सुमन्त चौधरी ^{सचिव} SUMANTA CHAUDHURI 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

H0111/1/2017-Coord.

15.01.2019

Dear Sir

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

- Overall coal production of CIL was 54.1 MT as compared to 54.6 MT of corresponding month of last year.
- Overall coal offtake of CIL was 52.8 MT as compared to 53.4 MT of corresponding month of last year.
- Coal despatch by CIL to Power Sector as a whole increased from 41.6 MT to 42.4 MT, an increase of 1.9% as compared to corresponding month of last year.
- Outstanding dues by Power Sector to CIL as on 31.12.2018 are Rs.8248.82 crore.

Kegarols

Yours sincerely,

(Sumanta Chaudhuri)

Encl: As above

Shri Pradeep Kumar Sinha

Cabinet Secretary, Cabinet Secretariat, Rashtrapati Bhawan, New Delhi

.N	Significant inputs				Status		
	Important policy	(a) Initiativ	ves being taken in	regard to de-al		k	
	decisions taken and	Val.					
	major achievements during the month	Review me Provision)	eeting for monitor Act' 2015 in Odish	ing the developr a held on 28,12.	ment of coal min 2018.	es allocated under	the Coal Mines (Spe-
		Meeting w (Revenue),	sgarh were held on vith Addl.Chief S	15th December, Secretary (Fores Pradesh held on	2018 and 19th o	f December' 2018 :	Secretaries of Jharkh respectively. and Principal Secret to the operationalization
					ation during the	aracal are Nicesana	2010 : 1 00 1 1
		Tonne. The	production report	for the month of	f December, 2018	month of Novemi	ber, 2018 is 1.88 Mill
						is yet to received.	
		 Revenue in 	the month of Dece	mber, 2018 is R	s.144.50 crore.		
		CA DEM					
		CAPEX					
					CIL	LNE	ĆII.
		Target for	2018-10		9500 cr		CIL
			ent of December,	2018	735.29 cr		15 cr
			ent till December,		3669.71 c		1.53 cr 35.10 cr
		Percentage Achievement till December, 2018				30.00	ATT 100 100 100
		Percentage Achievement till December, 2018 38.63% 51.47%					
		coal blocks production & Moher A Tonnes (pro	for the month of E of those coal block mlori Extn. (1.425 v.) d under CBA (A&	December, 2018 is which have no 5 MT), Tasra (0. 4D) Act, 1957	s 4.174 Million 1 ot been cancelled 000 MT) and Pa	onnes (prov.), out by the Hon'ble Si kri Barwadih (0.7	rom the allocated capt of which, aggregate c upreme Court viz. Mo 12 MT) is 2.137 Mill idiaries as on Novemb
		Subsidiaries of CIL	Total compensation amount paid during the last month to the tenancy land(Rs. in crore)	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 crore)
		ECL	6.979	18.984	10	0	0.000
		BCCL	0.133	0.410	0	0	0.000
	hom	CCL	1.230	5.516	7	0	0.000
		NCL	10.419	10.931	0	0	0.000
	1.3	WCL	8.050	4.440	27		0.800

WCL

SECL

MCL

Total

8.050

7.868

19.634

54.313

4.440

32.942

21.151

94.375

27

0

26

70

1

2 4 7

0.000 0.890

0.090

0.550

1.530

(b) Performance of NLC India Limited in December, 2018.

	Unit	Decemi	ber 2018	December 2017	100	ariation wrt	April 18 December		April 17 - December 17	% Var	iation wrt
	U.T.LTOTAL	Target	Actual	Actual	Col 4 / Col 3	Col 4 / Col 5	Target	Actual	Actual	Col. 9 / Col. 8	Col. 9 / Col. 10
	2	3	4	5	6	7	8	9	10	11	12
Overburden	LM3	106,50	152.33	137.26	43.03	10.98	1049.50	1267.03	1342.73	20.73	-5.64
Lignite	LT	21,60	25.12	27.45	16,28	-8.50	159.85	160,37	164.31	0.33	-2,40
Power Gross From											
TPS	MU	1827.00	1927.91	1557.39	5.52	23.79	15182.00	14662.42	15123.61	-3.42	-3.05
Wind Power Plant	MU	1.05	0.47	1.01	55.24	-53.47	125.95	109.42	124.09	14,37	6.41
Solar Power Plant	MU	66.65	39.86	6.28	40.20	534.71	321,70	315.56	29.85	-1.91	957.15
Grand Total Gross	MU	1894.70	1968.24	1564,68	3.88	25,79	15629.65	15087.40	15277.55	-3.47	-1.24
Power Export From											
TPS	MU	1570.00	1640.72	1299.85	4.50	26.22	12838.00	12321.45	12665.53	-4.02	-2.72
Wind Power Plant	MU	1.05	0.39	0.86	62.86	-54.65	125.95	99.28	119.43	-21.18	-16.87
Solar Power Plant	MU	66.65	39,86	6.28	40.20	534.71	321.70	315.56	29.85	-1.91	957.15
Grand Total Export	MU	1637.70	1680.97	1306,99	2.64	28.61	13285,65	12736.29	12814.81	-4.13	-0.61

(c) Monthly and progressive Plan Expenditure of Coal Companies for and upto the month of December, 2018

(Rs. in Crores) Total Plan Outlay for the year 2018-19 Target Actual % of Actual Target of Cumulative % of Actual Expenditure Expenditure Expenditure Cumulative Expenditure Cumulative December, December, to plan outlay Expenditure upto Upto the Expenditure 2018 (Prov.) 2018) for the month December, 2018 Month of to Plan of Dec., 2018 Dec., 2018 outlay upto (Prov.) Dec., 2018 2 6 8 CIL 9500.00 896.16 735.29 82.05 4564.89 3551.30 77.80 46.77 SCCL 2000.00 180.00 84.18 1400.00 610.14 43.58 NLCIL 7645.00 586.23 953.11 162.58 5195.68 3935.10 75.73 Total 19145.00 1662.39 1772.58 106.62 11160.57 8096,54 72.55

(d) COAL PRODUCTION

(in MT)

Company	December, 2018	December, 2017	% Growth	April- December, 2018	April- December, 2017	% Growth
CIL	54.1	54.6	-0.9%	412.5	383.9	7.4%
SCCL	6.0	5.7	6.4%	45.6	42.0	8.5%

(e) OVERALL OFFTAKE

Company	December, 2018	December, 2017	% Growth	April- December, 2018	April- December, 2017	% Growth
CIL	52.8	53.4	-1.2%	444.6	421.4	5.5%
SCCL	6.1	6.0	2.1%	49.1	46.7	5.2%

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

Company	December, 2018	December, 2017	% Growth	April- December, 2018	April- December, 2017	% Growth
CIL	42.4	41.6	1.9%	360.0	333.4	8.0%
SCCL	5.0	4.9	1.8%	40.0	38.7	3.3%

Outstanding Dues: The outstanding dues payable by Power Sector to CIL as on 31.12.2018 was Rs. 8248.82 crore.

(0)	SPOT	E-A	LICTION	OF COAL
(21)	SIOI	E-A	UCITON	OF CUAL

Company	Coal Qty.	Coal Qty.	Increase	Coal Qty.	Coal Qty.	Increase
	Allocated	Allocated	over	Allocated	Allocated	over
	December,	December,	notified	April-	April-	notified
	2018	2017	price	Dec.,2018	Dec.,2017	price
CIL	3.42	9.13	131%	22.26	40.84	95%

(h) SPECIAL FORWARD E-AUCTION FOR POWER

Company	Coal Qty.	Coal Qty.	Increase	Coal Qty.	Coal Qty.	Increase
	Allocated	Allocated	over	Allocated	Allocated	over
	December,	December,	notified	April-	April-	notified
	2018	2017	price	Dec.,2018	Dec.,2017	price
CIL	8			21.91	27.43	79%

(i) EXCLUSIVE E-AUCTION FOR NON-POWER

Company	Coal Qty.	Coal Qty.	Increase	Coal Qty.	Coal Qty.	Increase
	Allocated	Allocated	over	Allocated	Allocated	over
	December,	December,	notified	April-	April-	notified
	2018	2017	price	Dec.,2018	Dec.,2017	price
CIL	0.62	*	37%	7.93	10.78	63%

(j) SPECIAL SPOT E-AUCTION

Company	Coal Qty.	Coal Qty.	Increase	Coal Qty.	Coal Qty.	Increase
	Allocated	Allocated	over	Allocated	Allocated	over
	December,	December,	notified	April-	April-	notified
	2018	2017	price	Dec., 2018	Dec., 2017	price
CIL	1.50		101%	2.00	0.35	89%

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

SI. 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	 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 8 of the 10 successful bidders.
(iii)	Linkages for IPPs without PPA	 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

		(iv)	Earmarking Linkage for fresh PPAs Power aggregate of		 criteria was taken up for further delibe CIL had requested for certain clarific to the auction of coal linkages un Clarifications have been issued. Policy guidelines have been frame Power. Yet to be communicated to Months. 	ations with regard der para B (iii). I by Ministry of C.
		(vi)	States Linkages to SPV for		Methodology to be formulated by Mo Recommendations to be received fron	
		(vii)	UMPP Linkages to IPPs based on imported co	having PPA	Without adversely impacting the content domestic coal based plants IMC constituted for framing methodology to be reviewed.	al availability to
		C.	Issues arising or arise during implementation Policy.	course of	 IMC constituted to consider such issued 4 meetings of IMC have been held. Recommendation of IMC in its 4th meapproved by the Competent Authority circulated on 25.07.2018. 	eting has been
		As against target of 1 Overall P (Department of department)	d 0.90 lakh meters in likecution by MECL, Do t this, the achievement .35 lakh metre, which rogress of Detailed ental: 4.80 lakh metre,	gnite has been GMs of Nagala of drilling upto is 69% of the to Drilling in 20 Outsourcing: 8	otional/NMET (Regional) drilling comprisi drawn up in Annual Plan 2018-19 of CMP and & Assam and CMPDI. The the month of December, 2018 is 0.94 lak arget. 18-19: For 2018-19, a target of 13.67 lak and lakh metre) has been envisaged. As against the target	OI. The programme n metre, against the n metre of drilling inst this, 9.31 lakh
2.	Important policy matters held up on account of prolonged inter- Ministerial consultations	NIL	00% of the target,			-
3.	Compliance of CoS decisions	No. of Co	S decisions pending	Proposed acti	on plan/time lines for compliance of	Remarks
		for compl Issues per	iance rtaining to Jharia and Action Plan for Fire dence.	decisions		
		exami taking rehabi storey areas config to	of West Bengal may ne the possibility of up housing under litation in multied pattern in urban and a suitable uration in rural areas economies the ement of land.	the demo be require of which acres WE and 79.50 (in line proposed Departme and cons sites (ex construct	as completed Demographic survey. As per graphic survey report, 375 acre land would for shifting of around 30,000 families out land identified so far is 172.28 acres (66.8) acres BAPL land). Total 12,976 no of flat with G+3 model) in 811 Blocks were in the DPR prepared by Housing ent, Govt. of WB for which pre-construction works had been started at all the cept one mouza at Namokeshia when ion activity has been suspended temporarily g,18 due to resistance/agitation of local	

people).

i). Construction of 160 no. of flats at Bijoynagar mouza for rehabilitation of families from the affected areas has been started from 10.03.2017 and though it was expected to be completed by December, 2018 as per information of ADDA is hereby extended for another two months as Sanitary & plumbing work and some interior finishing work of flats is still going

ii). Work for further construction of 3024 no. of flats at mouza Bijoynagar & Daskeary has been awarded to Simplex Infrastructures Ltd. on 19.03.2018 at an amount of Rs. 189.98 Crs. with time of completion of 450 days (by june, 2019) and will be reckoned from 19.03.2018 i.e. date of issue of issue of work order. Construction activity has already been started. Though provision of blocks as per DPR was 124 but till date construction of 69 blocks are in progress at mouza Bijoynagar and that of mouza Daskeary out of the proposed blocks of 65 till date construction of

33 blocks are in progress.

iii). Work order for further construction of 1904 no. of flats(in 119 blocks) at mouza Namokeshiahas been awarded to Bridge & Roof (India) Ltd. on 19.03.2018 at an amount of Rs. 123.25 Crs. with time of completion of 365 days from the date of issue of work order. Though at the said resettlement site work was suspended temporarily due to resistance of local people but after the intervention of Dist. Administration pre-construction activity has been started from 25.07.2018 under police protection. Again work has been suspended due to agitation of local people and to maintain law and order State authority has decided temporarily stoppage of construction activity on the said land till amicable solution is received at through meeting with local people/villagers.

iv). Letter of acceptance/notification of award for construction of 5664 no. of flats at BAPL land has been issued to successful bidder (Montecarlo Limited) on 13.06.2018 at an amount of Rs. 392.65 Crs. with time of completion of 548 days(by January, 2020) and will be reckoned from the date of handing over possession of the site. Construction

activity has been started from 13.07.2018.

Though provision of blocks as per DPR was 354 but till date construction of 204 blocks are in progress at mouza Dakshinkhanda.

v). Letter of acceptance/notification of award for construction of 2224 flats at Daskeary mouza has been issued to successful bidder (Montecarlo Limited) on 26.06.2018 at an amount of Rs.138.42 Crs. with time of completion of 450 days(by October,2019) and will be reckoned from the date of handing over possession of the site. Construction activity has been started from 13.07.2018.

Though provision of blocks as per DPR was 139 but till date construction of 65 blocks are in progress at mouza Daskeary.

- 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.
- 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.

Out of 15852 quarters to be constructed for BCCL families, 7639 quarters have been constructed, 6668 houses allotted, remaining 8213 are under construction. 3825 families have been shifted in BCCL constructed houses.

Negotiation with CPWD & NBCC is in process. CPWD has already been provided technical details / requirement and land details by JRDA.

- Govt. of Jharkhand may expedite the shifting of R.S.P. College, Jharia to a suitable location
- 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 action. Matter is under process.
- 4. MoRTH may take up realignment of 300 m stretch of NH 2 in Raniganj area expeditiously and hand over the stretch to ECL.
- 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. Accordingly, three consecutive 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.

DG opined that a Scientific Institute/agency may be engaged to make fresh study to ascertain stability of ground beneath the NH-2 over the working of Bonjemehary colliery and to suggest measures to ensure long term stability of the unstable portion of the ground beneath the NH-2.

As per suggestion/opinion of DG, DGMS to conduct scientific study afresh, five scientific/ research institutes i.e. IIT, Kharagpur; IIEST, Shibpur; NIT, Rourkela; IISM, Dhanbad and IIT,BHU were requested on 17.08.2018 to submit scope of work along with cost involvement in connection with assessment of the condition of NH-2 road at the affected stretches. As no response/communication has been received from anyone within the stipulated period, 2nd request has been made again on 18.09.2018 to submit the offer within the time line of 28.09.2018 for taking decision on the matter.

On 27.09.2018two premiere institutes i.e. IIT, Kharagpur and IIEST, Shibpur have submitted offer along with scope of work and cost involvement to carry out the study work.

 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.

6. M/o Coal and M/o Railway may mutually discuss the modalities for financing the projects regarding realignment of 145.6 km of railway line in Jharia region and 20 km stretch in Raniganj region. IIT, Kharagpur has quoted the lower rate.

The matter of release of fund prior to scientific study work as per condition of the offer letter submitted by IIT, Kharagpur is still under examination. Some clarifications related to such scientific study as sought from the concerned Scientific Institution has been received along with revised detailed scope of work which must fulfil the requirement of full-proof stabilization of long term duration of the existing NH-2 road to comply the DGMS recommendation.

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.

BCCL requested the Executive Engineer, NH Divn, Dhanbad for inclusion of the clause (mentioned below) in the draft lease agreement submitted by NH Divn. The clause is:- "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."

Draft lease agreement forwarded by National Highway Wing, RCD, Jharkhand yet to be finalized by MORTH, Govt. of India.

BCCL are in regular persuasion of the matter with NH division.

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

In respect of modalities for financing of project for realignment of railway lines in the fire affected 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.

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

			Railway Board, N (ECR) at Hajipur discussion held, Ra land to BCCL with The matter shall discussion with C Jharkhand State go 25.10.18 a letter h DRM, EC Railway the 289 acres land Rs. 360 Crs for the land is not handed of		GM the r the) on v of On from e of attely date
		• Action	Taken Report based on the comments received	from Ministry of Power has	s already been sent
4.	No. of cases of	NIL	Secretariat vide letter no. 43012-13-2015-CPAN	A Dt. 25th October 2018.	
	'sanction for prosecution' pending for more than three months				
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		Total No. of files	Total No. of a file	
6.			Total No. of files 19500 head initiatives to the Government's aim of "M		imum Governance
5.	Status of implementation of e-		19500	19500 linimum Government, Maxi	imum Governance 18 is given below:- Implementation
	Status of implementation of e-	the status o	19500 head initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item	Inimum Government, Maxics subsidiaries as on 31.12.201 Requirement	imum Governance 18 is given below:- Implementation status as on date
	Status of implementation of e-	S.No.	19500 head initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System	Inimum Government, Maxis subsidiaries as on 31.12.201 Requirement 8683	imum Governance 18 is given below:- Implementation status as on date 8683
	Status of implementation of e-	S.No.	19500 head initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System Electronic Surveillance by CCTV	Inimum Government, Maxis subsidiaries as on 31.12.201 Requirement 8683 2509	imum Governance 18 is given below:- Implementation status as on date 8683
5.	Status of implementation of e-	S.No. 1. 2. 3.	19500 head initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System Electronic Surveillance by CCTV RFID based Boom Barriers & Readers	Inimum Government, Maxis subsidiaries as on 31.12.201 Requirement 8683	imum Governance 18 is given below:- Implementation status as on date 8683 2509 2857
5.	Status of implementation of e-	S.No. 1. 2. 3. 4.	19500 head initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System Electronic Surveillance by CCTV RFID based Boom Barriers & Readers Weigh Bridge Status	Requirement	imum Governance 18 is given below:- Implementation status as on date 8683 2509 2857
55.	Status of implementation of e-	S.No. 1. 2. 3.	19500 head initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System Electronic Surveillance by CCTV RFID based Boom Barriers & Readers	19500 Inimum Government, Maxis subsidiaries as on 31.12.201 Requirement 8683 2509 2857	imum Governance 18 is given below:- Implementation status as on date 8683 2509 2857 878
55.	Status of implementation of e-	S.No. 1. 2. 3. 4. 5.	19500 head initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System Electronic Surveillance by CCTV RFID based Boom Barriers & Readers Weigh Bridge Status Wide Area Networking	Requirement Requirement Requirement	imum Governance 18 is given below:- Implementation status as on date 8683 2509 2853 878 1246
55.	Status of implementation of e-	S.No. 1. 2. 3. 4. 5.	nead initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System Electronic Surveillance by CCTV RFID based Boom Barriers & Readers Weigh Bridge Status Wide Area Networking Coal Net Implementation Status	Requirement Requirement Requirement	imum Governance 18 is given below:- Implementation status as on date 8683 2509 2853 878 1246
55.	Status of implementation of e-	S.No. 1. 2. 3. 4. 5. 6.	19500 nead initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System Electronic Surveillance by CCTV RFID based Boom Barriers & Readers Weigh Bridge Status Wide Area Networking Coal Net Implementation Status Implementation of IT initiatives in N Name of the item	Requirement Requirement Requirement Respectively Requirement Respectively Requirement Respectively Respectively Respectively Respectively Requirement Requirement Requirement Requirement Requirement Respectively Respectively Requirement Respectively Respectively	imum Governance 18 is given below:- Implementation status as on date 8683 2509 2853 878 1246 47 2018 Implementation
5.	Status of implementation of e-	S.No. 1. 2. 3. 4. 5. 6.	19500 head initiatives to the Government's aim of "M f implementation of IT initiatives in CIL and it Name of the item GPS/GPRS based Vehicle Tracking System Electronic Surveillance by CCTV RFID based Boom Barriers & Readers Weigh Bridge Status Wide Area Networking Coal Net Implementation Status Implementation of IT initiatives in N	Requirement Requirement Requirement Respectively Requirement Respectively Requirement Respectively Respectively Respectively Respectively Requirement Requirement Requirement Requirement Requirement Respectively Respectively Requirement Respectively Respectively	imum Governance 18 is given below:- Implementation status as on date 8683 2509 2857 878 1246 47 2018 Implementation status as on date
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Information on the specific steps taken by the Ministry/Department for utilization of the Space Technology tools based 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.
