter, against the target of 0.78 lakh meter, which is 69% of the target.</p> <p>Overall Progress of Detailed Drilling in 2018-19:For 2018-19, a target of 13.00 lakh meter of drilling (Departmental: 4.80 lakh meter, Outsourcing: 8.20 lakh meter) has been envisaged in the Annual Plan of MoC. As against this, 6.37 lakh meter of drilling has been carried out up to the month of September, 2018 against the target of 5.49 lakh meter, which is 116% 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><td>No. of CoS decisions pending for compliance</td><td>Proposed action plan/time lines for compliance of decisions</td><td>Remarks</td></tr><tr><td>Issues pertaining to Jharia and Raniganj Action Plan for Fire and Subsidence.</td><td></td><td></td></tr><tr><td>CoS decisions</td><td></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 and Subsidence.			CoS decisions		
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	<p>1. Govt. of West Bengal may examine the possibility of taking up housing under rehabilitation in multi-storied pattern in urban areas and a suitable configuration in rural areas to economies the requirement of land.</p> <p>2. M/o Coal may examine the request of G/o Jharkhand to entrust the work of construction of dwelling units for rehabilitation to a suitable Central PSU.</p> <p>3. Govt. of Jharkhand may expedite the shifting of R.S.P. College, Jharla to a suitable location</p>	<p>1. ADDA has taken up Demographic survey. As per the ongoing Demographic surveys, 375 acres land is required for shifting of around 30,000 families out of which land identified so far is 172.05 acres. Construction of 160 flats for rehabilitation of families from the affected areas has been started from 10.03.2017.</p> <p>Work for further construction of 3024 flats at mouza Bijoyanagar & Daskeary has been started from 19.03.2018. Completion time is 450 days from 19.03.2018 i.e. date of issue of work order.</p> <p>Work order for further construction of 1904 flats at mouza Namokeshia has been awarded on 19.03.2018. Completion time is 365 days from the date of issue of work order. At the said resettlement site work suspended temporarily due to resistance of local people. Dist. Administration is expediting to resolve the issues/demand so that work can be started within this month. After intervention of District Administration construction activity has been started from 25.07.2018 under police protection.</p> <p>Tender for 5664 flats at Andal BAPL land as opened on 10.05.2018. Letter of acceptance/ notification of award was issued to the successful Bidder on 13.06.2018. The time of 548 days allowed for execution of the work will be reckoned from the date of handing over possession of the site. Work has been started from 13.07.2018.</p> <p>Tender for 2224 flats at mouza Daskeary was opened on 23.04.2018. Letter of acceptance/ notification of award was issued to the successful Bidder on 26.06.2018. The time of 450 days allowed for execution of the work will be reckoned from the date of handing over possession of the site. Work has been started 13.07.2018.</p> <p>2. JRDA has taken action for construction of 12352 houses for rehabilitation of non BCCL families. So far, 6352 houses Constructed by JRDA. 2122 families shifted 4000 houses under Construction and tendering for 2000 houses under progress.</p> <p>Reassessment is being done by JRDA taking the help of NGO. After completion of survey, rehabilitation shall be expedited.</p> <p>Out of 15852 quarters to be constructed for BCCL families, 7639 quarters have been constructed, 6668 houses allotted, remaining 8213 are under construction. 3805 families have been shifted in BCCL constructed houses.</p> <p>3. During 16th HPCC meeting held on 23rd August, 2018, DC Dhanbad informed that land acquisition for RSP College is still pending with BCCL. It was mentioned that after getting the land, JRDA will construct a permanent college within 2 (two) years. BCCL was advised to take necessary immediate</p>	
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		<p>4. MoRTH may take up realignment of 300 m stretch of NH 2 in Raniganj area expeditiously and hand over the stretch to ECL.</p> <p>5. The alternative road suggested by BCCL between Godhur and Putki may be brought to proper standards and handed over to NHAI so that the corresponding section of NH 32 can be handed over by NHAI to BCCL.</p> <p>6. M/o Coal and M/o Railway may mutually discuss the modalities for financing the projects regarding re-alignment of 145.6 km of railway line in Jharia region and 20 km stretch in Raniganj region.</p>	<p>action. BCCL has take-up the matter with MoC.</p> <p>4. As discussed during 15th HPCC meeting In regard to 300 m stretch of NH 2 under unstable area, a committee was constituted under DG, DGMS with DDG central zone and DDG Eastern zone to examine all available reports and re-assess the danger associated and need for shifting/strengthening the road.</p> <p>Accordingly, three meetings were held under the Chairmanship of DG, DGMS i.e. on 21.03.2018 at DGMS office, Sitarampur and on 19.04.2018 & 17.05.2018 at DGMS office, Dhanbad where representatives from ECL and NHAI were present. Due to non-availability of authentic mine plan to calculate the actual area of extended u/g workings to ascertain the void area to be filled up. DG expressed his doubt about long term stabilization of the area through back filling technique.</p> <p>DG opined that further investigation by a Scientific Body may be engaged to study the condition beneath the NH-2 and may suggest measures if any, to ensure long term stability of the unstable portion of the NH-2 road.</p> <p>Final recommendation of DG, DGMS is awaited.</p> <p>5. NH-32 was not included in the approved Master Plan. However, it was decided that NHAI is required to switch over to newly constructed part between Godhur and Putki, and hand over the fire affected part to BCCL.</p> <p>BCCL requested the Executive Engineer, NH Div, Dhanbad for inclusion of the clause (mentioned below) in the draft lease agreement submitted by NH Div. The clause is:- <i>"The lease rent will be payable to NH Division, Dhanbad with effect from the date when physical possession free from all encumbrances and encroachment of the total land / patch in question is handed over to BCCL."</i></p> <p>Draft lease agreement forwarded by National Highway Wing, RCD, Jharkhand yet to be finalized by MORTH, Govt. of India.</p> <p>BCCL are in regular persuasion of the matter with NH division.</p> <p>6. Ministry of Railway has stopped the running of trains on Dhanbad-Chandrapura Railway Line since 15.6.2017. BCCL is regularly requesting Railway Authority for handing over stretch of DC Railway line for fire dealing. Secretary (Coal) has written a DO letter to Chairman, Railway Board on 29th August, 2018 in this regard. During the 16th HPCC meeting held on 23rd August, 2018, the representative of Railway Board was also advised to follow up for expediting the issue</p> <p>In respect of modalities for financing of project for realignment of railway lines in the fire affected</p>		
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		<p>areas it was informed by representative of Ministry of Railways (in the HPCC meeting held on 23rd Nov'2017) that Railways have taken a decision for construction of the line from Dhanbad-Nisitpur-Tundu at the cost of about Rs 590 cr.</p> <p>In reference to letter of ED (L&A)-I, Railway Board dated 23rd Aug, 2018 demanding for comprehensive proposal under provision of GFR to hand over the land to BCCL, CMD, BCCL has sent a reply on 14th September, 2018 to ED (L&A)-I, Railway Board requesting issuance of NOC regarding the said railway land to combat the fire with and around the railway line</p> <p>Director (Tech) Operation, BCCL met ED (L&A)-I, Railway Board, New Delhi on 19.9.18 and GM (ECR) at Hajipur on 26.9.18. and as per the discussion held, Railway has agreed to handover the land to BCCL with due official formalities.</p>																																	
		<ul style="list-style-type: none">A meeting of the CoS meeting on Bithnok Thermal Power Project was held on 15th June, 2017 in which it was decided that Ministry of Power may explore the possibility of sale of power from these two projects to other States who may have signed higher tariff PPAs with projects where no investment has been made. Currently the MoP has sought clarifications from all the States/UTs. Replies from 10 states have been received so far in Ministry of Power. Replies from remaining states are yet to be received. MoC has requested Ministry of Power vide letter dated 10th May, 2018 to send the updated Action Taken Report in the matter. Action Taken Report is yet to be received from Ministry of Power.																																	
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 Business Rules or established policy of the Government	NIL																																	
6.	Status of implementation of e-Governance	<table><tr><td>Total No. of files</td><td>Total No. of e-files</td></tr><tr><td>18739</td><td>18739</td></tr></table> <p>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 25.09.2018 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>8683</td><td>8683</td></tr><tr><td>2.</td><td>Electronic Surveillance by CCTV</td><td>2509</td><td>2509</td></tr><tr><td>3.</td><td>RFID based Boom Barriers & Readers</td><td>2857</td><td>2857</td></tr><tr><td>4.</td><td>Weigh Bridge Status</td><td>878</td><td>878</td></tr><tr><td>5.</td><td>Wide Area Networking</td><td>1270</td><td>1246</td></tr><tr><td>6.</td><td>CoalNet Implementation Status</td><td>50</td><td>47</td></tr></table>		Total No. of files	Total No. of e-files	18739	18739	S.No.	Name of the item	Requirement	Implementation status as on date	1.	GPS/GPRS based Vehicle Tracking System	8683	8683	2.	Electronic Surveillance by CCTV	2509	2509	3.	RFID based Boom Barriers & Readers	2857	2857	4.	Weigh Bridge Status	878	878	5.	Wide Area Networking	1270	1246	6.	CoalNet Implementation Status	50	47
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6.	CoalNet Implementation Status	50	47																																

Implementation of IT initiatives in NLC India Ltd. As on 25.09.2018

S.No.	Name of the item	Requirement	Implementation 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.	CoalNet Implementation Status	Nil	Nil

7. Status of Public Grievances

No. of Public Grievances redressed during the month of September, 2018	No. of Public Grievances pending at end of September, 2018
2076	2164

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.

- Three project were identified for the future areas of use of Space Technology in CIL
- (i) **Air Pollution Monitoring:** CMPDI in collaboration with NRSC has taken up an R&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.
 - (ii) **Coal Mine Fire Mapping and subsidence mapping.** 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
 - (iii) **Capacity Building in CMPDIL for SAR interferometry towards Fire and Subsidence Mapping.** Capacity building in CMPDI for SAR interferometry has already been done. Two executives from CMPDI were sent to NRSC for training in SAR Interferometry
