

Annexure

**Action Plan submitted by non-compliant Thermal Power Plants to
achieve 100% fly ash utilisation**

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FORMAT FOR FLY ASH UTILISATION ACTION PLAN

1. Name of the Units
Dr.Narla Tata Rao Thermal Power Station
2. Power Generation Capacity:
1760MW (6x210 MW & 1x500MW)
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

	2017-18	2018-19
Ash generation	3861149	4114930
Ash utilisation	3502544	4275210

S.NO.	Description	Unit	2017-18				Total Fly Ash Utilisation in FY 2017-18
			Q1	Q2	Q3	Q4	
A	Ash Generation (Fly Ash + Bed Ash)	MT	1053626	858112.954	809938.6458	1139471	3861149
B	Ash Utilisation	MT	840794	775610	818362.78	1067777	3502544
i)	Brick Manufacturing	MT	395106	330584	451424	572588	1749702
ii)	Ready Mix Concrete	MT	13192	12516	21535	30129	77372
iii)	Low Lying area filling/ Area Development	MT	173045	132504	77599	134310	517458
iv)	Road Construction	MT	1573	14367	0	0	15940
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (Cement & A.C.Sheet manufacturing Industries)	MT	257878	285639	267804.78	330750	1142071.78
	Total Ash Utilisation	MT	2735214	2409332.954	2446664.206	3275025	3502544
C	Ash Utilisation percentage	%	79.80	90.39	101.04	93.71	90.71

S.NO.	Description	Unit	2018-19				TOTAL
			Q1	Q2	Q3	Q4	
A	Ash Generation (Fly Ash + Bed Ash)	MT	1185049	1060091	936904	932886	4114930
B	Ash Utilisation	MT	1073069	1068290	1080742	1053109	4275210
i)	Brick Manufacturing	MT	474339	567406	664770	590645	2297159.8
ii)	Ready Mix Concrete	MT	35559	41077	44952	38192	159780
iii)	Low Lying area filling/ Area Development	MT	216622	142242	71189	64490	494543
iv)	Road Construction	MT	11873	0	0	10490	22363
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (Cement & AC Sheet manufacturing)	MT	334676	317565	299831	349292	130136
	Total Ash Utilisation	MT	1073069	1068290	1080742	1053109	4275210
C	Ash Utilisation percentage	%	90.55	100.77	115.35	112.89	103.1

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4. Fly Ash Utilisation Action Plan FOTR THE YEAR 2019-20 (quarter wise)*:

NO.	Description	Unit	Q1	Q2	Q3	Q4	Total
A	Ash Generation (Fly Ash + Bed Ash)	MT	1083846	1012052	1012051	1012051	4120000
B	Ash Utilisation	MT	1170867	1043045	1043044	1043044	4300000
i)	Brick Manufacturing	MT	702779	650000	650000	650000	2652779
ii)	Ready Mix Concrete	MT	32239	32000	32000	32000	128239
iii)	Low Lying area filling/ Area Development	MT	12458	12500	12500	12500	49958
iv)	Road Construction	MT	69440	68000	68000	68000	273440
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (Cement and A.C.Sheet manufacturing industries)	MT	353951	280545	280544	280544	1195584
	Total Ash Utilisation	MT	1170867	1043045	1043044	1043044	4300000
C	Ash Utilisation percentage	%	108.03	104.05	104.05	104.05	104.36

Name of Authorised Person; CH. RAMBABU

Signature: *Ch. Rambabu*

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Phone no. : 9440907646

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Mrs. Safiya
 CHIEF ENGINEER/O&M
 Dr.NTTPS/IBRAHIMPATNAM

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in (FY 2020-21)
A	Ash Generation (Fly Ash + Bed Ash)	MT	123607	123607	100063	123607	470885
B	Ash Utilisation	MT	123607	123607	100063	123607	470885
i)	Brick Manufacturing	MT	11125	11125	9006	11125	42380
ii)	Ready Mix Concrete	MT					
iii)	Low-Lying area filling/ Area Development	MT					
iv)	Road Construction	MT	1236	1236	1001	1236	4709
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	If any other area (specify) (cement industry)	MT	111247	111247	90057	111247	423796
	Total Ash Utilisation	MT	123607	123607	100063	123607	470885
C	Ash Utilisation percentage	%	100	100	100	100	100

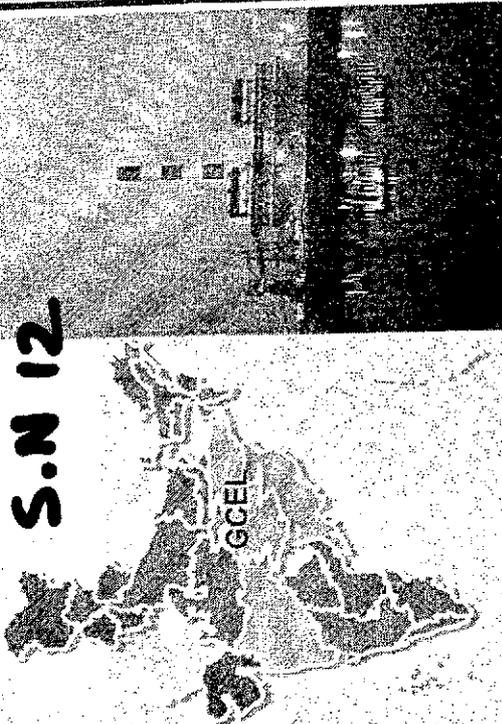
Note - Total Ash generation is based on consideration of Unit-2 only running at 85% PLF (Ash within 34%) and at present there is no schedule for running of Unit-1.

FLY ASH UTILIZATION ACTION PLAN (QUARTER WISE)

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in (FY 2019-20)
A	Ash Generation (Fly Ash + Bed Ash)	MT	198431	104935	63874	104935	472175
B	Ash Utilisation	MT	198431	104935	63874	104935	472175
i)	Brick Manufacturing	MT	17747	5494	6387	9494	39122
ii)	Ready Mix Concrete	MT					5000
iii)	Low Lying area filling/ Area Development	MT		5000			9119
iv)	Road Construction	MT	8119			1000	
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	If any other area (specify) (cement industry)	MT	172564	94442	57486	94442	418934
	Total Ash Utilisation	MT	198431	104935	63874	104935	472175
C	Ash Utilisation percentage	%	100	100	100	100	100

Note - Total Ash generation is based on consideration of Unit-2 only running at 85% PLF (Ash within 34%) and at present there is no schedule for running of Unit-1.

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Particulars

	2016-17	2017-18	2018-19	2019-20* (Projected)
Total Ash Generation (Lacs MT)	1.71	2.96	4.37	16.74
Fly Ash Utilization (Lacs MT)	1.23	2.67	3.43	16.74
Utilization (%)	71.59	90.11	78.48	100

* Ash generation is projected based on possible PLF and ash content in coal within limit as per EC.

Existing Avenues:

- Supplying to nearby Cement Industries.
- For evacuation of Bottom Ash already discharged in the Bottom Ash Pond-1 the process of drying is initiated through transferring the accumulated water in Ash Pond through recovery water pumps.
- Since the quality of the decanted Ash Water matches the Raw water quality this water is being transferred to Raw Water Reservoir through Ash recovery water pumps. (Suitable modification in the pipeline is already done).
- Also during subsequent operation of units the Bottom Ash will be discharged in BA Pond-2 only.

New Initiatives:

- At GCEL the bottom ash is handled in slurry form and is disposed in Bottom ash ponds 1&2. GCEL has made the necessary arrangements for evacuating Bottom Ash directly from the Ash Ponds. For achieving this GCEL has constructed ramps at suitable locations in Bottom Ash Ponds-1 so that Hywa and Loader can directly enter the Ash Pond and bottom Ash evacuation can be achieved. With the completion of ramp construction, the disposal of bottom ash in the BA pond has already started.

GCEL TPP

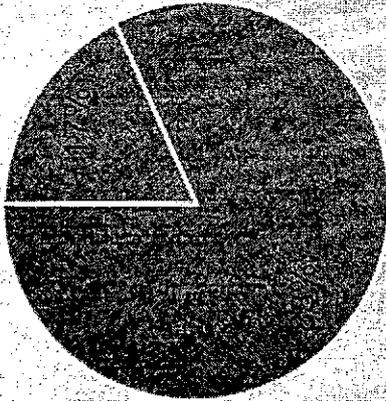
Year of COD	FY 2015-16
Capacity	1370 MW
Coal Source	Domestic
Fine Fly Ash Generation	232.87 MT/day
Coarse Fly Ash Generation	3817.125 MT/day
Bottom Ash Generation	450 MT/day
Silo Capacity	3 X 1200 MT
Pond Ash Availability	0.3 lacs MT
Nearest port	Vizag (~550 km)

ASH UTILIZATION

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Mode of Ash Utilization FY 2018-19

GMR CHHATISGARH ENERGY LIMITED



■ Brick Manufacturing
■ Cement Industry

FACTORS AFFECTING 100% FLY ASH UTILIZATION

- GCEL doesn't have a long term PPA, which adds to the uncertainties in meeting the contractual requirements of Fly Ash supply to the Cement Industries and Brick Manufacturers.
- New CTO Condition: "The industry shall install Fly Ash brick plant of at least 1,80,000 numbers of bricks per day on or before July 2018". We are installing a fly ash brick manufacturing unit within the plant premises. The brick manufacturing is expected to start in the first week of May '19.

Plan for Ash Utilization - Quarterly (FY 2019-20)

Quarter	Coal Consumption (MT)	Power generation (MUS)	Quantity of fly ash generated (MT)	Quantity of bottom ash generated (MT)	Total Ash Generated	Brick Manufacturing (MT)	Supplied to Industry			Total Ash Utilized (MT)	% of ash utilization	
							Cement	Road Making	Other purposes (MT) Mine Filling Tiles			
Q-1	1181622	2499	361577	40175	401751	21560	376551	3640	If required	If required	401751	100
Q-2	1227943	2454	375750	41750	417500	31010	381940	4550	If required	If required	417500	100
Q-3	1282014	2404	392296	43588	435884	18750	413134	4000	If required	If required	435884	100
Q-4	1232225	2274	377060	41895	418956	20850	394256	3850	If required	If required	418956	100

Format for Ash Utilisation Action Plan

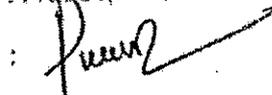
1. Name of the Unit : 2 x 130 MW, JSW Energy Limited, Vijayanagar, Karnataka.
2. Power Generation Capacity : 260 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19) : Attached
4. Fly Ash Utilisation Action Plan (quarter wise) * 2019-20 and 2020-21 :

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	11539	**11539	**11539	**11539	46156
B	Ash Utilisation	MT	11539	11539	11539	11539	46156
i)	Brick Manufacturing	MT	6856	6856	6856	6856	27424
ii)	Ready Mix Concrete / Cement manufacturing	MT	2481	2481	2481	2481	9924
iii)	Low Lying area filling/ Area Development	MT	-	-	-	-	-
iv)	Road Construction	MT	-	-	-	-	-
v)	Filling of abandoned stone quarry	MT	-	-	-	-	-
vi)	Mines void filling	MT	-	-	-	-	-
vii)	Agriculture Utilisation	MT	-	-	-	-	-
viii)	If any other area (specify),/ Pond embankment	MT	2202	2202	2202	2202	8808
	Total Ash Utilisation	MT	11539	11539	11539	11539	46156
C	Ash Utilisation percentage	%	100	100	100	100	100

**Fly ash utilization & generation Plan for Q2, Q3 & Q4 of FY 2019-20 is based on Q1 plant load factor and coal quality.

Name of the Authorised Person : Pradeep Manoor

Signature :



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pradeep.manoor@jsw.in

Phone no. :

9449849708

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

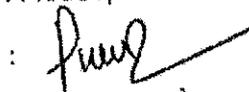
1. Name of the Unit : 2 x 300 MW, JSW Energy Limited, Vijayanagar, Karnataka.
2. Power Generation Capacity : 600 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19) : Attached
4. Fly Ash Utilisation Action Plan (quarter wise) * 2019-20 and 2020-21 :

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	23348	**23348	**23348	**23348	93392
B	Ash Utilisation	MT	23348	23348	23348	23348	93392
i)	Brick Manufacturing	MT	0	0	0	0	0
ii)	Ready Mix Concrete / Cement manufacturing	MT	22591	22591	22591	22591	90364
iii)	Low Lying area filling/ Area Development	MT	-	-	-	-	-
iv)	Road Construction	MT	-	-	-	-	-
v)	Filling of abandoned stone quarry	MT	-	-	-	-	-
vi)	Mines void filling	MT	-	-	-	-	-
vii)	Agriculture Utilisation	MT	-	-	-	-	-
viii)	If any other area (specify),/ Pond embankment	MT	757	757	757	757	3028
	Total Ash Utilisation	MT	22348	22348	22348	22348	93392
C	Ash Utilisation percentage	%	100	100	100	100	100

**Fly ash utilization & generation Plan for Q2, Q3 & Q4 of FY 2019-20 is based on Q1 plant load factor and coal quality.

Name of the Authorised Person : Pradeep Manoor

Signature :



E-mail id :

pradeep.manoor@jsw.in

Phone no. :

9449849708

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

S.N. 14

(14)

Format for Ash Utilisation Action Plan

1. Name of the Unit: Captive Power Plant, Jindal Steel & Power Ltd- Angul, Odisha
2. Power Generation Capacity: 6 x 135 MW**
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

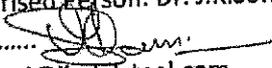
Year	Generation (T)	Utilization (T)	% of utilization
2017-18	823844	811084	98.45
2018-19	1178045	1151604	97.76

4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	322830	345600	504000	504000	1676430
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	3607	4500	4500	4500	17107
ii)	Ready Mix Concrete	MT	Nil				
iii)	Low Lying area filling/ Area Development (Inside the plant project area)	MT	Nil	191100	287500	261500	740100
iv)	Road Construction	MT	247448	0	12000	38000	297448
v)	Filling of abandoned stone quarry	MT	Nil				
vi)	Mines void filling	MT	Nil				
vii)	Agriculture Utilisation	MT	Nil				
viii)	If any other area (specify): Dyke raising	MT	71775	150000	200000	200000	621775
	Total Ash Utilisation	MT	322830	345600	504000	504000	1676430
C	Ash Utilisation percentage	%	100	100	100	100	100

** The Captive Power Plant is located within Integrated Steel Plant Boundary

Name of the Authorised Person: Dr. J.K.Soni

Signature: 

E-mail id: jagdish.soni@jindalsteel.com

Phone no.: 8826298942

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

S.N.15

(B)

Format for Ash Utilisation Action Plan (FY :2019-20)

1. Name of the Unit: Captive Power Plant, JSPL, Raigarh, Chattisgarh
2. Power Generation Capacity: 134 MW**
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Generation (T)	Utilization (T)	% of utilization
2017-18	484873	484873	100
2018-19	362789	362789	100

4. Fly Ash Utilisation Action Plan (quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	90,000	90,000	90,000	90,000	360000
B	Ash Utilisation	MT	90,000	90,000	90,000	90,000	360000
i)	Brick Manufacturing	MT	23,250	23,250	23,250	23,250	93000
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT	66,750	66,750	66,750	66,750	267000
iv)	Road Construction	MT					
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	If any other area (specify)	MT					
	Total Ash Utilisation	MT	90,000	90,000	90,000	90,000	360000
C	Ash Utilisation percentage	%	100	100	100	100	100

** The Captive Power Plant is located within Integrated Steel Plant Boundary

Name of the Authorised Person: Dr. J.K. Soni

Signature: 

E-mail id: jagdish.soni@jindalsteel.com

Phone no.: 8826298942

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

S.N.16

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Format for Ash Utilisation Action Plan

- Name of the Unit: Maruti Clean Coal And Power Limited 1X300 MW TPP
- Power Generation Capacity: 300 MW
- Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):
Year
Fly ash generation (MT) 2017-18 2018-19
Fly ash utilisation (MT) 772448 727948
723216 727948

4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation Ash + Bed Ash	(Fly) MT	216434	178874	219394	202077	816779
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	18474	8944	10971	10105	48494
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT	69979	61930	98727	90934	321570
iv)	Road Construction	MT	127981	108000	109697	101038	446716
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify)	MT	0	0	0	0	0.00
C	Total Ash Utilisation	MT	216434	178874	219395	202077	816780
	Ash Utilisation percentage	%	100	100	100	100	

Name of the Authorised Person: Tushar Ahlawat

Signature:

E-mail id : tushar.ahlawat@achindia.com

Phone no. : 9654129396

Note :

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S.N. 17

(17)

(25)

NLC TAMILNADU POWER LIMITED
ASH UTILIZATION ACTION PLAN

1. Name of the Unit: NLC TAMILNADU POWER LIMITED, TUTICORIN
2. Power Generation Capacity: 1000 MW (2 x 500 MW)
3. Fly ash generation and utilization in previous two years (2017-18 & 2018-19):

Period: 2017-18

Sl.No.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilization in FY 2017-18
A	Ash Generation (Fly Ash + Bottom Ash)	MT	245693	272539	292547	282101	1092880
B	Ash Utilization	MT	245693	272539	292547	282101	1092880
i)	Brick Manufacturing	MT	11352	9994	31639	18101	71087
ii)	Ready Mix Concrete	MT	-	-	-	-	-
iii)	Low Lying area filling/ Area Development (Bottom Ash)	MT	-	8332	4290	-	-
iv)	Road construction	MT	-	-	-	-	-
v)	Filling of abandoned stone quarry	MT	-	-	-	-	-
vi)	Mines void filling	MT	-	-	-	-	-
vii)	Agriculture Utilization	MT	-	-	-	-	-
viii)	Cement	MT	144796	166936	213327	212559	737819
ix)	Bottom Ash to Cement & Brick manufacturers	MT	89544	87278	43290	51441	271553
x)	Total Ash Utilization	MT	245693	272539	292547	282101	1092880
C	Ash Utilization Percentage	%	100.00	100.00	100.00	100.00	100.00

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Format for Ash Utilisation Action Plan

1. Name of the Unit: R.K.M Powergen Pvt Ltd
2. Power Generation Capacity: 4 x 360MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

S.No.	Financial Year	Fly Ash Generation	Fly Ash Utilization
i	2017-18	420640.4	381612
ii	2018-19	608142	550627.5

4. Fly Ash Utilisation Action Plan (quarter wise) *: considering operation of all the units i.e (4x360MW)

S. No	Description	Unit	Quarterly Fly Ash Generation				Total Fly ash Generation
			Q1	Q2	Q3	Q4	
A	Ash Generation (Fly Ash + Bed Ash)	MT	705667.5	705667.5	705667.5	705667.5	
B	Ash Utilisation						
i)	Brick Manufacturing	MT	30203.7	30203.7	30203.7	30203.7	120815
ii)	Ready Mix Concrete	MT	-	-	-	-	
iii)	Low Lying area filling	MT	45625	45625	45625	45625	182500
iv)	Road Construction	MT	45625	45625	45625	45625	182500
v)	Filling of abandoned stone quarry	MT	-	-	-	-	
vi)	Mines void filling	MT	80000	80000	80000	80000	320000
vii)	Agriculture Utilisation	MT	-	-	-	-	
viii)	Others – as specified under :						
1	Cement Plant	MT	730000	730000	730000	730000	2920000
2	Light weight Aggregate	MT	50000	50000	50000	50000	200000
3	Transportation to other State	MT	18250	18250	18250	18250	73000

16/7/19

(17) **S.N.19** (17)

RattanIndia Power Ltd., Amravati 5x270 MW Ash Utilisation Action Plan

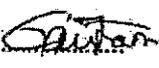
1. Name of the Unit: RattanIndia Power Ltd. Plot Number D2 & D2 (Part) Additional Industrial Area, Nandgaonpeth, MIDC, Amravati-444901(MS).
2. Power Generation Capacity: 5x 270 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Sr.No	Financial Year	Total Ash Generation	Total Ash Utilization
		MT	MT
1	2017-18	8,26,918	8,33,561
2	2018-19	7,21,492	8,32,669

4. Fly Ash Utilisation Action Plan (quarter wise) * 2019-20 and 2020-21:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
			2019-20	2019-20	2019-20	2019-20	
A	Ash Generation (Fly Ash + Bed Ash)	MT	231898.896	178410.21	178410.21	178410.21	767129.53
B	Ash Utilisation	MT	246813.72	98125.61	196251.23	226580.97	767771.54
i)	Brick Manufacturing	MT	229935	49062.80	98125.62	113290.48	490413.91
ii)	Ready Mix Concrete	MT	6625	2796.58	5593.16	6457.56	21472.30
iii)	Low Lying area filling/ Area Development	MT	10245	46266.22	92532.46	106832.93	255876.61
iv)	Road Construction	MT	0.00	0.00	0.00	0.00	0.00
v)	Filling of abandoned stone quarry	MT	0.00	0.00	0.00	0.00	0.00
vi)	Mines void filling	MT	0.00	0.00	0.00	0.00	0.00
vii)	Agriculture Utilisation	MT	0.00	0.00	0.00	0.00	0.00
viii)	If any other area (specify)	MT	8.72	9.81	19.62	22.65	60.82
	Total Ash Utilisation	MT	246813.72	98135.42	196270.85	226603.62	767823.63
C	Ash Utilisation percentage	%	106.4	55.0	110.0	127.0	100.09

Name of the Authorised Person: Gautam Wazir

Signature: 

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S.N. 20

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Format for Ash Utilisation Action Plan

1. Name of the Unit: TAQA Neyveli Power Company Pvt. Ltd.,
2. Power Generation Capacity: 250 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Fly ash generation (Tons)	Fly ash utilisation (%)
2017 - 2018	62500	97
2018 - 2019	85964	90.9

4. Fly Ash Utilisation Action Plan (quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	26519				
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	3151				
ii)	Ready Mix Concrete	MT	0				
iii)	Low Lying area filling/ Area Development	MT	0				
iv)	Road Construction	MT	0				
v)	Filling of abandoned stone quarry	MT	0				
vi)	Mines void filling	MT	672				
vii)	Agriculture Utilisation	MT	0				
viii)	cement	MT	18,048				
viii)	If any other area (specify)Construction	MT	1680				
ix	Total Ash Utilisation	MT	23551				
C	Ash Utilisation percentage	%	88				

Name of the Authorised Person: Pravin Kumar VA.

Signature: [Handwritten Signature]

E-mail id: pravin.kumar.va@taqa.global.com

Phone no: 9842355883

7-0A

For the Year 2017 - 2018

Sl No	Month	Fly Ash Disposal (Tonnes)				Fly Ash		Bottom ash			Total ash (Fly ash+Bottom ash)			% of total ash utilization
		Fly Ash Generation (Tonnes)	Cement plant	Brick manufacturer	Fly Ash Silo closing level	Ash pond	% of fly ash utilization	Bottom Ash		Total Ash		% of total ash utilization		
								Bottom Ash Generation (Tonnes)	Cement plant	Ash pond	Ash Generation (Tonnes)		Cement plant	
1	April	6613	4,941	943	69	883	91.30%	1,653	28	1,625	8,266	5,912	2,508	71.52%
2	May	5672	4,822	867	52	0	100.60%	1,418	26.6	1,391	7,090	5,716	1,391	80.62%
3	June	4338	3,918	289	75	108	96.45%	1,085	162	923	5,423	4,369	1,031	80.57%
4	July	2500	2,132	163	110	171	90.37%	625	164	461	3,125	2,458	632	78.66%
5	August	5409	4,014	930	149	425	90.69%	1,352	54	1,298	6,761	4,998	1,723	73.93%
6	September	5808	4,540	1,317	0	100	103.41%	1,452	291	1,161	7,260	6,148	1,261	84.68%
7	October	0	0	0	0	0	#DIV/0!	0	0	0	#DIV/0!	0	0	#DIV/0!
8	November	6640	5,545	1,025	70	0	97.89%	1,660	196	1,464	8,300	6,766	1,464	81.52%
9	December	4627	3,680	985	32	0	101.65%	1,157	93	1,064	5,783	4,758	1,064	82.27%
10	January	5592	4,336	1,012	190	86	92.82%	1,398	140	1,258	6,990	5,488	1,344	78.52%
11	February	5446	4,537	979	120	0	102.57%	1,361	145	1,216	6,807	5,661	1,216	83.16%
12	March	9856	8,262	1,459	50	205	99.34%	2,464	560	1,904	12,321	10,281	2,109	83.45%
	Total	62500.2	50727.3	9968.62	1978	1978	97.11	15624.8	1859.6	13764.6	78125.1	62555.5	15742.6	

19.65139

FOR THE YEAR 2018 - JULY

Sl No	Month	Fly Ash Disposal (Tonnes)				Fly Ash		Bottom ash			Total ash (Fly ash+Bottom ash)			% of total ash utilization	
		Fly Ash Generation (Tonnes)	Cement plant	Brick manufacturer	Fly Ash Silo closing level	Ash pond	% of fly ash utilization	Bottom Ash		Total Ash		% of total ash utilization			
								Bottom Ash Generation (Tonnes)	Cement plant (Mine Filling)	Brick manufacturer	Ash pond		Ash Generation (Tonnes)		Pond ash Disposal MT
1	April	0	0	0	0	0	#DIV/0!	0	0	0	#DIV/0!	0	0	#DIV/0!	
2	May	9181.2	6885.2	2109	94	133	96.94%	1768	112	0	1656	6.33%	10949.2	9106.2	2109
3	June	3711	2636	1115	0	0	103.61%	928	56	0	871	6.03%	4639	3807	1115
4	July	5126.61	4010.61	1116	0	0	100.00%	1281.65	58	0	1223.65	4.53%	6408.26	5184.61	1116
5	August	7224.44	5338.44	1591	110	180	94.39%	1687.36	84	0	1603.36	4.98%	8911.8	7013.44	1591
6	September	3194.08	2614.45	563.63	126	0	99.00%	798.52	84	0	714.52	10.52%	3992.6	3262.08	563.63
7	October	9546.02	8496.61	606.41	52	517	96.13%	2386.5	308	0	2078.5	12.91%	11932.5	9411.02	606.41
8	November	10097.3	6211.52	430.82	317	3190	63.16%	2524.34	224	0	2300	8.87%	12621.7	6866.34	430.82
9	December	8692.84	6617.93	1196.91	135	1060	91.99%	2173.21	308	0	1865.21	14.17%	10866.1	8122.84	1196.91
10	January	5712.39	4375.52	571.47	38	862	88.31%	1428	196	0	1232	13.73%	7140.39	5143.39	571.47
11	February	8369	5048.25	1311.6	185	1862	74.24%	2092	0	0	2092	0.00%	10461	6359.85	1311.6
12	March	8413	6684	1742	172	0	100.31%	2103	28	0	2075	1.33%	10516	8454	1742
	Total	79267.9	58918.9	12353.8	7804	7804	90.13%	19170.6	1458		17711.2	7.61	98438.5	72730.8	12353.8

20.96752

TAQA

For the Year 2019 - 2020

S/No	Month	Fly Ash				Bottom ash				Total ash(Fly ash+Bottom ash)				% of total ash utilization		
		Fly Ash Generation(Tonnes)	Fly Ash Disposal(Tonnes)	Fly ash in Silo MT	Ash pond	% of fly ash utilization	Bottom Ash Generation(Tonnes)	Cement plant (Mine Filling)	Brick manufacturer	Ash pond	% of bottom ash utilization	Pond ash Disposal MT	Total Ash Generation(Tonnes)		Cement plant	Brick manufacturer
1	April	9352	7770	1741.8	0	103.42%	2338	224	0	2114	9.58%	11589	7994	1741.8	2114	92.87%
2	May	5686.59	5938.84	707.75	0	97.79%	1671.64	280	0	1391.64	16.75%	8358.23	6219	707.75	1391.64	87.08%
3	June	5176.5	4339.64	701.86	0	97.10%	1294.125	168	0	1126.12	12.98%	6470.63	4508	701.86	1126.12	83.72%
4	July	1780	1495.24	285.56	0	107.63%	445.2	28	0	417.2	6.29%	2225.2	1523	285.56	417.2	115.80%
5	August	4827.33	3772.87	1004.46	0	97.93%	1206.83	28	0	1178.83	2.32%	6034.16	3801	1004.46	1178.83	82.82%
6	September					#DIV/0!			0		#DIV/0!	0	0	0	0	#DIV/0!
7	October					#DIV/0!			0		#DIV/0!	0	0	0	0	#DIV/0!
8	November					#DIV/0!			0		#DIV/0!	0	0	0	0	#DIV/0!
9	December					#DIV/0!			0		#DIV/0!	0	0	0	0	#DIV/0!
10	January					#DIV/0!			0		#DIV/0!	0	0	0	0	#DIV/0!
11	February					#DIV/0!			0		#DIV/0!	0	0	0	0	#DIV/0!
12	March					#DIV/0!			0		#DIV/0!	0	0	0	0	#DIV/0!
	Total	27822	23316.4	4441.43	0	99.77%	6955.69	728	0	6227.68	10.47	34777.7	24044.4	4441.43	6227.68	89.50%

19.04855

S.N. 21

21

Name of the Unit

FLY ASH UTILISATION YEAR 2017-18 & 2018-19
Harduaganj Thermal Power Plant, Kasimpur Aligarh, Uttar Pradesh

S.No.	Description	Unit	Year 2017-18	Year 2018-19
A	Ash generation (Fly ash + Bed ash)	MT	926500	788884
B	Ash Utilisation			
1	Brick Manufacturing	MT	13548	38513
2	Ready Mix concrete	MT	0	
3	Low lying area filling/area development	MT	463606	336793
4	Road construction	MT	0	0
5	Filling of abandoned stone quarry	MT	0	0
6	Mines void filling	MT	0	0
7	Agriculture utilisation	MT	0	0
8	If any other area specified (Cement manufacturing)	MT	392554	387067
	Total Ash utilization	MT	869708	762373
C	Ash utilization percentage	%	93.87	96.64


16.07.19

(Jabar Singh)
Superintending Engineer (Civil)
Harduaganj Thermal Power Station
Kasimpur (Aligarh) U.P.

FLY ASH UTILISATION ACTION PLAN

21

- 1 Name of the Unit Harduaganj Thermal Power Plant, Kasimpur Aligarh, Uttar Pradesh
- 2 Power Generation Capacity 2x250MW + 1x110 MW = 610 MW
- 3 Fly ash generation and utilisation in previous 2 years (2017-18 & 2018-19)— Details enclosed.
- 4 Fly ash utilisation action plan (qtr wise).

S.No.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly ash utilization in financial year 2019-20
A	Ash generation (Fly ash + Bed ash)	MT	232251				
B	Ash Utilisation						
1	Brick Manufacturing	MT	19067				
2	Ready Mix concrete	MT	0				
3	Low lying area filling/area development	MT	114058				
4	Road construction	MT	0				
5	Filling of abandoned stone quarry	MT	0				
6	Mines void filling	MT	0				
7	Agriculture utilisation	MT	0				
8	If any other area specified (Cement manufacturing)	MT	95185				
	Total Ash utilization	MT	228310				
C	Ash utilization percentage	%	98.30				

Harduaganj Thermal Power Plant trying to increase ash utilisation by taking following steps—

- 1 We have agreement with cement factories. They are insisted to lift maximum dry fly ash from silo. 03 Nos. silos are installed at above 03 Nos. units for collection of dry fly ash.
- 2 Brick manufactureres are also being contacted to lift 20% dry fly ash for their brick/fly ash based products free of cost as per MOEF guide line.
- 3 Firms/persons are contacted to use pond ash in Low lying areas and filling in construction such as colony development.
- 4 Public Notices are giving in News Papers to lift pond ash free of cost

- 1 Name of authorized person : Er. R.K.Wahi, Chief Engineer, Harduaganj Thermal Power Plant, UPRVUNL, Kasimpur, Aligarh , Uttar Pradesh
- 2 Signature : 
- 3 email id : gm.harduaganj@uprvunl.org
- 4 Phone No. : 9415900245

21

FLY ASH UTILISATION YEAR 2017-18 & 2018-19

Name of the Unit

Harduaganj Thermal Power Plant, Kasimpur Aligarh, Uttar Pradesh

S.No.	Description	Unit	Year 2017-18	Year 2018-19
A	Ash generation (Fly ash + Bed ash)	MT	926500	788884
B	Ash Utilisation			
1	Brick Manufacturing	MT	13548	38513
2	Ready Mix concrete	MT	0	
3	Low lying area filling/area development	MT	463606	336793
4	Road construction	MT	0	0
5	Filling of abandoned stone quarry	MT	0	0
6	Mines void filling	MT	0	0
7	Agriculture utilisation	MT	0	0
8	If any other area specified (Cement manufacturing)	MT	392554	387067
	Total Ash utilization	MT	869708	762373
C	Ash utilization percentage	%	93.87	96.64


16.07.19
(Jabar Singh)
Superintending Engineer (Civil)
Harduaganj Thermal Power Station
Kasimpur (Aligarh) U.P.

S.N. 22

22

Format for Ash Utilisation Action Plan

- Name of the Unit: Bakreswar Thermal Power Station
- Power Generation Capacity: 1050 MW (5X210)
- Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Fly ash Generation (MT)	Fly ash utilization (MT)
2017-18	1699633	1689087 (99.38%)
2018-19	1605671	1878295 (116.98%)

4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	441226	400000	450000	400000	1691226
B	Ash Utilisation	MT	709323	548000	663750	628000	2549073
i)	Brick Manufacturing	MT	11106	8000	11250	8000	38356
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	410386	300000	360000	340000	1410386
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify)- a. To cement manufacturing industries b. To traders supplying to cement industries	MT	287831	240000	292500	280000	1100331
	Total Ash Utilisation	MT	709323	548000	663750	628000	2549073
C	Ash Utilisation percentage	%	160.76	137.00	147.50	157.00	150.72

Name of the Authorised Person:.....A.K. Mondal, DGM (EES)

Signature:.....*[Signature]* 17/02/19

E-mail id :akmondal@wbpdcl.co.in.

Phone no. :8336903966

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

22

Format for Ash Utilisation Action Plan

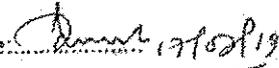
1. Name of the Unit: Bakreswar Thermal Power Station
2. Power Generation Capacity: 1050 MW (5X210)
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Fly ash Generation (MT)	Fly ash utilization (MT)
2017-18	1699633	1689087(99.38%)
2018-19	1605671	1878295(116.98%)

4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	441226	400000	450000	400000	1691226
B	Ash Utilisation	MT	709323	548000	663750	628000	2549073
i)	Brick Manufacturing	MT	11106	8000	11250	8000	38356
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	410386	300000	360000	340000	1410386
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify)- a. To cement manufacturing industries b. To traders supplying to cement industries	MT	287831	240000	292500	280000	1100331
	Total Ash Utilisation	MT	709323	548000	663750	628000	2549073
C	Ash Utilisation percentage	%	160.76	137.00	147.50	157.00	150.72

Name of the Authorised Person: Mr A.K.Mondal, DGM(E&S)

Signature: 

E-mail id : akmondal@wbpdcl.co.in

Phone no. : 8336903966

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

28

S.N.24

24

Ash Utilisation Action Plan

1. Name of the Unit: Rayalaseema Thermal Power Project, Kalamalla (V) , Yerraguntala (M), Kadapa (D), Andhra Pradesh -516 312.
2. Power Generation Capacity: 5 x 210 MW and 1 x 600 MW.
3. Fly Ash Generation and utilization in previous two years (2017-18 and 2018-19):

Sl No.	Financial Year	Ash Generated (MT)	Ash Utilised (MT)	Percentage Utilisation
1	2017-18	2077696	1541584	74.20
2	2018-19	1923957	1617229	84.06

4. Fly Ash Utilisation Action Plan (quarter wise) *:

S. No.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20.
A	Ash Generation (Fly Ash + Bed Ash)	MT	862500	862500	862500	862500	3450000
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	275000	275000	275000	275000	1100000
ii)	Ready Mix Concrete	MT	495000	495000	495000	495000	1980000
iii)	Low Lying area filling/ Area Development	MT	0.0	0.0	0.0	0.0	0.0
iv)	Road Construction	MT	7500	7500	7500	7500	30000
v)	Filling of abandoned stone quarry	MT	0.0	0.0	0.0	0.0	0.0
vi)	Mines void filling	MT	0.0	0.0	0.0	0.0	0.0
vii)	Agriculture Utilisation	MT	0.0	0.0	0.0	0.0	0.0
viii)	If any other area (Specify)	MT	0.0	0.0	0.0	0.0	0.0
	Total Ash Utilisation	MT	777500	777500	777500	777500	3110000
C	Ash Utilisation percentage	%	90.14	90.14	90.14	90.14	90.14

Name of the Authorised Person: M.S.V.Subramanyam , Chief Engineer/O&M/RTPP.

[Handwritten Signature]

Signature : Chief Engineer/O&M
R.T.P.P., V.V. Reddy Nagu

E-mail id : rtppece@apgenco.gov.in, rtppeep@apgenco.gov.in, rtppe.detch@apgenco.gov.in.

Phone no. : 9440907113, 9440907120, 9440907145

***Note :**
TPPs having fly ash utilization less than 85% will be given two years time period and
TPPs having utilization more than 85% will be given one year time period to achieve
100% fly ash utilization.

(21)

S.N. 25

(25)

FORMAT FOR FLY ASH UTILISATION ACTION PLAN

1. Name of the Unit: Sri Damodaram Sanjeevalah Thermal Power Station (SDSTPS)
2. Power Generation Capacity: 1600 MW (2 x 800 MW)
3. Fly ash generation and utilisation during the previous two years (2017-18 & 2018-19):

	2017-18	2018-19
Ash generation	827295	1213636
Ash utilisation	622567	792655
% of Ash Utilisation	75.25%	65.31%

Details of utilization for the FY- 2018-19							
S.NO	Description	Unit	Q1	Q2	Q3	Q4	TOTAL
A	Ash Generation (Fly Ash + Bed Ash)	MT	372059	277456	298761	265360	1213636
B	Ash Utilisation	MT	165438	210756	201255	215206	792655
i)	Brick Manufacturing	MT	28247	33939	47533	30269	139988
ii)	Ready Mix Concrete	MT	5000	0	1000	11950	17950
iii)	Low Lying area filling/ Area Development	MT	48625	49200	8600	30000	136425
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0

Fly Ash Utili

S.NO
A
B

viii)	If any other area (Cement, AC Sheet & others)	MT	83566	127617	144122	142987	
	Total Ash Utilisation	MT	165438	210756	201255	215206	792
C	Ash Utilisation percentage	%	44.47	75.96	67.36	81.10	65

4. Details of utilization for the FY- 2019-20 (quarter wise)*:

S.NO	Description	Unit	Q1	Q2	Q3	Q4	Total
A	Ash Generation (Fly Ash + Bed Ash)	MT	413917	400949	276345	388552	1479763
B	Ash Utilisation	MT	138823	219060	359576	543071	1260530
i)	Brick Manufacturing	MT	31732	32142	20726	29141	113742
ii)	Ready Mix Concrete	MT	2700	8723	4318	11657	27397
iii)	Low Lying area filling/ Area Development	MT	1200	7100	38000	75000	121300
iv)	Road Construction	MT	0.00	2000	110000	165000	277000
v)	Filling of abandoned stone quarry	MT	0		0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (Cement, AC Sheet & others)	MT	103191	169095	186533	262273	721092
	Total Ash Utilisation	MT	138823	219060	359576	543071	1260530
C	Ash Utilisation percentage	%	33.54	54.64	130.12	139.77	85.18

Fly Ash Utilisation Action Plan FOR THE YEAR 2020-21 (quarter wise)*:

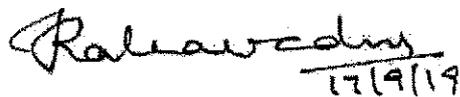
S.NO	Description	Unit	Q1	Q2	Q3	Q4	TOTAL
A	Ash Generation (Fly Ash + Bed Ash)	MT	393704	403903	276345	388552	1462504
B	Ash Utilisation	MT	393704	403903	276345	388552	1462504
i)	Brick Manufacturing	MT	29528	30293	20726	29141	109688
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	9843	10098	6909	9714	36563
iv)	Road Construction	MT	88583	90878	62178	87424	329063
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (Cement, AC Sheet & others)	MT	265750	272634	186533	262273	987190
	Total Ash Utilisation	MT	393704	403903	276345	388552	1462504
C	Ash Utilisation percentage	%	100.00	100.00	100.00	100.00	100.00

Name of the Authorised Person: CH.KRISHNA PRASAD

Signature:.....
 E-mail appdcl.office@gmail.com,
 id : appdcl.office@apgenco.gov.in

Phone no. : 9493122798

*Note :
 TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.


 17/9/19
 CHIEF GENERAL MANAGER
 APPDCL

S.N. 26

Adani Power Maharashtra Limited

Tinoda TPP: Ash Utilization Plan (Fig in Lac Tons)

S.No.	Particulars	Estimated Fly Ash Generation	Utilization						Utilization without Ash Dyke raising & HCSD Mound formation		Ash Dyke Raising	HCSD Mound Formation	Total Utilization with Ash Dyke raising & HCSD Mound formation		
			Reclamation of Low - lying area	Supply to cement companies	Supply for Road Projects	Brick Plants	Packing in 50 kg bags for RMC	Own/Pvt. Siding in Satna Region for Cement Plants	QTY	%			QTY	%	
1	FY 2019-20														
a	Quarter 1	11.38	2.40	0.23	0.30	0.25	0.05	0.00	0.00	1.00	7.16	3.23	28.34	11.38	100.00
b	Quarter 2	7.02	1.60	0.45	0.10	0.25	0.15	0.00	0.00	1.00	3.47	2.55	36.32	7.02	100.00
c	Quarter 3	11.84	6.00	0.90	0.40	0.25	0.20	0.00	0.00	1.50	2.59	7.75	65.46	11.84	100.00
d	Quarter 4	11.50	6.00	0.90	0.30	0.25	0.20	0.00	0.00	1.50	2.35	7.65	66.52	11.50	100.00
2	FY 2020-21														
a	Quarter 1	11.38	5.25	2.18	0.30	0.25	0.20	0.00	0.00	0.75	2.46	8.18	71.84	11.38	100.00
b	Quarter 2	7.02	3.25	1.50	0.10	0.25	0.20	0.00	0.00	0.75	0.97	5.30	75.50	7.02	100.00
c	Quarter 3	11.84	5.72	2.18	0.40	0.25	0.30	3.00	3.00	0.00	0.00	11.84	100.00	11.84	100.00
d	Quarter 4	11.50	5.38	2.18	0.40	0.25	0.30	3.00	3.00	0.00	0.00	11.50	100.00	11.50	100.00

SN 28

Action plan for 100% ash utilization i.r.o Bokaro Thermal Power Station(BTSPS), DVC

Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
Ash Generation (Fly Ash + Bed Ash)	MT	226800	215600	226800	226800	896000
Ash Utilisation	MT	279000	206990	240000	240000	965990
Brick Manufacturing	MT	0	0	0	0	0
Ready Mix Concrete /Cement	MT	450	12290	20000	20000	52740
Low Lying area filling/Area Development	MT	0	0	0	0	0
Road Construction	MT	0	0	0	0	0
Filling of abandoned stone quarry	MT	278550	194700	220000	220000	913250
Mines void filling	MT	0	0	0	0	0
Agriculture Utilisation	MT	0	0	0	0	0
In any other area (Specify)	MT	0	0	240000	240000	965990
Total Ash Utilisation	MT	279000	206990	240000	240000	965990
Ash Utilisation percentage	%	123	96	106	106	108

OP: Kamlesh Kumar , Mail Id: kamlesh.kumar@dvc.gov.in , Mobile: 9431126686

S. N. 30

Action plan for 100% ash utilization i.r.o Koderma Thermal Power Station(KTPS)

	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
i)	Ash Generation (Fly Ash + Bed Ash)	MT	565300	530580	565300	565300	2226480
ii)	Ash Utilisation	MT	422000	500000	650000	650000	2222000
	Brick Manufacturing	MT	0	0	0	0	0
	Ready Mix Concrete /Cement	MT	235000	240000	310000	300000	1085000
iii)	Low Lying area filling/ Area Development	MT	0	0	0	0	0
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	187000	260000	340000	350000	1137000
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	In any other area (Specify)	MT	0	0	0	0	0
	Total Ash Utilisation	MT	422000	500000	650000	650000	2222000
C	Ash Utilisation percentage	%	75	94	115	115	100

S.N. 31

31

FORMAT FOR ASH UTILISATION ACTION PLAN (UKAI TPS)

1. Name of the Unit: GSECL TPS UKAI
2. Power Generation Capacity: 1110 MW (1X500 MW, 2X200 MW & 1X210 MW)
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19): As per Annexure-I
4. Fly Ash Utilisation Action Plan(quarter wise)*: FY 2019-20 & FY 2020-21

Sr. No.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
			(April'19 to June'19) [Actual Utilization]	(July'19 to Sep'19)	(Oct'19 to Dec'19)	(JAN'20 to March'20)	
A	Ash Generation (Fly Ash + Bed Ash)	MT	494161	337426	428475	372167	1632229
B	Ash Utilisation	MT	315723	253070	409211	409559	1387563
i)	Brick Manufacturing	MT	116520	116412	160250	162637	555819
ii)	Ready Mix Concrete / Cement	MT	121081	93636	140120	138817	476647
iii)	Low Lying area filling/ Area Development	MT	0	0	0	0	0
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	0	1000	36000	48000	85000
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify)	MT	78120	42022	72841	60105	253088
	Total Ash Utilisation	MT	315722	253070	409211	409559	1387562
C	Ash Utilisation percentage	%	63.89	75.00	95.50	110.05	85.01

Annexure - I

Sr. No.	Year	TOTAL ASH GENERATED	TOTAL ASH Utilization	Total % age
1	2017-2018	1404886	1065142	75.82
2	2018-2019	1311946	1081151	82.41

Format for Ash Utilisation Action Plan

1. Name of the Unit: Wanakbori Thermal Power Station
2. Power Generation Capacity: 07 units, 210 MW capacity of each unit.
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

	2017-18	2018-19
Fly ash generation (MT)	1816332.06	1687113.25
Fly ash utilization (MT)	1296585.13	1570680.30
% ash utilization	71.38	93.09

4. Fly Ash Utilisation Action Plan (quarter wise)*:

S.N.	Description	Unit	Q1 April'19 to June'19	Q2 July'19 to Sept'19	Q3 Oct'19 to Dec'19	Q4 Jan'20 to Mar'20	Total Fly Ash Utilisation in FY 2019-2020
A	Ash Generation (Fly Ash + Bed Ash)	MT	472646	433120**	563872**	535457**	2005095**
B	Ash Utilisation	MT	415788	404649	607749	583170	2011357
i)	Brick Manufacturing	MT	47542	45478	59207	56223	208449
ii)	Ready Mix Concrete	MT	-	-	-	-	-
iii)	Low Lying area filling/ Area Development	MT	-	-	-	-	-
iv)	Road Construction	MT	-	-	-	-	-
v)	Filling of abandoned stone quarry ***	MT	-	30000	120000	120000	270000
vi)	Mines void filling	MT	-	-	-	-	-
vii)	Agriculture Utilisation	MT	-	-	-	-	-
viii)	If any other area (specify)	Cement	274100	253375	329865	313242	1170583
		Other (Traders)	82796	75796	98678	93705	350974
		Ash Dyke Rising	11350	-	-	-	11350
	Total Ash Utilisation	MT	415788	404649	607749	583170	2011357
C	Ash Utilisation percentage	%	87.97	93.43	107.78	108.91	100.31

Name of the Authorised Person ^{J/S} Chief Engineer (C&O)

Signature:.....

E-mail id : wtps.ceg@gebmil.com

Phone no. : (02699) 235522

*Note : TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

**Ash generated is assumed in Quarter 2 on PLF @ 56.02 %, Quarter 3 on PLF @ 74.02 % & Quarter 4 on PLF @ 75.22 %.

***Work for lifting of Pond ash for Mines/Stone quarry filling has been finalised and work will be start in one month (EPO No.91679).

S.N.35

35

Format for Ash Utilisation Action Plan

1. Name of the Unit: O P Jindal Super Thermal Power Plant-Stage-I (Jindal Power Limited)
2. Power Generation Capacity: (4X250 MW)
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Generation (T)	Utilization (T)	% of utilization
2017-18	1395031.35	1054551.54	75.59
2018-19	1062635.14	1086015.32	102.20

4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	276086.3	413424	422611.2	418017.6	1530139
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	-	-	-	-	-
ii)	Ready Mix Concrete	MT	-	-	-	-	-
iii)	Low Lying areas filling/ Area Development	MT	43750.63	73600	92000	91000	300350.6
iv)	Road Construction	MT	-	-	-	-	-
v)	Filling of abandoned stone quarry	MT	-	-	-	-	-
vi)	Mines void filling	MT	43172	138000	138000	136500	455672
vii)	Agriculture Utilisation	MT	-	-	-	-	-
viii)	If any other area (specify) Ash dyke raising/others	MT	192000	100000	240000	245000	777000
	Total Ash Utilisation	MT	278922.6	311600	470000	472500	1533023
C	Ash Utilisation percentage	%	101.03	75.37	111.21	113.03	100.19

Name of the Authorised Person: B. Govinda Rao

Signature: *B. Govinda Rao*

E-mail id: jpl.emd@jindalpower.com

Phone no. : 9329445056

S.N.38

36

Format for Ash Utilisation Action Plan

- 1.Name of the Unit: O P Jindal Super Thermal Power Plant-Stage-II (Jindal Power Limited)
- 2.Power Generation Capacity: 4X600 MW TPP
- 3.Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Generation (T)	Utilization (T)	% of utilization
2017-18	2272734.45	1749417.86	76.97
2018-19	2303607.49	2351192.11	102.07

4.Fly Ash Utilisation Action Plan (quarter wise) *:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	722154.22	660960	675648	668304	2727066
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	7634.74	12000	12000	12000	43634.74
ii)	Ready Mix Concrete	MT	-	-	-	-	-
iii)	Low Lying area filling/ Area Development	MT	-	-	-	-	-
iv)	Road Construction	MT	-	-	-	-	-
v)	Filling of abandoned stone quarry	MT	-	-	-	-	-
vi)	Mines void filling	MT	246118.09	300000	322000	455000	1323118
vii)	Agriculture Utilisation	MT	-	-	-	-	-
viii)	If any other area (specify) Ash dyke raising/others	MT	483000	175000	450000	260000	1368000
	Total Ash Utilisation	MT	736752.83	487000	784000	727000	2734753
C	Ash Utilisation percentage	%	102.02	73.68	116.04	108.78	100.28

Name of the Authorised Person: B. Govinda Rao

Signature: *B. Govinda Rao*

E-mail id: jpl.emd@jindalpower.com

Phone no.: 9329445056

S.N. 37



Name of the Unit: KSK Mahanadi Power Company Limited.
 Power Generation Capacity: 3600 MW (1800 MW Operational and 1800 MW under construction).
 Format for Ash Utilisation Action Plan

Unit-III	Commercial Operation Date: 14.8.2013	As per fly ash Management rules Fly ash Utilization Target: 100%
Unit-IV:	Years of Operation: Vth Year	
Commercial Operation Date: 26.08.2014	Years of Operation: Vth Year	Fly ash Utilization Target: 100%
Unit-II	Years of Operation: 2 nd year	Fly ash Utilization Target: 70
Commercial Operation Date: 26.08.2018		

S.N.	Description	Unit	FY2019-20				FY2019-20				Total Fly Ash Utilisation in FY 2019-20				
			Q1 (Apr, May, June-2019)		Q2 (Jul, Aug, Sept-2019)		Q3 (Oct, Nov, Dec-2019)		Q4 (Jan, Feb, Mar-2020)						
			Unit-3	Unit-4	Unit-2	Unit-3	Unit-4	Unit-2	Unit-3	Unit-4	Unit-2	Unit-3	Unit-4	Unit-2	
A	Ash Generation (Fly Ash + Bed Ash)	MT	110530	253881	254863	29460	161602	184610	283500	283500	283500	283500	283500	283500	2695946
B	Ash Utilisation	MT	110530	253881	183086	29460	161602	146265	283500	283500	283500	283500	283500	283500	2585823
i)	Brick Manufacturing	MT	0	667	21	0	0	0	1000	1000	1000	1000	1000	1000	6688
ii)	Ready Mix Concrete	MT	100583	175551	7946	26808	106044	5484	178605	178605	178605	178605	178605	178605	1494046
iii)	Low Lying area Filling/ Area Development	MT	0	0	0	0	246	0	0	0	0	0	0	0	246
iv)	Road Construction	MT	0	0	0	0	431	0	0	0	0	0	0	0	431
v)	Filling of abandoned stone quarry	MT	0	54814	152181	0	40336	124166	75545	75545	75545	75545	75545	75545	824767
vi)	Mines void filling	MT	0	0	0	0	0	0	0	0	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0	0	0	0	0	0	0	0	0
viii)	If any other area (specify)- Bottom Ash storage at Dyke	MT	9947	22849	22938	2651	14545	16615	28350	28350	28350	28350	28350	28350	259645
	Total Ash Utilisation	MT	110530	253881	183086	29460	161602	146265	283500	283500	283500	283500	283500	283500	2585823
C	Ash Utilisation percentage	%	100%	100%	72%	100	100	79	100	100	100	100	100	100	95.91



FY2020-21

Unit-III	As per fly ash Management rules
Commercial Operation Date: 14.8.2013	Fly ash Utilization Target: 100%
Unit-IV:	
Commercial Operation Date: 26.08.2014	Fly ash Utilization Target: 100%
Unit-II	
Commercial Operation Date: 26.08.2018	Fly ash Utilization Target: 90%

FY2020-21

S.N.	Description	Unit	Q1 (Apr, May, June-2020)				Q2 (Jul, Aug, Sept-2020)				Q3 (Oct, Nov, Dec-2020)				Q4 (Jan, Feb, Mar-2021)				Total Fly Ash Utilisation in FY 2018-19
			Unit-3	Unit-4	Unit-2	Unit-1	Unit-3	Unit-4	Unit-2	Unit-1	Unit-3	Unit-4	Unit-2	Unit-1	Unit-3	Unit-4	Unit-2	Unit-1	
A	Ash Generation (Fly Ash + Bed Ash)	MT	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	3402000
B	Ash Utilisation	MT	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	3402000
i)	Brick Manufacturing	MT	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	12000
ii)	Ready Mix Concrete	MT	178605	178605	178605	178605	178605	178605	178605	178605	178605	178605	178605	178605	178605	178605	178605	178605	2143660
iii)	Low Lying area filling/ Area Development	MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
iv)	Road Construction	MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	75545	75545	75545	75545	75545	75545	75545	75545	75545	75545	75545	75545	75545	75545	75545	75545	906540
vi)	Mines void filling	MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
viii)	If any other area (specify)- Bottom Ash storage at Dyke	MT	28350	28350	28350	28350	28350	28350	28350	28350	28350	28350	28350	28350	28350	28350	28350	28350	340200
	Total Ash Utilisation	MT	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	283500	3402000
C	Ash Utilisation percentage	%	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Name of the Authorised Person: **Dr. M.V.Rama Narasimhacharyulu**
 Signature:
 mail id : acharyulu.m@ksk.co.in; envksk@ksk.co.in
 Phone no. : 09391371293

Format for Ash Utilisation Action Plan

1. Name of the Unit: Lalitpur Power Generation Company Limited
2. Power Generation Capacity: 3x660 MW Super critical TPP
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

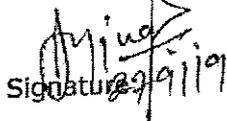
Date of Commissioning	Unit 1	26.03.2016
	Unit 2	08.01.2016
	Unit 3	01.04.2016

Ash Utilization	Year	Target % Ash Utilization	Ash Generation (MT)	Ash Utilization (MT)	% Utilization
1st Year	2016-17	50	865487	589328	68.1
2nd Year	2017-18	70	1702566	1462937	85.9
3rd year	2018-19	90	1133435	1179541	104.1

4. Fly Ash Utilisation Action Plan (quarter wise) *:

S. N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	467018	450000	550000	550000	2017018
B	Ash Utilisation	MT	472327	470000	620000	620000	2182327
i.	Brick Manufacturing	MT	9106	10000	20000	20000	59106
ii.	Ready Mix Concrete	MT	-	-	-	-	-
iii.	Low Lying area filling/ Area Development	MT	256935	215000	325000	325000	1121935
iv.	Road Construction	MT	-	-	-	-	-
v.	Filling of abandoned stone quarry	MT	-	-	-	-	-
vi.	Mines void filling	MT	-	-	-	-	-
vii.	Agriculture Utilisation	MT	-	-	-	-	-
viii.	Cement Manufacturer	MT	206286	245000	275000	275000	1001286
	Total Ash Utilisation	MT	472327	470000	620000	620000	2182327
C	Ash Utilisation percentage	%	101.1	104.4	112.7	112.7	108.2

Name of the Authorised Person: Dr AV Singh, Chief Sustainability Officer

Signature: 

E-mail id : avsingh@lpgcl.com

Phone no. : +91 120 4045319

***Note :** LPGCL is committed towards creating a clean and safe environment in and around the manufacturing facility and also to maintain 100% ash utilization in subsequent years.

S.N 39

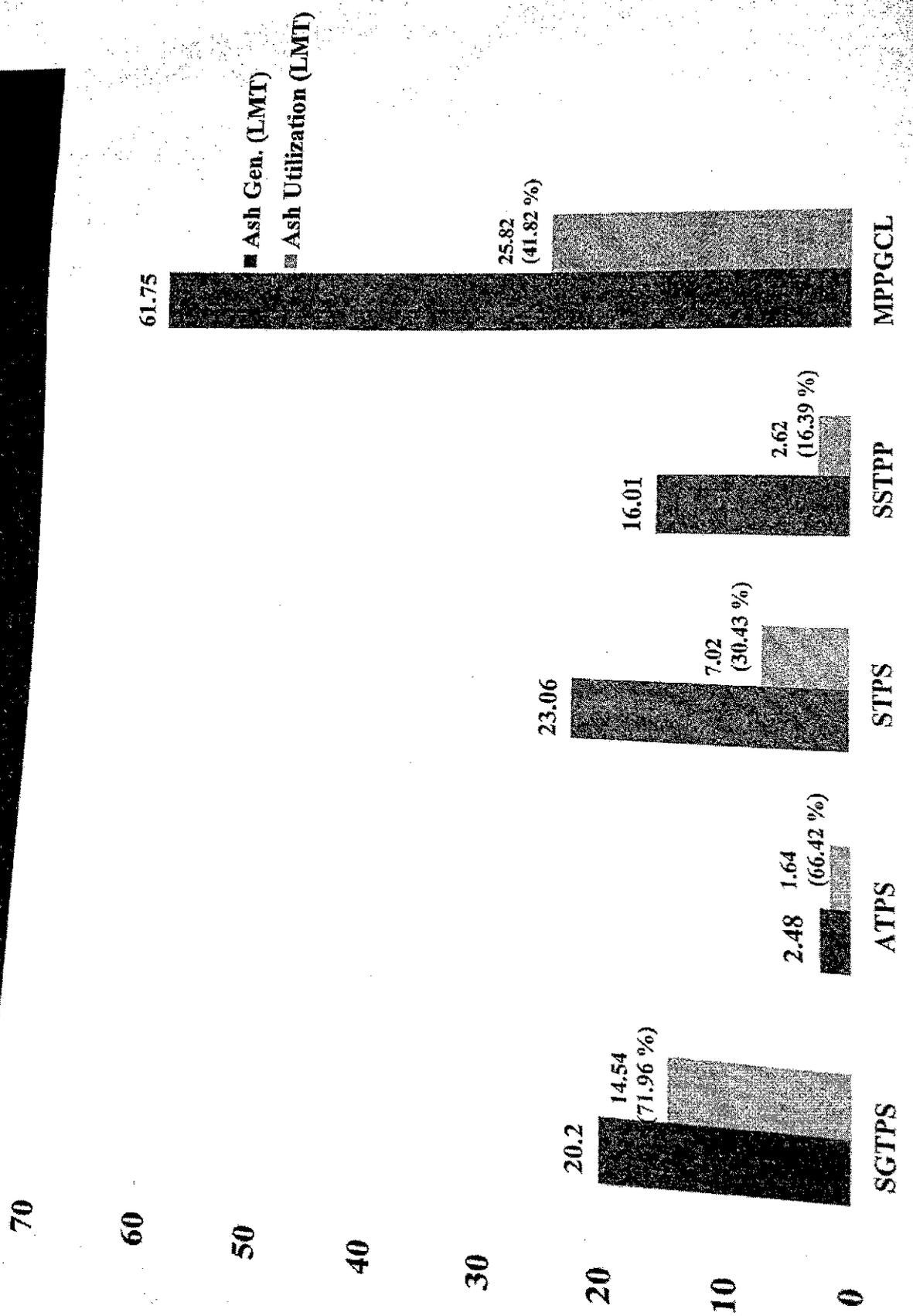
Action Plan for 2019-20 for 100 % Utilization

In addition of existing utilization, following areas, as per the statutory requirements have been identified to increase fly ash utilization in 2019-20.

TPS	Areas of Utilization	Status of NOC from Mine Deptt.	Status of NOC from MPPCB	Quantity (LMT)	Utilization %
ATPS Chachai	<ul style="list-style-type: none">▪ Low laying▪ Road Embankments	Not required	Appl. submitted on 29/03/2019	0.60	100%
SGTPS BRS	Low-Lying areas	-----	Appl. submitted on 08/04/2019	5.0	100%
STPS Sami	<ul style="list-style-type: none">• WCL Mine (filling started)• 4 stone query mines	-----	-----	0.30	100 %
SSTPP Khandwa (I)	Stone query mine	Obtained on 22/03/2019	Appl submitted on 30/03/2019	5.57	
SSTPP Khandwa (II)	Disposal through new Ash silos w.e.f. May-June-19.	obtained on 08/02/2019	Obtained on 28/03/2019	11.2	70-80%
				10.0	50 % (1st Year utilization)

Note:- The proposals for transportation of fly ash to mines / roads / low-lying areas from all above TPSs shall be finalized by June-July 19'.

Fly Ash Gen. & Utilization in FY-2018-19



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S.N. 40

Format for Ash Utilization Action Plan

40

1. Name of the Unit: Bhusawal Thermal Power Station M.S.P.G.C.L. MAHARASHTRA
2. Power Generation Capacity: 1210 MW
3. Fly Ash generation and utilization in 2019-20:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilization in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	468352.79				
B	Ash Utilization	MT					
i)	Brick Manufacturing (SSI)	MT	38217.40				
ii)	Ready Mix Concrete/Cement Industries	MT	228398.52				
iii)	Low Lying Area Filling / Area Development	MT	-				
iv)	Road Construction	MT	-				
v)	Filling of abandoned stone quarry	MT	-				
vi)	Mines void filling	MT	-				
vii)	Agriculture Utilization	MT	7770				
viii)	If any Other (Bricks from Pond Ash)	MT	29295				
	If any Other (Ash Dyke raising)	MT	141365				
	Total Ash Utilization	MT	445045.92				
C	Ash Utilization percentage	%	95.02				

Name of Authorized person: Mr. R. L. Kachhava

Signature: 
16.07.19

Ex. Engineer (Tech.)
M.S.P.G.C.L., B.T.P.S.,
Deopnagar-425307

E-mail id: ravi.kachhava@gmail.com

Phone no.: 8411956730

(6)

S.N. 42

(42)

Format for Ash Utilisation Action Plan

1. Name of the Unit: Prayagraj Power Generation co. Ltd. Bara, Prayagraj(U.P.)
2. Power Generation Capacity: 3x660 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Financial Year	Ash Generation (MT)	Ash Utilization (MT)	Ash Utilization (%)
FY 2017-18	1006296	831218	82.60
FY 2018-19	134898	125544	93.05

4. Fly Ash Utilisation Action Plan(quarter wise)* 2019-20.

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	(Fly-384972+ Bed-96244)	(Fly-462273+ Bed-115567)	(Fly-426000+ Bed-106500)	(fly-546000+ Bed-136500)	
B	Fly Ash Utilisation	MT	(Actual)	(Actual)	(Estimated)	(Estimated)	
i)	Brick Manufacturing	MT					
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT		117300	50000	81000	248300
iv)	Road Construction	MT					
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	Cement Industries	MT	305557	207738	340000	405000	1258295
ix)	Ash Dyke rinsing	MT	79325	137212	36000	60000	312537
	Total Fly Ash Utilisation	MT	384882	462250	426000	546000	1819132
C	Ash Utilisation percentage	%	99.97%	99.99%	100%	100%	100%

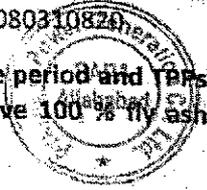
Name of the Authorised Person: A.K. Jain

E-mail id: ajaykumar.jain@jalindia.co.in

(Signature)

Signature: *(Signature)* 2019

Phone no. : 7080310820



*Note: TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

15/0
S.N.43

43

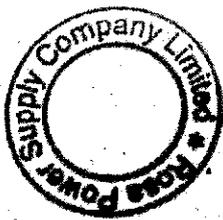
Format for Ash Utilisation Action Plan

1. Name of the Unit: Rosa Power Supply Co. Ltd
2. Power Generation Capacity: 4x300MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):
4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N.	Description	Unit	Q1		Q2		Q3		Q4		FY		Total Fly Ash Utilisation in FY 2019-20
			2017-18	2018-19	2017-18	2018-19	2017-18	2018-19	2017-18	2018-19	2017-18	2018-19	
A	Ash Generation (Fly Ash + Bed Ash)	MT	480813	300863	395176	263877	401851	179293	341657	78339	1619497	822372	372063
B	Ash Utilisation	MT											
i)	Brick Manufacturing	MT	1475	20308	3388	14418	9027	12738	20742	7334	34632	54798	9928
ii)	Ready Mix Concrete	MT	210	210	0	90	275	166	470	284	955	750	419
iii)	Low Lying area filling/ Area Development	MT	50263	18845	50665	10635	66395	22449	62997	44710	230320	96439	46651
iv)	Road Construction	MT	0	0	0	0	0	0	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0	0	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0	0	0	0	0	0	0
vii)	Agriculture Utilisation	MT	20000	11265	30000	7090	30000	14966	32843	0	112843	33321	0
viii)	If any other area (specify)	MT											
a)	Ash dyke rising	MT	102000	0	0	96990	0	146336	0	0	102000	243326	0
b)	Cement Manufacturing	MT	125576	215128	155459	153318	238484	105971	213388	52210	742907	526627	229502
c)	Cenosphere	MT	0	0	0	0	0	0	0	0	0	0	45
	Total Ash Utilisation	MT	299524	265556	249512	282541	344181	302626	330440	104537	1223657	955260	286545
C	Ash Utilisation percentage	%	62.29%	88.26%	63.13%	107.07%	85.64%	168.78%	96.71%	133.44%	76%	116%	77%

Name of the Authorised Person: K. Chandrashekar
 Signature: [Signature]
 E-mail id: K.chandrashekar@rosapower.co.in
 Phone no: 7699123233

*Note : TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.



S.N. 44

Format for Ash Utilisation Action Plan

1. Name of the Unit: Spectrum Coal & Power Ltd. 2X50 MW TPP
2. Power Generation Capacity: 100 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):
Year
2017-18 2018-19
Fly ash generation (MT) 667942 716870
Fly ash utilisation (MT) 579358 551626

4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	160567	150900	153900	152119	617486
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	4149	4149	4149	4149	16596
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT	156417	146751	146751	146751	596670
iv)	Road Construction	MT					0
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					0
vii)	Agriculture Utilisation	MT					
viii)	If any other area (specify)	MT					0.00
C	Total Ash Utilisation	MT	160566	150900	150900	150900	
	Ash Utilisation percentage	%	100	100	100	100	

Name of the Authorised Person: Tushar Ahlawat

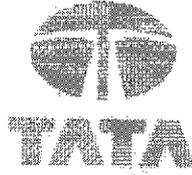
Signature:

E-mail id :tushar.ahlawat@acbindia.com

Phone no. : 9654129396

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.



S.N.45

JPP/GMO/82/19

Date: 24-11-19

To,
Sri. Ritesh Kumar Singh,
Joint Secretary,
Ministry of Environment, Forests & Climate Change,
Indira Paryavaran Bhavan, Ali Ganj,
Jorbagh Road,
New Delhi,
Delhi - 10003.

Sub: — Submission of Ash Utilization Plan for FY 2019-20.

Ref: Joint Committee for Implementation of action plan to achieve 100% Fly Ash Utilization by TPPs held on 18-04-2019 at Teesta Conference Hall, First Floor, Vayu Block, Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, New Delhi - 110003.

Dear Sir,

We are submitting our plan for 100% ash utilization for the period April 2019 to March 2020 pertaining to 1 X 67.5 MW (Unit 1), 2 X 120 MW (Unit 2&3), 1 X 120 MW (Unit 4) and 1 X 120 MW (Unit 5) at Tata Power, Jojobera Power Plant, Jamshedpur, Jharkhand. The detail is attached as Annex - I.

Thanking You,

Yours sincerely,
For The Tata Power Co. Ltd.


(Vijayant Ranjan)
CEO - IEL & Chief -Jamshedpur Operations

CC: Sh. A.N.Singh - Additional Director, MoEF & CC

TATA POWER

The Tata Power Company Limited
Jojobera Power Plant, Jamshedpur - 831016
Tel 91 657 2276878, 6511543

Registered Office: Bombay House 24 Horni Mody Street Mumbai 400 001



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24.4.2

S.N.45

Annex: I

Action plan to achieve 100% Ash Utilization for the period April 2019 to March 2020
(Target Ash Utilization in MT)

	Q1 (April'19- June'19)	Q2 (July 19- Sept'19)	Q3 (Oct'19 - Dec'19)	Q4 (Jan'20 - March'20)	FY 20
Total Fly Ash Generation in MT (Indicative)	302504	308618	287762	288119	1187001
% Utilization in Cement/ Bricks/ Ready mix Concrete/ Pigment/ Asbestos and allied Industries	72.2	71.5	74.6	72.8	72.7
% Utilization for reclamation of low lying areas	27.8	28.5	25.4	27.2	27.3
Total fly ash Utilization (%)	100	100	100	100	100

S.N. 46

46

Format for Ash Utilisation Action Plan

1. Name of the Unit : Mettur Thermal Power Station - II
2. Power Generation Capacity : 1x600 MW
3. Fly Ash generation and utilization in previous two years (2017-18)
4. Fly Ash Utilisation Action Plan (quarter wise)*:

S.No	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2017-18
A	Ash Generation (Fly Ash + Bed Ash)	MT	77128.144	160763.03	160794.210	215747.462	
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	10887.200	16453.320	15464.680	36153.820	78959.020
ii)	Ready Mix Concrete	MT	Nil	Nil	Nil	Nil	Nil
iii)	Low Lying area filling / Area Development	MT	Nil	Nil	Nil	Nil	Nil
iv)	Road Construction	MT	Nil	Nil	Nil	Nil	Nil
v)	Filling of abandoned stone quarry	MT	Nil	Nil	Nil	Nil	Nil
vi)	Mines void filling	MT	Nil	Nil	Nil	Nil	Nil
vii)	Agriculture Utilisation	MT	Nil	Nil	Nil	Nil	Nil
viii)	If any other area (Cement Company)	MT	52988.180	69529.380	74449.960	102622.100	299589.620
ix	Bottom Ash	MT	Nil	Nil	Nil	3991.000	3991.000
	Total Ash Utilisation	MT	63875.380	85952.700	89914.640	142766.920	378548.640
C)	Ash Utilisation percentage	%	86.07	69.38	71.96	77.25	76%

Name of the Authorized Person : **Er. K. Natarajan, M.Tech.,**Signature : 

E-mail id : cemtps2@tnebnnet.org

Phone no. : 04298 - 225451

***Note :**

TPPs having fly ash utilization less than 85% will be given two years time period and TPPs having utilization more than 85% will be given one year time period to achieve 100% fly ash utilization.

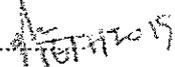
Format for Ash Utilisation Action Plan

46

1. Name of the Unit : Mettur Thermal Power Station - II
2. Power Generation Capacity : 1x600 MW
3. Fly Ash generation and utilization in previous two years (2018-19)
4. Fly Ash Utilisation Action Plan (quarter wise)*:

S.No	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2018-19
A	Ash Generation (Fly Ash + Bed Ash)	MT	235726.278	121789.588	179475.836	173151.789	
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	33203.860	8638.460	29148.680	15979.320	86970.320
ii)	Ready Mix Concrete	MT	Nil	Nil	Nil	Nil	Nil
iii)	Low Lying area filling / Area Development	MT	Nil	Nil	Nil	Nil	Nil
iv)	Road Construction	MT	Nil	Nil	Nil	Nil	Nil
v)	Filling of abandoned stone quarry	MT	Nil	Nil	Nil	Nil	Nil
vi)	Mines void filling	MT	Nil	Nil	Nil	Nil	Nil
vii)	Agriculture Utilisation	MT	Nil	Nil	Nil	Nil	Nil
viii)	If any other area (Cement Company)	MT	85116.300	73574.160	106015.620	116434.120	381140.200
ix)	TANCEM	MT	1436.880	3174.280	7912.980	8285.500	20809.640
x)	Bottom Ash	MT	2397.940	6804.980	9094.140	8189.220	26486.280
	Total Ash Utilisation	MT	120718.100	89017.600	144258.440	140602.660	488920.160
C)	Ash Utilisation percentage	%	62.95	72.40	93.23	92.73	80%

Name of the Authorized Person : **Er. K. Natarajan, M.Tech.,**

Signature : *For* 

E-mail id : cemtps2@tnebnnet.org

Phone no. : 04298 - 225451

***Note :**

TPPs having fly ash utilization less than 85% will be given two years time period and TPPs having utilization more than 85% will be given one year time period to achieve 100% fly ash utilization.

Format for Ash Utilisation Action Plan

46

1. Name of the Unit : Mettur Thermal Power Station - II
2. Power Generation Capacity : 1x600 MW
3. Fly Ash generation and utilization in previous two years (2019-20)
4. Fly Ash Utilisation Action Plan (quarter wise)*:

S.No	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	259298.905	133968.546	197423.419	190466.967	
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	36524.240	9502.300	32063.540	17577.250	95667.330
ii)	Ready Mix Concrete	MT	Nil	Nil	Nil	Nil	Nil
iii)	Low Lying area filling / Area Development	MT	Nil	Nil	Nil	Nil	Nil
iv)	Road Construction	MT	Nil	Nil	Nil	Nil	Nil
v)	Filling of abandoned stone quarry	MT	Nil	Nil	Nil	Nil	Nil
vi)	Mines void filling	MT	Nil	Nil	Nil	Nil	Nil
vii)	Agriculture Utilisation	MT	Nil	Nil	Nil	Nil	Nil
viii)	If any other area (Cement Company)	MT	218556.370	113789.070	146652.070	154767.520	633765.030
ix)	TANCEM	MT	1580.560	3491.700	8704.250	9114.050	22890.560
x)	Bottom Ash	MT	2637.730	7485.470	10003.550	9008.140	29134.890
	Total Ash Utilisation	MT	259298.905	133968.546	197423.419	190466.967	752322.920
C)	Ash Utilisation percentage	%	100	100	100	100	100%

Name of the Authorized Person : **Er. K. Natarajan, M.Tech.,**

Signature : *For [Signature]*

E-mail id : cemtps2@tnebnnet.org

Phone no. : 04298 - 225451

***Note :**

TPPs having fly ash utilization less than 85% will be given two years time period and TPPs having utilization more than 85% will be given one year time period to achieve 100% fly ash utilization.

Format for Ash Utilization Action Plan

S.N. 47

- 1. Name of the Unit: Kakatiya Thermal Power Project -I / TSGENCO
- 2. Power Generation Capacity: 500 MW
- 3. Fly ash generation and utilisation in previous two years :

FY	2017-18	2018-19
Gen (in MT)	8,70,278.20	8,08,802.60
Utilization (in MT)	6,80,194.39	8,20,859.11

- 4. Fly Ash Utilisation Action Plan (quarter wise):

S.No	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	2,07,885.30	2,31,840.00	2,31,840.00	2,29,320.00	
B	Ash Utilisation	MT	2,00,063.34	2,31,840.00	2,37,880.00	2,31,854.00	9,01,637.34
i)	Brick Manufacturing	MT	27,924.21	46,368.00	50,000.00	45,864.00	1,70,156.21
ii)	Ready Mix Concrete	MT	31,282.00	34,776.00	34,776.00	34,398.00	1,35,232.00
iii)	Low Lying area filling/ Area Development	MT		11,592.00	14,000.00	14,000.00	39,592.00
iv)	Road Construction	MT					
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	Cement Industries	MT	86,912.00	92,736.00	92,736.00	91,728.00	3,64,112.00
ix)	Ash Dyke raising	MT	23,093.13	23,184.00	23,184.00	22,932.00	92,393.13
x)	Levelling & Grading	MT	30,852.00	23,184.00	23,184.00	22,932.00	1,00,152.00
	Total Ash Utilisation	MT	2,00,063.34	2,31,840.00	2,37,880.00	2,31,854.00	9,01,637.34
C	Ash Utilisation percentage	%	96.24	100	102.61	101.11	100.08

Note: Almost 100% ash utilization is achieved. 100 % ash utilization will be maintained as per action plan in future quarters.

Name of the Authorized Person : Sri. M. Siddaiah, Chief Engineer/KTPP

Signature:

Email ID: ce.ktpp@tsgenco.co.in

Phone no. 08713- 244002

Chief Engineer / KTPP
Kakatiya Thermal Power Project

(19) S.N. 50

Format for Ash Utilisation Action Plan

1. Name of the Unit: M/s Talwandi Sabo Power Ltd.
2. Power Generation Capacity: 1980 MW (3x660 MW)
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Fly ash generation (MT)	Fly ash utilization (MT)
2018-19	2291110	2498819
2017-18	2123473	1546836

1091
734

4. Fly Ash Utilisation Action Plan (quarter wise) * 2019-20 and 2020-21:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	628626	673000	646000	618800	2566426
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	67102	52000	49000	50000	218102
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	0	45000	32000	27000	104000
iv)	Road Construction	MT	108035	161000	115000	120000	629035
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify)	MT	439536*	281000*	470000*	475000*	1665536*
ix)	If any other area (specify)	MT	0**	0**	100000**	100000**	200000**
	Total Ash Utilisation	MT	614673	539000	766000	772000	2816673
C	Ash Utilisation percentage	%	98	80	119	125	110

* Cement manufacturing

** Ash dyke height rising

Talwandi

S.N. 51

51

Format for Ash Utilisation Action Plan

1. Name of the Unit: APCPL-INDIRA GANDHI SUPER THERMAL POWER PROJECT
2. Power Generation Capacity: 3 X 500 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

S.No.	FY	Ash Generation (MT)	Ash Utilization (MT)	Percentage Utilization
1	2017-18	1619878	1116633	69.93
2	2018-19	1503370	1554498	103.4

4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	198745 (158994 + 39751)	362000 (289600 + 72400)	369000 (295200 + 73800)	428000 (342400 + 85600)	1357745 (1086194 + 271551)
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	118935 (43150 + 75785)	97920 (57920 + 40000)	109040 (59040 + 50000)	118480 (68480 + 50000)	444375 (228590 + 215785)
ii)	Ready Mix Concrete	MT	212708 (115694 + 97014)	281680 (231680 + 50000)	296160 (236160+ 60000)	333920 (273920 +60000)	1124468 (857454 + 267014)
iii)	Low Lying area filling/ Area Development	MT	NIL	NIL	NIL	NIL	NIL
iv)	Road Construction	MT	NIL	NIL	NIL	NIL	NIL
v)	Filling of abandoned stone quarry	MT	NIL	NIL	NIL	NIL	NIL
vi)	Mines void filling	MT	NIL	NIL	NIL	NIL	NIL
vii)	Agriculture Utilisation	MT	NIL	NIL	NIL	NIL	NIL
viii)	If any other area (specify)	MT	NIL	NIL	NIL	NIL	NIL
	Total Ash Utilisation	MT	331643	379600	405200	452400	1565843
C	Ash Utilisation percentage	%	166.87	104.86	109.8	105.7	115.32

Name of the Authorised Person: R.K CHANDER

Signature: [Signature]

E-mail id: RChander@ntpc.co.in

Phone no.: 9216212697

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 85%.

Format for Ash Utilisation Action Plan

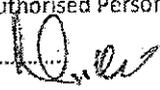
1. Name of the Unit: BALLARI THERMAL POWER STATION
2. Power Generation Capacity: 1700 MW (500X2, 700X1)
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Ash Generation (Fly Ash + Bed Ash) in MT	Utilization in MT	Percentage of ash utilization
2017-18	889059.00	445649.00	50.13
2018-19	996587.00	732919.00	73.54

4. Fly Ash Utilisation Action Plan (quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	291362.00	343368.00	343368.00	339264.00	1317362.00
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	10648.00	20000.00	20000.00	20000.00	70648.00
ii)	Ready Mix Concrete	MT	-	-	-	-	-
iii)	Low Lying area filling/ Area Development	MT	-	-	-	-	-
iv)	Road Construction	MT	-	-	-	-	-
v)	Filling of abandoned stone quarry	MT	-	-	-	-	-
vi)	Mines void filling	MT	-	-	-	-	-
vii)	Agriculture Utilisation	MT	-	-	-	-	-
viii)	If any other area (cement)	MT	269157.00	323368.00	323368.00	319264.00	1235157.00
	Total Ash Utilisation	MT	279805.00	343368.00	343368.00	339264.00	1305805.00
C	Ash Utilisation percentage	%	95.03	100.00	100.00	100.00	99.12

Name of the Authorised Person: Sri. Narendra Kumar, I/c ED(BTPS)

Signature: 

E-mail id : edbtps@gmail.com, edbtps@karnatakapower.com

Phone no. : 08392-288608(LL), 9448290789

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

52

1. Name of the Unit: BALLARI THERMAL POWER STATION
2. Power Generation Capacity: 1700 MW (500X2, 700X1)
3. Fly ash generation and utilisation in previous three years (2017-18, 2018-19 & 2019-20):

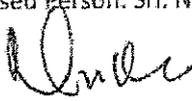
Year	Ash Generation (Fly Ash + Bed Ash) in MT	Utilization in MT	Percentage of ash utilization
2017-18	889059.00	445649.00	50.13
2018-19	996587.00	732919.00	73.54
2019-20	1317362.00	1305805.00	99.12

4. Fly Ash Utilisation Action Plan-2020-21 (quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2020-21
A	Ash Generation (Fly Ash + Bed Ash)	MT	342000.00	343368.00	343368.00	339264.00	1368000.00
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	20000.00	20000.00	20000.00	20000.00	80000.00
ii)	Ready Mix Concrete	MT	-	-	-	-	-
iii)	Low Lying area filling/ Area Development	MT	-	-	-	-	-
iv)	Road Construction	MT	-	-	-	-	-
v)	Filling of abandoned stone quarry	MT	-	-	-	-	-
vi)	Mines void filling	MT	-	-	-	-	-
vii)	Agriculture Utilisation	MT	-	-	-	-	-
viii)	if any other area(cement)	MT	322000.00	340536.00	357704.00	387116.00	1288000.00
	Total Ash Utilisation	MT	342000.00	360536.00	377704.00	407116.00	1487356.00
C	Ash Utilisation percentage	%	100.00	104.99	109.99	119.99	108.71

Name of the Authorised Person: Sri. Narendra Kumar, I/c ED(BTPS)

Signature:



E-mail id : edbtps@karnatakapower.com , edbtps@gmail.com.

Phone no. : 08392-288608, 9448290789.

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan (2019-20)

1. Name of the Unit: Raichur Thermal Power Station
2. Power Generation Capacity: 1720 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year	Fly ash generated in MT	Fly ash lifted in MT	Fly ash Utilization in %
2017-18	2401181	1373193	57.18
2018-19	2216112	1554521	70.14

4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	7,66,704.10	5,44,431	5,44,431	5,44,431	24,00,000
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	88,873.78	95,000	95,000	95,000	3,73,873
ii)	Ready Mix Concrete	MT	--	--	--	--	--
iii)	Low Lying area filling/ Area Development	MT	--	--	--	--	--
iv)	Road Construction	MT	690.00	2,000	2,000	2,000	6,690
v)	Filling of abandoned stone quarry	MT	--	12,500	12,500	12,500	37,500
vi)	Mines void filling	MT	--	6,250	6,250	6,250	18,750
vii)	Agriculture Utilisation	MT	--	--	--	--	--
viii)	If any other area (Cement industries, Fly ash based products, etc)	MT	3,83,690.5	4,27,500	4,27,500	4,27,500	16,66,190
	Total Ash Utilisation	MT	4,73,254.28	5,43,250	5,43,250	5,43,250	21,03,003
C	Ash Utilisation percentage	%	61.72	99.78	99.78	99.78	87.62

Name of the Authorised Person: Sri. S. K. Srinivasa

Signature: 

E-mail id : Semm3rtps@karnatakapower.com

Phone no. : 9449596543

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

5

Format for Ash Utilisation Action Plan (2020-21)

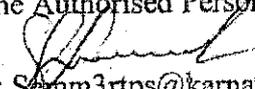
1. Name of the Unit: Raichur Thermal Power Station
2. Power Generation Capacity: 1720 MW
3. Fly ash generation and utilisation in previous two years (2017-18, 2018-19 and 2019-20):

Year	Fly ash generated in MT	Fly ash lifted in MT	Fly ash Utilization in %
2017-18	2401181	1373193	57.18
2018-19	2216112	1554521	70.14
2019-20	24,00,000	21,03,003	87.62

4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2020-21
A	Ash Generation (Fly Ash + Bed Ash)	MT	5,54,028.00	5,54,028.00	5,54,028.00	5,54,028.00	22,16,112.00
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	95,000.00	95,000.00	95,000.00	95,000.00	3,80,000.00
ii)	Ready Mix Concrete	MT	--	--	--	--	--
iii)	Low Lying area filling/ Area Development	MT	--	--	--	--	--
iv)	Road Construction	MT	2,000.00	2,000.00	2,000.00	2,000.00	8,000.00
v)	Filling of abandoned stone quarry	MT	12,500.00	12,500.00	12,500.00	12,500.00	50,000.00
vi)	Mines void filling	MT	6,250.00	6,250.00	6,250.00	6,250.00	25,000.00
vii)	Agriculture Utilisation	MT	--	--	--	--	--
viii)	If any other area (Cement industries, Fly ash based products, etc)	MT	4,38,278.00	4,38,278.00	4,38,278.00	4,38,278.00	17,53,112.00
	Total Ash Utilisation	MT	5,54,028.00	5,54,028.00	5,54,028.00	5,54,028.00	22,16,112.00
C	Ash Utilisation percentage	%	100.00	100.00	100.00	100.00	100.00

Name of the Authorised Person: Sri. S. K. Srinivasa

Signature: 

E-mail id : Skm3rtps@karnatakapower.com

Phone no. 9449596543

Note: Apart from the bottom ash quantity of RTPS, the Yermarus TPS bottom ash quantity is also sent to ash pond of RTPS. The bottom ash quantity of YTPS would be accounted as YTPS ash utilization.

Action Plan with time frame for 100 % Utilization of Fly ash

TPS	Action Plan	Time Frame
 ATPS	Cement & brick manufacturing / Road Embankments / SECL mines	
STPS	Cement & brick manufacturing / Road Construction / Low- Lying areas / Stone Queries / WCL mine filling	
SGTPS	Cement & brick manufacturing / Stone Queries / Road Construction / Low-Lying areas	
SSTPP –Stage-I	Cement & brick manufacturing / Road Embankments/ Low-Lying areas	
SSTPP- Stage-II Commissioned in 03/2019)	Cement & brick manufacturing / as base material in new bund construction /Brick Manufacturing unit in plant premises	

Action Plan with time frame for 100 % Utilization of Fly ash

TPS	Action Plan	Time Frame
ATPS	Cement & brick manufacturing / Road Embankments / SECL mines	
STPS	Cement & brick manufacturing / Road Construction / Low-Lying areas / Stone Queries / WCL mine filling	
SGTPS	Cement & brick manufacturing / Stone Queries / Road Construction / Low-Lying areas	
SSTPP –Stage-I	Cement & brick manufacturing / Road Embankments/ Low-Lying areas	
SSTPP- Stage-II Commissioned in 03/2019)	Cement & brick manufacturing / as base material in new bund construction /Brick Manufacturing unit in plant premises	

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Format for Ash Utilization Action Plan

- Name of the Unit: M/s Jhabua Power Ltd
- Power Generation Capacity: 1 x 600 MW
- Fly ash generation and utilization in previous two years (2017-18 and 2018-19): Attached

FLY ASH GENERATION AND UTILIZATION IN 2017-18

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash generation & Utilization in FY 2017-18
A	Ash Generation (Fly Ash + Bed Ash)	MT	102973	43180	135015	191242	472410
B	Ash Utilization	MT	60870	25726	88065	142040	316701
i)	Brick Manufacturing	MT	1716	2122	7404	14582	25824
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	20595	8636	27003.6	39419.36	95654
iv)	Road Construction	MT	7940	3186	11995	20378	43499
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilization	MT	0	0	0	0	0
viii)	Cement Manufacturing	MT	28600	11046	34782	57152	131580
ix)	Roof Sheeting	MT	2019	736	6882	10509	20146
x)	Total Ash Utilization	MT	60870	25726	88065	142040	316701
C	Ash Utilization percentage	%	59	60	65	74	67

FLY ASH GENERATION AND UTILIZATION IN 2018-19

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S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash generation & Utilization in FY 2018-19
A	Ash Generation (Fly Ash + Bed Ash)	MT	155080	155453	185639	215192	711365
B	Ash Utilization	MT	101627	71987	138499	187573	499687
i)	Brick Manufacturing	MT	6463	10885	10578	14961	42887
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	31015	31091	37128	43038	142273
iv)	Road Construction	MT	7732	1056	1155	3499	13443
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilization	MT	0	0	0	0	0
viii)	Cement Manufacturing	MT	53021	28361	88902	126075	296359
ix)	Roof Sheetting	MT	3396	593	736	0	4725
x)	Total Ash Utilization	MT	101703	71987	138499	187573	499687
C	Ash Utilization percentage	%	65.58	46.31	74.61	87.17	70.24

• Fly Ash Utilization Action Plan (quarter wise) *:

FLY ASH GENERATION AND UTILIZATION IN 2019-20

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilization in FY 2019-20
A	Ash Generation (Fly Ash+Bed Ash)	MT	223556	232148	232148	232148	920000
B	Ash Utilization	MT	142683	200168	200168	200168	743187
i)	Brick Manufacturing	MT	6537	8000	8000	8000	30537
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	44711	46430	46430	46430	184001
iv)	Road Construction	MT	8849	10000	10000	10000	38849

C/L

v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilization	MT	0	0	0	0	0
viii)	Cement Manufacturing	MT	82586	135738	135738	135738	489800
ix)	Roof Sheeting	MT	0	0	0	0	0
	Total Ash Utilization	MT	142683	200168	200168	200168	743187
C	Ash Utilization percentage	%	63.82%	86.22%	86.22%	86.22%	80.78%

FLY ASH GENERATION AND UTILIZATION IN 2020-21

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilization in FY 2020-21
A	Ash Generation (Fly Ash+Bed Ash)	MT	280000	280000	280000	280000	1120000
B	Ash Utilization	MT	142683	280000	280000	280000	982683
i)	Brick Manufacturing	MT	9000	9000	9000	9000	36000
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	56000	56000	56000	56000	224000
iv)	Road Construction	MT	10000	10000	10000	10000	40000
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilization	MT	0	0	0	0	0
viii)	Cement Manufacturing	MT	205000	205000	205000	205000	820000
ix)	Roof Sheeting	MT	0	0	0	0	0
	Total Ash Utilization	MT	280000	280000	280000	280000	1120000
C	Ash Utilization percentage	%	100.00%	100.00%	100.00%	100.00%	100.00%

Name of the Authorized Person: Sri Ghanshyam Raysen

Signature: 

E-mail id : g.raysen@avanthapower.com

Phone no. : 9669074007

*Note :

TPPs having fly ash utilization less than 85 % will be given two years time period and TPPs having utilizations more than 85% will be given one year time period to achieve 100 % fly ash utilization.

- Constraint:**
1. Intermittent operation of power plant due to coal unavailability.
 2. Frequent bulker route diversion from one route to other route.
 3. Distance between power plant and cement manufacturer is more than 300 Km.
 4. Unavailability of abandoned stone quarry nearby the area.

Plan to Achieve 100% Ash Utilisation

YEAR WISE PLAN TO ACHIEVE 100% ASH UTILISATION

Methods of Ash Utilization (yearly) (in Lakh metric tons or LMT)	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Cement Industries		1.97	3.78	3.05	7.6	9.8
Fly Ash Bricks/ Blocks		0.69	2.43	2.52	3.35	5.0
Road construction	2.23	4.62	5.97	9.59	8.5	9.25
Total Ash Utilisation	2.23	7.28	12.18	15.16	19.45	24.05
Total Ash Generation	13.75	17.02	18.74	22.44	24.0	24.0
Yearly Ash Utilization	16.17%	42.76%	64.97%	67.53%	81.04%	100.2%

QUARTER WISE PLAN TO ACHIEVE 100% ASH UTILISATION

Ash Util in Lakh MT	2019-20					2020-21				
	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Total	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Total
Cement Industry	1.70	1.70	2.10	2.10	7.6	2.2	2.4	2.6	2.6	9.8
Fly Ash Bricks	0.75	0.60	1.00	1.00	3.35	1.25	1.25	1.25	1.25	5.0
Road Making	2.25	1.75	2.00	2.50	8.5	2.25	2.15	2.35	2.5	9.25
Total Ash Utilisat	4.7	4.05	5.10	5.6	19.45	5.7	5.8	6.2	6.35	24.05
Total Ash Gen	6.48	4.53	6.48	6.50	24.0	5.62	5.69	6.38	6.31	24.0
Percent age %	72.53	89.4	78.70	86.15	81.04	101.42	101.93	97.17	100.63	100.2

M. S. NAIR
Addl. General Manager (EM&AU)
NTPC Tamilnadu Energy Company Ltd.
Vallur Thermal Power Project

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Proposed Action Plan 100% Ash Utilization

S.N.	Description	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
A	Ash Generation	MT	1074965	1050000	1075000	1050000	1075000
B	Ash Utilization						
i)	Brick Manufacturing	MT	16506	20000	20000	25000	45000
ii)	Ready Mix Concrete /Cement/Asbestos	MT	23940	25000	25000	100000	200000
iii)	Low Lying area filling/ Area Development	MT	173903	120000	130000	100000	110000
iv)	Road Construction	MT	4720	15000	30000	30000	20000
v)	Abandoned stone quarry	MT	430000	500000	550000	530000	200000
vi)	Mines void filling	MT	0	0	0	0	500000
vii)	Agriculture Utilisation	MT	0	2000	2000	4000	5000
viii)	Others(Cenosphere)	MT	84	90	90	90	90
	Total Ash Utilization	MT	649153	682090	757090	789090	1080090
C	Ash Utilization percentage	%	60	65	70	75	100

Note: 100% utilization has been projected anticipating allotment of void mine to OPGC in the year 2020-21 and increase in demand from Cement manufacturing in the locality from the year 2022-23 onwards.

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Ash Util in 18-19 (%)		80.14						
ASH UTILIZATION PLAN 2019-20								
NAME OF STATION: NTPC Farakka			ANNUAL Target AU (%)					
TOTAL ASH Generation (Lakh Ton)			84.39					
Month/ Area	Ash Generation (LMT)	Low Lying area Decolpment (MT)	CEMENT/RMIC (MT)	BRICK/BLOCK (MT)	Roads/emabank ment ~ (MT)	Others(Agriculture & others (MT)	Total (MT)	% AU
Apr-19	2.75	70000	40000	5000	47000	5000	167000	60.73
May-19	2.70	60000	40000	5000	80000	5000	190000	70.37
Jun-19	2.90	60000	45000	5000	85000	5000	200000	68.97
Q-1	8.35	190000	125000	15000	212000	15000	567000	66.71
Jul-19	2.50	60000	30000	8000	85000	10000	193000	77.20
Aug-19	2.50	60000	30000	8000	95000	10000	203000	81.20
Sep-19	2.80	60000	30000	8000	95000	10000	203000	72.50
Q-2	7.80	180000	90000	24000	275000	30000	599000	76.79
Oct-19	2.55	80000	45000	10000	110000	5000	250000	98.04
Nov-19	2.55	80000	40000	8000	115000	5000	248000	97.25
Dec-19	2.55	80000	45000	8000	110000	5000	248000	97.25
Q-3	7.65	240000	130000	26000	335000	15000	746000	97.52
Jan-20	2.70	80000	50000	10000	110000	5000	255000	94.44
Feb-20	2.70	85000	50000	10000	110000	5000	260000	96.30
Mar-20	2.70	90000	50000	10000	120000	5000	275000	101.85
Q-4	8.10	255000	150000	30000	340000	15000	790000	97.53
TOTAL	32	865000	495000	95000	1162000	75000	2692000	84.39

* NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station.

Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC gazette notification.

Subject to use of fly ash bricks/blocks/files by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

Ash Util in 18-19 (%)		80.14						
ASH UTILIZATION PLAN 2020-21								
NAME OF STATION: NTPC Farakka		ANNUAL Target AU (%)						
TOTAL ASH Generation (Lakh Ton)		100.00						
Month/ Area	Ash Generation (LMT)	BRICK/BLOCK (MT)	Total (MT)					
	Low Lying area Development (MT)	Roads/embankment * (MT)	Others/Agriculture & others (MT)					
Apr-20	2.70	80000	60000	10000	110000	5000	265000	98.15
May-20	2.70	80000	60000	10000	113000	5000	268000	99.26
Jun-20	2.70	85000	65000	10000	110000	5000	275000	101.85
Q-1	8.10	245000	185000	30000	333000	15000	808000	99.75
Jul-20	2.50	60000	50000	8000	100000	10000	228000	91.20
Aug-20	2.50	60000	48000	8000	100000	10000	226000	90.40
Sep-20	2.80	70000	50000	8000	100000	10000	238000	85.00
Q-2	7.80	190000	148000	24000	300000	30000	692000	88.72
Oct-20	2.55	80000	65000	10000	110000	5000	270000	105.88
Nov-20	2.55	80000	65000	10000	110000	5000	270000	105.88
Dec-20	2.55	80000	65000	10000	110000	5000	270000	105.88
Q-3	7.65	240000	195000	30000	330000	15000	810000	105.88
Jan-21	2.70	80000	65000	10000	110000	5000	270000	100.00
Feb-21	2.70	80000	70000	10000	120000	5000	285000	105.56
Mar-21	2.70	90000	75000	10000	120000	5000	300000	111.11
Q-4	8.10	250000	210000	30000	350000	15000	865000	105.56
TOTAL	32	925000	738000	114000	1313000	75000	3165000	100.00

* NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station.

Subject to low lying area development with in 300 Kms radius from power plant, by fly ash as per MoEF& CC gazette notification.

Subject to use of fly ash bricks/blocks/files by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

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ASH UTILIZATION PLAN 2019-20													
NAME OF STATION : NTPC Mouda		AU achieved in 2018-19		90.21%		93.01							
ANNUAL ASH Generation (Ton)		3089000		ANNUAL ASH UTILIZATION (%)		93.01							
ANNUAL ASH UTILIZATION (MT)		2873000		CEMENT/RMC (In MT)		BRICK/BLOCK (MT)		Roads/ Embankment (MT)		Mine filling (MT)			
Month	Ash Generation (MT)	Low Lying area Development (MT)								Export (MT)	Others (Agriculture & others (MT)	Total (MT)	Quarterly % AU
Apr-19	259000	0	36000	90000	120000	0	0	0	0	0	5000	251000	
May-19	260000	0	42000	90000	120000	0	0	0	0	0	5000	257000	
Jun-19	260000	0	42000	90000	120000	0	0	0	0	0	5000	257000	
Q-1	779000	0	120000	270000	360000	0	0	0	0	0	15000	765000	98.20
Jul-19	250000	0	35000	55000	90000	0	0	0	0	0	5000	185000	
Aug-19	250000	0	35000	55000	90000	0	0	0	0	0	5000	185000	
Sep-19	250000	0	35000	55000	90000	0	0	0	0	0	5000	185000	
Q-2	750000	0	105000	165000	270000	0	0	0	0	0	15000	665000	74.000
Oct-19	260000	5000	45000	80000	120000	0	0	0	0	0	5000	255000	
Nov-19	260000	5000	42000	80000	120000	0	0	0	0	0	5000	252000	
Dec-19	260000	5000	42000	80000	120000	0	0	0	0	0	5000	252000	
Q-3	780000	15000	129000	240000	360000	0	0	0	0	0	15000	759000	97.31
Jan-20	260000	5000	45000	90000	120000	0	0	0	0	0	5000	265000	
Feb-20	260000	5000	42000	100000	110000	0	0	0	0	0	5000	262000	
Mar-20	260000	10000	42000	100000	110000	0	0	0	0	0	5000	267000	
Q-4	780000	20000	129000	290000	340000	0	0	0	0	0	15000	794000	101.79
TOTAL ASH UTILIZATION	3089000	35000	483000	965000	1330000	0	0	0	0	0	60000	2873000	93.01

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NAME OF STATION : NTPC Mouda		ASH UTILIZATION PLAN 20-21															
ANNUAL ASH Generation (Ton)		AU achieved in 2018-19		ANNUAL ASH UTILIZATION (%)		Roads/ Embankment (MT) *		Mine filling (MT)		Export (MT)		Others(Agriculture & others (MT)		Total (MT)		Quarterly % AU	
Month	Low Lying area Development (MT)	CEMENT/IRMC/Asbestos (In MT)	BRICK/BLOCK (MT)	BRICK/BLOCK (MT)	CEMENT/IRMC/Asbestos (In MT)	Low Lying area Development (MT)	Export (MT)	Others(Agriculture & others (MT)	Total (MT)	Quarterly % AU	Export (MT)	Others(Agriculture & others (MT)	Total (MT)	Quarterly % AU			
Apr-20	0	45000	95000	95000	45000	0	0	5000	265000	102.05	0	5000	265000	102.05			
May-20	0	45000	95000	95000	45000	0	0	5000	265000	102.05	0	5000	265000	102.05			
Jun-20	0	45000	95000	95000	45000	0	0	5000	265000	102.05	0	5000	265000	102.05			
Q-1	0	135000	285000	285000	135000	0	0	15000	795000	102.05	0	15000	795000	102.05			
Jul-20	0	35000	85000	85000	35000	0	0	5000	215000	86.933	0	5000	215000	86.933			
Aug-20	0	35000	85000	85000	35000	0	0	5000	217000	86.933	0	5000	217000	86.933			
Sep-20	0	35000	85000	85000	35000	0	0	5000	220000	86.933	0	5000	220000	86.933			
Q-2	0	105000	255000	255000	105000	0	0	15000	632000	86.933	0	15000	632000	86.933			
Oct-20	5000	45000	110000	110000	45000	5000	0	5000	275000	105.38	0	5000	275000	105.38			
Nov-20	5000	45000	110000	110000	45000	5000	0	5000	275000	105.38	0	5000	275000	105.38			
Dec-20	5000	42000	110000	110000	42000	5000	0	5000	272000	105.38	0	5000	272000	105.38			
Q-3	15000	132000	330000	330000	132000	15000	0	15000	822000	105.38	0	15000	822000	105.38			
Jan-21	5000	45000	110000	110000	45000	5000	0	5000	285000	105.38	0	5000	285000	105.38			
Feb-21	5000	42000	110000	110000	42000	5000	0	5000	272000	105.38	0	5000	272000	105.38			
Mar-21	10000	42000	100000	100000	42000	10000	0	5000	267000	105.38	0	5000	267000	105.38			
Q-4	20000	129000	350000	350000	129000	20000	0	15000	824000	105.38	0	15000	824000	105.38			
TOTAL ASH UTILIZATION	35000	501000	1190000	1190000	501000	35000	0	60000	3093000	100.00	0	60000	3093000	100.00			

* NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station. Subject to low lying area development with in 300 Kms radius from power plant. by fly ash as per MoEF & CC gazette notification. Subject to use of fly ash bricks/blocks/files by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

NTPC - Kudgji		AU Plan 2019-20			Target ANNUAL AU %		
% AU in 2018-19		64.29			77.06		
Month	Ash Prodn (MT)	Cement and asbestos (MT)	Bricks & Blocks (MT)	Low Lying Area (MT)	Others(Agriculture & others (MT)	Total Utilisation (Tons)	% AU
Apr-19	169000	112000	300	0	5000	117300	69.41
May-19	169000	120000	300	0	5000	125300	74.14
Jun-19	169000	120000	300	0	5000	125300	74.14
Q-1	507000	352000	900	0	15000	367900	72.56
Jul-19	162000	110000	1000	5000	5000	121000	74.69
Aug-19	162000	110000	1000	5000	5000	121000	74.69
Sep-19	162000	110000	1000	5000	5000	121000	74.69
Q-2	486000	330000	3000	15000	15000	363000	74.69
Oct-19	200000	140000	3000	5000	5000	153000	76.50
Nov-19	200000	140000	3000	5000	5000	153000	76.50
Dec-19	200000	140000	3000	5000	5000	153000	76.50
Q-3	600000	420000	9000	15000	15000	459000	76.50
Jan-20	200000	140000	10000	5000	5000	160000	80.00
Feb-20	200000	150000	10000	5000	5000	170000	85.00
Mar-20	200000	150000	10000	5000	5000	170000	85.00
Q-4	600000	440000	30000	15000	15000	500000	83.33
Total	2193000	1542000	42900	45000	60000	1689000	77.06

* NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned FIU of NHAI with the station

Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC gazette notification.

Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

		% AU in 2018-19	64.29	AU Plan 20-21			Target ANNUAL AU %	
NTPC - Kudgi								
Month	Ash Prath (MT)	Cement and asbestos (MT)	Bricks & Blocks (MT)	Low Lying Area (MT)	Others(Agriculture & others) (MT)	Total Utilisation (Tons)	% AU	
Apr-20	170000	155000	10000	4000	5000	174000	102.35	
May-20	170000	155000	10000	4000	5000	174000	102.35	
Jun-20	170000	160000	10000	4000	5000	179000	105.29	
Q-1	510000	470000	30000	12000	15000	527000	103.33	
Jul-20	162000	130000	5000	7000	5000	147000	90.74	
Aug-20	162000	130000	5000	7000	5000	147000	90.74	
Sep-20	162000	130000	5000	7000	5000	147000	90.74	
Q-2	486000	390000	15000	21000	15000	441000	90.74	
Oct-20	200000	175000	10000	10000	5000	200000	100.00	
Nov-20	200000	175000	10000	10000	5000	200000	100.00	
Dec-20	200000	175000	10000	10000	5000	200000	100.00	
Q-3	600000	525000	30000	30000	15000	600000	100.00	
Jan-21	200000	180000	15000	10000	5000	210000	105.00	
Feb-21	200000	180000	15000	10000	5000	210000	105.00	
Mar-21	200000	180000	15000	10000	5000	210000	105.00	
Q-4	600000	540000	45000	30000	15000	630000	105.00	
Total	2196000	1925000	120000	93000	60000	2196000	100.09	

* NTPC has approved format of MOU with NHA. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHA with the station

Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC gazette notification.

Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

S.N. 62

Fly ash generation & utilisation in previous two years (2017-18 & 2018-19):

OPGC

Year	Ash Generation (MT)	Ash Utilization (MT)	Ash Utilization (%)
2017-18	1096142	607344	55.41
2018-19	1014085	343411	33.86

Fly Ash Utilisation Action Plan Year 2019-20 (quarter wise):

S.N.	Description	Unit	Q1 (actual)	Q2 (Projected)	Q3, (Projected)	Q4, (Projected)	Total in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	254965	260000	280000	280000	1074965
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	3506	3000	5000	5000	16506
ii)	Ready Mix Concrete /Cement/Asbestos	MT	5940	6000	6000	6000	23940
iii)	Low Lying area filling/ Area Development	MT	103903	30000	20000	20000	173903
iv)	Road Construction	MT	2720	0	1000	1000	4720
v)	Abandoned stone quarry	MT	0	50000	180000	200000	430000
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	Others: (Cenosphere)	MT	21	21	21	21	84
	Total Ash Utilisation	MT	116090	89021	212021	232021	649153
C	Ash Utilisation percentage	%	45.53	34	76	83	60



Proposed Action Plan 100% Ash Utilization

S.N.	Description	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
A	Ash Generation	MT	1074965	1050000	1075000	1050000	1075000
B	Ash Utilization						
i)	Brick Manufacturing	MT	16506	20000	20000	25000	45000
ii)	Ready Mix Concrete /Cement/Asbestos	MT	23940	25000	25000	100000	200000
iii)	Low Lying area filling/ Area Development	MT	173903	120000	130000	100000	110000
iv)	Road Construction	MT	4720	15000	30000	30000	20000
v)	Abandoned stone quarry	MT	430000	500000	550000	530000	200000
vi)	Mines void filling	MT	0	0	0	0	500000
vii)	Agriculture Utilisation	MT	0	2000	2000	4000	5000
viii)	Others(Cenosphere)	MT	84	90	90	90	90
	Total Ash Utilization	MT	649153	682090	757090	789090	1080090
C	Ash Utilization percentage	%	60	65	70	75	100

Note: 100% utilization has been projected anticipating allotment of void mine to OPGC in the year 2020-21 and increase in demand from Cement manufacturing in the locality from the year 2022-23 onwards.

S.N. 63

ANNEXURE- I

NAME OF THE UNIT: TUTICORIN THERMAL POWER STATION/ TANGEDCO/ TAMIL NADU

POWER GENERATION CAPACITY: 5 X 210 MW

2017-18

S.N	Description	Unit	Q1		Q2		Q3		Q4	
			Dry fly ash	Wet/ Bottom Ash						
A	Ash Generation (Fly Ash + Bed Ash)	MT	181304	131853	146396	92809	130926	88563	178979	152125
B	Ash Utilisation	MT								
i)	Brick Manufacturing	MT	28334		25225		22884		29266	
ii	If any other area (specify) (Cement Companies)	MT	152970		121171		108042		149713	
iii	Others			5714		4404		4375		4637.26
iv	Total Ash Utilisation	MT	181304	5714	146396	4404	130926	4375	178979	4637.26
C	Ash Utilisation percentage	%	100	4.3336	100	4.7452	100	4.94	100	3.04832

Name of the Authorised Person V.Rajendran, EE/ AHP/ TTPS

Signature: Sd*** (15.07.2019)

E-mail id : sem2ttps@tnebnnet.org

Phone no. : 9445856947

ANNEXURE- II

NAME OF THE UNIT: TUTICORIN THERMAL POWER STATION/ TANGEDCO/ TAMIL NADU

POWER GENERATION CAPACITY: 5 X 210 MW

2018-19

S.N	Description	Unit	Q1		Q2		Q3		Q4	
			Dry fly ash	Wet/ Bottom Ash						
A	Ash Generation (Fly Ash + Bed Ash)	MT	188299	103001	178661	78929	158479	67919	166725	76834
B	Ash Utilisation	MT								
i)	Brick Manufacturing	MT	27411		28880		24482		30560	
ii)	If any other area (specify) (Cement Companies)	MT	160888		149781		133997		136165	
iii)	Others			7.46		25.28		7.10		8.72
iv)	Total Ash Utilisation	MT	188299	7.46	178661	25.28	158479	7.1	166725	8.72
C	Ash Utilisation percentage	%	100	0.0072	100	0.032	100	0.0105	100	0.01135

Name of the Authorised Person V.Rajendran, EE/ AHP/ TTPS

Signature: Sd*** (15.07.2019)

E-mail id : sem2ttps@tnebnet.org

Phone no. : 9445856947

ANNEXURE- III

NAME OF THE UNIT: TUTICORIN THERMAL POWER STATION/ TANGEDCO/ TAMIL NADU

POWER GENERATION CAPACITY: 5 X 210 MW

2019-20

S.N	Description	Unit	Q1	
			Dry fly ash	Wet/ Bottom Ash
A	Ash Generation (Fly Ash + Bed Ash)	MT	248186	107958
B	Ash Utilisation	MT		
i)	Brick Manufacturing	MT	42983	
ii	If any other area (specify) (Cement Companies)	MT	205203	
iii	Others			22.1
iv	Total Ash Utilisation	MT	248186	22.1
C	Ash Utilisation percentage	%	100	0.020470924

Name of the Authorised Person V.Rajendran, EE/ AHP/ TTPS

Signature: Sd****(15.07.2019)

E-mail id : sem2ttps@tnebnet.org

Phone no. : 9445856947

(26) S.N. 64

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Format for Ash Utilization Action Plan

1. Name of the Unit: Kakatiya Thermal Power Project -I / TSGENCO
2. Power Generation Capacity: 500 MW
3. Fly ash generation and utilisation in previous two years :

FY	2017-18	2018-19
Gen (in MT)	8,70,278.20	8,08,802.60
Utilization (in MT)	6,80,194.39	8,20,859.11

4. Fly Ash Utilisation Action Plan (quarter wise):

S.No	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation In FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	2,07,885.30	2,31,840.00	2,31,840.00	2,29,320.00	
B	Ash Utilisation	MT	2,00,063.34	2,31,840.00	2,37,880.00	2,31,854.00	9,01,637.34
i)	Brick Manufacturing	MT	27,924.21	46,368.00	50,000.00	45,864.00	1,70,156.21
ii)	Ready Mix Concrete	MT	31,282.00	34,776.00	34,776.00	34,398.00	1,35,232.00
iii)	Low Lying area filling/ Area Development	MT		11,592.00	14,000.00	14,000.00	39,592.00
iv)	Road Construction	MT					
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	Cement Industries	MT	86,912.00	92,736.00	92,736.00	91,728.00	3,64,112.00
ix)	Ash Dyke raising	MT	23,093.13	23,184.00	23,184.00	22,932.00	92,393.13
x)	Levelling & Grading	MT	30,852.00	23,184.00	23,184.00	22,932.00	1,00,152.00
	Total Ash Utilisation	MT	2,00,063.34	2,31,840.00	2,37,880.00	2,31,854.00	9,01,637.34
C	Ash Utilisation percentage	%	96.24	100	102.61	101.11	100.08

Note: Almost 100% ash utilization is achieved. 100 % ash utilization will be maintained as per action plan in future quarters.

Name of the Authorized Person : Sri. M. Siddalah, Chief Engineer/KTTP

Signature:

Email ID: ce.ktpp@tsgenco.co.in
Phone no. 08713- 244002

Chief Engineer / KTTP
Kakatiya Thermal Power Project

S.N. 66

66

Format for Ash Utilisation Action Plan

- Name of the Unit: Sagardighi Thermal Power Project
- Power Generation Capacity: 1600MW

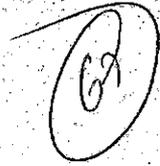
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):			Percentage of Utilization(%)
Year	Total Ash Generation (MT)	Total Ash Utilization(MT)	
2017-18	1380472	904717	65.54
2018-19	1228331	1147009	93.4

4. Fly Ash Utilisation Action Plan(quarter wise)*: For the Year 2019-20

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation In FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	440113	353296	353296	353295	1500000
B	Ash Utilisation	MT	255850	336460.5	336460.5	346229	1275000
i)	Brick Manufacturing	MT	11821	33646	33646	34623	113736
ii)	Ready Mix Concrete	MT	88782	111407	151407	155803	507399
iii)	Low Lying area filling/ Area Development	MT	47000	104115	84115	86557	321787
iv)	Road Construction	MT	108247	87292	67292	69247	332078
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	If any other area (specify)	MT					
	Total Ash Utilisation	MT					
C	Ash Utilisation percentage	%	58.13	95.21	95.21	98	85

Amrit

S.N. 67



Format for Ash Utilisation Action plan

1	Name of The Unit	RTS-B, Ramagundam		
2	Power Generation Capacity	62.5 MW		
3	Fly ash generation and utilisation in previous two years (2017-19 and 2018-19)			
	Fly ash generation in the FY 2017-18	141648.41	MT	
	Fly ash utilisation in the FY 2017-18	98594.62	MT	69.61 %
	Fly ash generation in the FY 2018-19	115123.35	MT	
	Fly ash utilisation in the FY 2018-19	145721.62	MT	126.58 %

Accumulated Ash in Ash pond of Previous years utilised during this FY

4 Fly ash utilization action plan (Quarter wise)

S No	Description	Unit	Q1	Q2	Q3	Q4	Total Fly ash utilisation in Fy 2019-20
A	Ash Generation (Fly ash + Bed Ash)	MT	32076.4	25000	32000	31000	
B	Ash Utilisation	MT	65000	28000	40000	35000	
i	Brick Manufacturing	MT	45000	20000	30000	30000	
ii	Ready mix concrete	MT	Nil	Nil	Nil	Nil	
iii	Low lying area filling/ Area development	MT	20000	8000	10000	5000	
iv	Road construction	MT	Nil	Nil	Nil	Nil	
v	filling of abandoned stone quarry	MT	Nil	Nil	Nil	Nil	
vi	Mines void filling	MT	Nil	Nil	Nil	Nil	
vii	Agriculture utilisation	MT	Nil	Nil	Nil	Nil	
viii	if any other area (Specify)	MT	Nil	Nil	Nil	Nil	
	Total ash utilisation	MT	Nil	Nil	Nil	Nil	
C	Ash utilisation Percentage %	%	65000	28000	40000	35000	
			202.64	112.00	125.00	112.90	

Accumulated Ash in Ash pond of Previous years utilised during this FY

Name of the Authorised person: Shashikanth Singh, EE/civ/RTS-B

Signature:

E-Mail ID: sts.se@tsgenco.co.in

Phone No: 9490610750

[Signature]
 Executive Engineer, (CIVIL)
 TSGENCO, RTS-B,
 RAMAGUNDAM-505 208.

[Signature]
 15/07/2019
 Superintending Engineer / C&M
 RTS 'B' / Ramagundam.

S.N.68

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Ash Utilisation Action Plan

1. Name of the Unit: Bhartiya Rail Bijlee Company Ltd
2. Power Generation Capacity: (4X250 MW) , 750 MW is operational
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

FY	Total Ash Generation (MT)	Total Ash Utilisation (MT)	Percentage
2017-18	2,66,915	75,372	28.23
2018-19	6,10,088	2,09,960	34.41

4. Fly Ash Utilisation Action Plan(quarter wise)* 2019-20 and 2020-21:

S.N.	Description	Unit	Q1 (Actual)	Q2 (anti)	Q3 (anti)	Q4 (anti)	Total Fly Ash Utilisation In FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	27,3303	2,55,000	27,0000	2,75,000	10,73,303
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	2,125	3,000	4,500	5,000	14,625
ii)	Ready Mix Concrete	MT	Nil	Nil	Nil	Nil	Nil
iii)	Low Lying area filling/ Area Development	MT	Nil	Nil	60,000	90,000	1,50,000
iv)	Road Construction	MT	Nil	100	1,000	4,000	5,100
v)	Filling of abandoned stone quarry	MT	Nil	Nil	Nil	Nil	Nil
vi)	Mines void filling	MT	Nil	Nil	Nil	Nil	Nil
vii)	Agriculture Utilisation	MT	Nil	100	250	250	600
viii)	If any other area (cement industry)	MT	1,48,812	1,40,000	1,60,000	1,65,000	6,13,812
	Total Ash Utilisation	MT	1,50,937	1,43,100	2,25,500	2,64,000	7,83,537
C	Ash Utilisation percentage	%	55.23	56.11	83.51	96.00	73.00

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23/12

(100) (2/2)

Name of the Unit: Bhartiya Rail Bijlee Company Ltd

Fly Ash Utilisation Action Plan (quarter wise) FY 2020-21:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation In FY 2020-21
A	Ash Generation (Fly Ash + Bed Ash)	MT	2,75,000	3,40,000*	3,40,000	3,40,000	12,95,000
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	6,000	7,000	7,000	8,000	28,000
ii)	Ready Mix Concrete	MT	Nil	Nil	Nil	Nil	Nil
iii)	Low Lying area filling/ Area Development	MT	90,000	1,00,000	1,00,000	1,00,000	3,90,000
iv)	Road Construction	MT	4,000	4,500	5,000	10,000	23,500
v)	Filling of abandoned stone quarry	MT	Nil	Nil	Nil	Nil	Nil
vi)	Mines void filling	MT	Nil	Nil	Nil	Nil	Nil
vii)	Agriculture Utilisation	MT	Nil	100	250	250	600
viii)	If any other area (cement industry)	MT	1,70,000	1,95,000	1,95,000	2,05,000	7,65,000
	Total Ash Utilisation	MT	2,68,000	3,04,000	3,04,000	3,15,000	11,91,000
C	Ash Utilisation percentage	%	97.45	89.41	89.41	92.65	91.97

Name of the Authorised Person: S K Jain

Signature: 

E-mail id : skjain042ntpc.co.in

Phone no : 9650990106

* COD of Unit# 4 expected by June'2020

S.N. 69

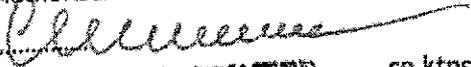
Format for Ash Utilisation Action Plan

1. Name of the Unit : KOTHAGUEDEM THERMAL POWER STATION / V-STAGE
2. Power Generation Capacity : 2 X 250 mw
3. Fly ash generation and utilisation for the year : 2019-2020
4. Fly Ash Utilisation Action Plan(quarter wise)*:

Action Plan for 2019 - 2020 (Quarter Wise *)							
S. NO.	Description	Unit	Q1	Q2	Q3	Q4	Total Ash Utilisation in FY 2017-2018
A	Total Ash Generation (Fly Ash + Bed Ash)	MT	392221.46	425000	420000	400000	1637221.46
B	Total Ash Utilisation						
i)	Brick Manufacturing	MT	8710.85	50000	50000	95000	203710.85
ii)	Ready Mix Concrete	MT	0	20000	50000	50000	120000
iii)	Low Lying area filling/ Area Development (Pond ash)	MT	6800.00	50000	60000	85000	201800
iv)	Road Construction	MT					
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT	0	30000	60000	70000	160000
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify) - Cement	MT	11985.19	20000	100000	100000	231985.19
	Total Ash Utilisation	MT	27496.04	170000.00	320000.00	400000	917496.04
C	Ash Utilisation percentage (Avg.)	%	7.01	40.00	76.19	100.00	56.04

Action Plan for 2020 - 2021 (Quarter Wise *)							
S. No.	Description	Unit	Q1	Q2	Q3	Q4	Total Ash Utilisation in FY 2017-2018
A	Total Ash Generation (Fly Ash + Bed Ash)	MT	400000	395000	400000	390000	1585000
B	Total Ash Utilisation						
i)	Brick Manufacturing	MT	85000	80000	65000	95000	325000
ii)	Ready Mix Concrete	MT	49000	100000	62000	50000	261000
iii)	Low Lying area filling/ Area Development (Pond ash)	MT	80000.00	80000	85000	85000	330000
iv)	Road Construction	MT	40000	7500	8000	0	55500
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	72000	65500	80000	60000	277500
vii)	Agriculture Utilisation	MT	12000	0	0	0	12000
viii)	If any other area (specify) - Cement	MT	62000	62000	100000	100000	324000
	Total Ash Utilisation	MT	400000.00	395000.00	400000.00	390000	1585000
C	Ash Utilisation percentage (Avg.)	%	100	100	100	100	100

Name of the Authorised Person: Sri K. Anandam

Signature: 

E-mail id : CHIEF ENGINEER
 Phone no. : KTPS (O&M), V STAGE,
 PALONCHA-507118.

ce.ktps5@tsgenco.co.in
 08744 - 255272

*Note : TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

S.N.70

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Plant wise Ash utilization by CSPGCL -

FY 2018-19

	LMT	LMT	%	
1	KTPS, Korba East	7.11	7.74	108.85
2	HPS, Korba West & (1x500 MW) Korba West Extn.	26.89	13.64	50.72
3	DSPM TPS, Korba East	9.72	3.19	32.81
4	ABVTPS, Janjhgir Champa	17.26	4.31	24.99
	TOTAL CSPGCL	60.98	28.88	47.36

QUARTERLY ACTION PLAN OF ASH UTILIZATION FOR THE FY 2019-20 & 2020-21

PLANT :- ABV TPS, Janjgir Champa

S. N.	Proposed Ash Utilization In Various Heads	2019-20 LMT	FY 2019-20				2020-21 LMT	FY 2020-21				
			Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4	
			LMT	LMT	LMT	LMT		LMT	LMT	LMT	LMT	LMT
1	Supplied to Cement Plant	9.65	1.50	2.50	2.80	2.85	8.00	2.00	1.50	2.25	2.25	2.25
2	Supply to Brick Manufacturing	0.75	0.20	0.10	0.20	0.25	1.00	0.25	0.25	0.25	0.25	0.25
3	Supply to Land Filling	5.10	2.00	0.50	1.30	1.30	6.00	1.50	0.50	2.00	2.00	2.00
4	Supply to Agriculture	0.30	0.00	0.10	0.10	0.10	0.30	0.10	0.00	0.10	0.10	0.10
5	Supply to Mine Filling	2.50	0.00	0.50	1.00	1.00	2.30	0.70	0.30	0.70	0.70	0.60
6	Other (Road/ Forest/ Nagar Nigam etc.)	0.30	0.00	0.10	0.10	0.10	1.00	0.25	0.00	0.50	0.25	0.25
7	Total Ash Utilization in LMT	18.60	3.70	3.80	5.50	5.60	18.60	4.80	2.55	5.80	5.45	5.45
8	Estimated Ash Generation in LMT	18.60	4.65	4.65	4.65	4.65	18.60	4.65	4.65	4.65	4.65	4.65
9	% age Ash Utilization	100.00%	79.57%	81.72%	118.28%	120.43%	100.00%	103.23%	54.84%	124.73%	117.20%	117.20%

S.N. 71

Plant wise Ash utilization by CSPGCL -

FY 2018-19

		LMT	LMT	%
1	KTPS, Korba East	7.11	7.74	108.85
2	HTPS, Korba West & (1x500 MW) Korba West Extn.	26.89	13.64	50.72
3	DSPM TPS, Korba East	9.72	3.19	32.81
4	ABVTPS, Janjgir Champa	17.26	4.31	24.99
	TOTAL CSPGCL	60.98	28.88	47.36

QUARTERLY ACTION PLAN OF ASH UTILIZATION FOR THE FY 2019-20 & 2020-21

PLANT :- DSPM TPS, Korba East

S. N.	Proposed Ash Utilization In Various Heads	2019-20 LMT	FY 2019-20				2020-21 LMT	FY 2020-21					
			Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4		
			LMT	LMT	LMT	LMT		LMT	LMT	LMT	LMT		
1	Supplied to Cement Plant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Supply to Brick Manufacturing	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00	0.10	0.10	0.10
3	Supply to Land Filling	3.15	0.80	0.70	0.80	5.30	1.70	1.00	1.00	1.00	1.00	1.60	1.60
4	Supply to Agriculture	0.00	0.00	0.00	0.00	0.20	0.05	0.05	0.05	0.05	0.05	0.05	0.05
5	Supply to Mine Filling	3.00	1.00	0.50	0.75	4.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	Other (Road/ Forest/ Nagar Nigam etc.)	0.30	0.10	0.10	0.00	0.30	0.08	0.08	0.08	0.08	0.07	0.07	0.07
7	Total Ash Utilization in LMT	6.45	1.90	1.30	1.55	10.00	2.83	2.13	2.83	2.50	2.50	2.82	2.82
8	Estimated Ash Generation in LMT	10.00	2.50	2.50	2.50	10.00	2.50	2.50	2.50	2.50	2.50	2.50	2.50
9	% age Ash Utilization	64.5%	76.0%	52.0%	62.0%	100.0%	113.2%	85.2%	113.2%	88.8%	88.8%	112.8%	112.8%

Plant wise Ash utilization by CSPGCL – FY 2018-19

		LMT	LMT	%
1	KTPS, Korba East	7.11	7.74	108.85
2	HTPS, Korba West & (1x500 MW) Korba West Extn.	26.89	13.64	50.72
3	DSPM TPS, Korba East	9.72	3.19	32.81
4	ABVTPS, Janjhgir Champa	17.26	4.31	24.99
	TOTAL CSPGCL	60.98	28.88	47.36

S.N. 73

Action plan for 100% ash utilization I.ro Durgapur Thermal Power Station(DTPS), DVC

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	24400	56672	62824	62824	206720
B	Ash Utilisation	MT	1660	1360	75000	75000	153020
i)	Brick Manufacturing	MT	0	0	0	0	0
ii)	Ready Mix Concrete /Cement	MT	1660	1360	25000	25000	53020
iii)	Low Lying area filling/ Area Development	MT	0	0	0	0	0
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	0	0	50000	50000	100000
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	In any other area (Specify)	MT	0	0	0	0	0
Total Ash Utilisation		MT	1660	1360	75000	75000	153020
C	Ash Utilisation percentage	%	7	2	119	119	74

HOP:K K Sharma , Mail Id:kamlesh.sharma@dvc.gov.in ,Mobile: 9006972282

S.N.74

Action plan for 100% ash utilization i.r.o Raghunathpur Thermal Power Station (RTPS), DVC

Total Fly Ash Utilisation in FY 2019-20

Unit Q1 Q2 Q3 Q4

Sl. No.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	315800	417080	315800	315800	1364480
B	Ash Utilisation	MT	33210	37300	95000	145000	310510
i)	Brick Manufacturing	MT	0	0	0	0	0
ii)	Ready Mix Concrete /Cement	MT	33210	37300	95000	145000	310510
iii)	Low Lying area filling/ Area Development	MT	0	0	0	0	0
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	In any other area (Specify)	MT	0	0	0	0	0
	Total Ash Utilisation	MT	33210	37300	95000	145000	310510
C	Ash Utilisation percentage	%	11	9	30	46	23

OP: Ananta Chakraborty, Mail Id: ananta.chakraborty@dvc.gov.in, Mobile: 9430386124

13

S.N. 75

Format for Ash Utilisation Action Plan

1. Name of the Unit: Hinduja National Power Ltd
2. Power Generation Capacity: 2x 520 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Year: 2017-2018 and 2018-2019

S.N.	Description	Unit	2017-18	2018-19
A	Ash Generation	MT	611345	199142
B	Ash Utilisation	MT	110503	510908
C	Ash Utilisation percentage	%	18.07	256.55

Fly Ash Utilisation Action Plan for 2019-20 (quarter wise)

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	236722	230000	230000	230000	926722
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	56161	25000	35000	40000	186161
ii)	Ready Mix Concrete	MT	61381	70000	75000	85000	201381
iii)	Low Lying area filling/ Area Development	MT		20000	25000	75000	120000
iv)	Road Construction	MT		25000	25000	25000	95000
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	If any other area (specify)	MT					
	Total Ash Utilisation	MT	117542	140000	160000	225000	642542
C	Ash Utilisation percentage	%	49.7	60.87	69.56	97.82	69.33

Fly Ash Utilisation Action Plan for 2020-21 (quarter wise)

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2020-21
A	Ash Generation (Fly Ash + Bed Ash)	MT	230000	230000	230000	230000	920000
B	Ash Utilisation	MT					205000
i)	Brick Manufacturing	MT	50000	50000	50000	55000	349000
ii)	Ready Mix Concrete	MT	80000	84000	90000	95000	260000
iii)	Low Lying area filling/ Area Development	MT	20000	60000	90000	90000	120000
iv)	Road Construction	MT	30000	30000	30000	30000	
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	If any other area (specify)	MT					
	Total Ash Utilisation	MT	180000	224000	260000	270000	930000
C	Ash Utilisation percentage	%	78.26	97.39	113.04	117.4	101.08

Name of the Authorised Person: Rudra Charan Padhy

Signature:.....

E-mail id : rcpadhy.hnp@hindujagroup.com

Phone no. : 9004071117

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years' time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Expected constraints for 100% Utilisation:- It is to inform that there are multiple constraints for 100% Ash Utilisations for our plant as it is located at Vishakapatnam and the off takers for Ash Utilisation is very few.

There are no cement plants near the Power plant location for taking ash for use.

S.N. 76

76

Ash Utilisation Action Plan(2019-20)

1. Name of the Unit: KANTI BILEE UTPADAN NIGAM LIMITED
2. Power Generation Capacity: 610 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19): in MT
541193/187220 (2017-18) and 811822/329276 (2018-19)
4. Fly Ash Utilisation Action Plan (quarter wise) *:- 2019-20

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	2,65,778	1,70,000	2,55,000	2,70,000	9,60,778
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	2727	5000	20,000	22,950	50,677
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT	1,43,469	1,40,000	90,000	75,000	4,48,669
iv)	Road Construction	MT	0	0	0	1,00,000	1,00,000
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	Sale of Ash	MT	931	19,069	30,000	50,000	1,00,000
	Total Ash Utilisation	MT	1,47,064	1,64,069	1,40,000	2,47,950	6,99,083
C	Ash Utilisation percentage	%	55.33	84.6	58.33	95.37	72.76

Name of the Authorised Person: ...Mr . Dipak Nath.....

Signature:.....

E-mail id : ...dipaknath@ntpc.co.in.....

Phone no. : ...9650990233.....

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

76

Ash Utilisation Action Plan(2020-21)

5. Name of the Unit: KANTI BIJLEE UTPADAN NIGAM LIMITED
 6. Power Generation Capacity: 610 MW
 7. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19): in MT
 541193/187220 (2017-18) and 811822/329276 (2018-19)
 8. Fly Ash Utilisation Action Plan (quarter wise) * :- 2020-21

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2020-21
A	Ash Generation (Fly Ash + Bed Ash)	MT	2,65,778	2,11,000	2,40,000	2,60,000	9,76,778
B	Ash Utilisation	MT					
i)	Brick Manufacturing	MT	20,000	16,000	20,000	20,000	76,000
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT	1,20,900	1,10,000	1,20,000	1,10,000	4,50,900
iv)	Road Construction	MT	50,000	50,000	50,000		1,50,000
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	Sale of Ash	MT	70,000	80,000	70,000	80,000	3,00,000
	Total Ash Utilisation	MT	2,60,900	2,56,000	2,60,000	2,10,000	9,86,900
C	Ash Utilisation percentage	%	98.16	121.59	112.50	76.92	101.01

Name of the Authorised Person: ...Mr . Dipak Nath.....

Signature:.....

E-mail id : ...dipaknath@ntpc.co.in.....

Phone no. : ...9650990233.....

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation



S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilization in FY 2019-20
A	Ash Generation (Fly Ash + Bottom Ash)	MT	278916	189952	228252	267909	965029
B	Ash Utilisation	MT	183222	203763	276500	320067	983552
i)	Brick Manufacturing	MT	900	1185	1500	1500	5085
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	79735	41260	75000	75000	270995
iv)	Road Construction	MT	0	136	40000	40000	80136
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	80000	120000	200000
vii)	Agriculture Utilisation	MT	0				0
viii)	cement	MT	71331	82438	80000	83566	317336
viii)	If any other area (specify)	MT	31256	78744			110000
X	Total Ash Utilisation	MT	183222	203763	276500	320067	983552
C	Ash Utilisation percentage	%	65.69	107.27	121.14	119.47	101.92

A. Fly Ash Utilisation Status FY 17-18

S. N	Month	Ash Generation (MT)	Supply to Cement Plant (MT)	Supply to Brick Manufact. (MT)	Supply for other Uses (MT)		Supply for other Uses (MT)	Total(MT)/ Month	% Utilisation/ Month
					Road Construction (Through PWD, State highway & National Highway)	(Construction of Road inside plant, Expansion Project, Land Development)			
1	Apr-17	109321	1100	25	0	0	0	1125	1.03
2	May-17	97519	1000	0	0	0	0	1000	1.03
3	Jun-17	84149	575	0	0	0	0	575	0.68
4	Jul-17	81111	575	0	0	0	0	575	0.71
5	Aug-17	67004	175	0	425	0	0	600	0.90
6	Sep-17	72826	0	0	1550	0	0	1550	2.13
7	Oct-17	90209	0	0	1200	49000	0	50200	55.65
8	Nov-17	81572	0	0	325	51000	0	51325	62.92
9	Dec-17	62222	0	0	3690	58532	0	62222	100.00
10	Jan-18	84147	0	25	2000	82119	0	84144	100.00
5	Feb-18	92880	75	1025	17000	74780	0	92880	100.00
6	Mar-18	97124	8430	0	1760	86934	0	97124.2	100.00
Total		1020085	11930	1075	27950	402365.15	0	443320	43.46

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B. Fly Ash Utilisation Status-2018-19

S. N	Month	Ash Generation (MT)	Supply to Cement Plant (MT)	Supply to Brick Manufacturing (MT)	Supply to Land Filling (MT)	Supply to Ash Dyke Height Raising (MT)	Supply to Agriculture (MT)	Supply to Mine Filling (MT)	Supply to Other Use (MT)	Total (MT)	Percent age (%)
1	Apr-18	88292	13271	0	5918	69103	0	0	0	88292	100.00
2	May-18	102892	6777	0	0	14500	0	0	0	21277	20.68
3	Jun-18	106397	19273	0	2496	14500	0	0	0	36269	34.09
4	Jul-18	110483	9462.2	0	3342	0	0	0	0	12804	11.59
5	Aug-18	80908	4432	240	12000	0	0	0	0	16672	20.61
6	Sep-18	77322	6067	213	11014	0	0	0	0	17294	22.37
7	Oct-18	90206	20828	330	14500	0	0	0	175	35833	39.72
8	Nov-18	108403	22159	220	57815	0	0	0	0	80194	73.98
9	Dec-18	112630	16923	360	68211	0	0	0	0	85494	75.91
10	Jan-19	93593	51430	400	31396	0	0	0	0	83226	88.92
11	Feb-19	85066	35236	250	22618	0	0	0	251	58355	68.60
12	Mar-19	93775	38615	300	908	0	0	0	0	39823	42.47
Total		1149966	244473	2313	230218	98103	0	0	426	575533	50.05

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Ash Utilization Report 2019-20

S. N	Month	Ash Generation (MT)	Supply to Cement Plant (MT)	Supply to Brick Manufacturing (MT)	Supply to Land Filling (MT)	Supply to Ash Dyke Height Raising (MT)	Supply to Agriculture (MT)	Supply to Mine Filling (MT)	Supply To Any Other Use (MT)	Supply to Road Constructions (MT)	Total (MT)	Percentage (%)
1	Apr-19	86246	21291	300	3338	31256	0	0	0	0	56185	65.15
2	May-19	104183	20688	300	31986	0	0	0	0	0	52974	50.85
3	Jun-19	88486	29352	300	44411	0	0	0	0	0	74063	83.70
4	Jul-19	73615	29865	407	41260	0	0	0		135.62	71668	97.35
5	Aug-19	66336	26482	378		43744	0	0	0		70604	106.43
Total		418866	127678	1685	120995	75000	0	0	0	136	325494	77.71

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1. Action Plan for 100% Fly Ash Utilization 2019-20

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilization in FY 2019-20
A	Ash Generation (Fly Ash + Bottom Ash)	MT	278916	189952	228252	267909	965029
B	Ash Utilisation	MT	183222	203763	276500	320067	983552
i)	Brick Manufacturing	MT	900	1185	1500	1500	5085
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	79735	41260	75000	75000	270995
iv)	Road Construction	MT	0	136	40000	40000	80136
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	80000	120000	200000
vii)	Agriculture Utilisation	MT	0				0
viii)	cement	MT	71331	82438	80000	83566.52	317336
ix)	If any other area (specify)	MT	31256	78744			110000
X	Total Ash Utilisation	MT	183222	203763	276500	320067	983552
C	Ash Utilisation percentage	%	65.69	107.27	121.14	119.47	101.92

Name :- P. D. V. V. P. S. S. D.

Signature :- P. D. V. V. P. S. S. D.

Mobile :- 98420-1234567890

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S.N. 78

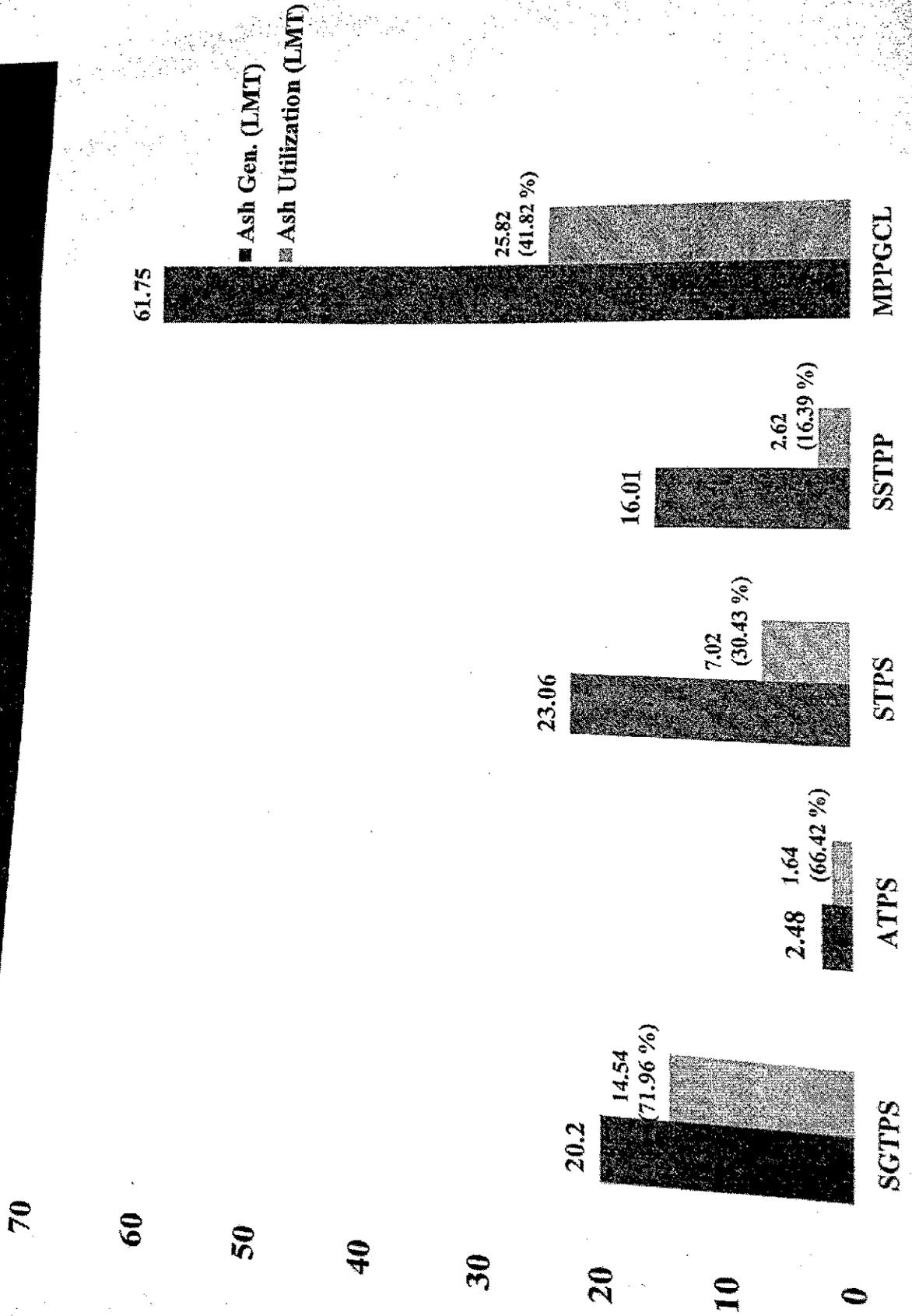
Action Plan for 2019-20 for 100 % Utilization

In addition of existing utilization, following areas, as per the statutory requirements have been identified to increase fly ash utilization in 2019-20.

TPS	Areas of Utilization	Status of NOC from Mine Deptt.	Status of NOC from MPPCB	Quantity (LMT)	Utilization %
ATPS Chachai	▪ Low laying ▪ Road Embankments	Not required -----	Appl. submitted on 29/03/2019 -----	0.60 0.60	100%
SGTPS BRS	Low-Lying areas	-----	Appl. submitted on 08/04/2019	5.0	100%
STPS Sami	• WCL Mine (filling started) • 4 stone query mines	----- Obtained on 22/03/2019	----- Appl submitted on 30/03/2019	0.30 5.57	100 %
SSTPP Khandwa (I)	Stone query mine	obtained on 08/02/2019	Obtained on 28/03/2019	11.2	70-80%
SSTPP Khandwa (II)	Disposal through new Ash silos w.e.f. May-June-19.			10.0	50 % (1st Year utilization)

Note:- The proposals for transportation of fly ash to mines / roads / low-lying areas from all above TPSs shall be finalized by June-July 19'.

Fly Ash Gen. & Utilization in FY-2018-19



S.N.79



Ash Utilisation Action Plan: Unit-3 to Unit-7: FY 2019-20

1. Name of the Unit: Chandrapur Super Thermal Power Station, Chandrapur
2. Power Generation Capacity: 1920 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

FY	Fly Ash Generation	Fly Ash Utilization	% Utilization
FY 2017-18	16,37,897 MT	6,81,030 MT	41.57 %
FY 2018-19	19,23,341 MT	7,08,296 MT	36.82 %

4. Fly Ash Utilisation Action Plan (quarter wise)* : 2019-20:

S.N.	Description	Unit	Q1 (2019-20)	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	8,62,330	16,30,764	7,94,378	9,38,459	42,25,931
B	Ash Utilisation	MT	1,92,880	69,828	4,44,852	5,25,537	12,33,097
i)	Brick Manufacturing	MT	8302	800	1,74,763	2,06,461	3,90,326
ii)	Ready Mix Concrete	MT	0	0	11,121	13,138	24,259
iii)	Low Lying area filling/ Area Development	MT	0	0	46,868	55,369	1,02,237
iv)	Road Construction	MT	0	0	58,784	69,446	1,28,230
v)	Filling of abandoned stone quarry	MT	0	0	34,953	41,292	76,245
vi)	Mines void filling	MT	0	0	5,561	6,569	12,130
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify)	MT	0	0	0	0	0
	Total Ash Utilisation	MT	2,01,180	70,627	17,476	20,646	38,122
C	Ash Utilisation percentage	%	22.54%	10.85%	100%	100%	58.34

Note: Considering projected coal consumption having ash percentage @34%.

Name of the Authorised Person: Chief Engineer (O&M)

Signature:

E-mail id : cegenchandrapur@mahagenco.in

Phone no. : 07172-220155 to 220159

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

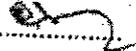
Ash Utilisation Action Plan: Unit-3 to Unit-7: FY 2020-21

5. Name of the Unit: Chandrapur Super Thermal Power Station, Chandrapur
6. Power Generation Capacity: 1920 MW
7. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19): N.A.
8. Fly Ash Utilisation Action Plan (quarter wise)* : 2020-21:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	4,41,406	7,70,044	10,11,694	9,89,701	32,12,845
B	Ash Utilisation	MT	2,47,188	4,31,226	5,66,549	5,54,233	17,99,196
i)	Brick Manufacturing	MT	97,109	1,69,410	2,22,573	2,17,734	7,06,826
ii)	Ready Mix Concrete	MT	6,180	10,781	14,164	13,856	44,981
iii)	Low Lying area filling/ Area Development	MT	26,043	45,433	59,690	58,392	1,89,558
iv)	Road Construction	MT	32,664	56,983	74,865	73,238	2,37,750
v)	Filling of abandoned stone quarry	MT	19,422	33,882	44,515	43,547	1,41,366
vi)	Mines void filling	MT	3,090	5,390	7,082	6,928	22,490
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify)	MT	9,711	16,941	22,257	21,773	70,682
	Total Ash Utilisation	MT	4,41,406	7,70,046	10,11,694	9,89,701	32,12,847
C	Ash Utilisation percentage	%	100%	100%	100%	100%	100%

Note: Considering projected coal consumption having ash percentage @34%.

Name of the Authorised Person: Chief Engineer (O&M)

Signature: 

E-mail id : cegenchandrapur@mahagenco.in

Phone no. : 07172-220155 to 220159

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Ash Utilisation Action Plan: Unit-8 & Unit-9: FY 2020-21

Name of the Unit: Chandrapur Super Thermal Power Station, Chandrapur

Power Generation Capacity: 1000 MW

Fly ash generation and utilisation in previous two years (2017-18 and 2018-19): N.A.

8. Fly Ash Utilisation Action Plan(quarter wise)* 2020-21:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	4,41,406	7,70,046	10,11,694	9,89,701	32,12,847
B	Ash Utilisation	MT	2,47,188	4,31,226	5,66,549	5,54,233	17,99,196
i)	Brick Manufacturing	MT	97,109	1,69,410	2,22,573	2,17,734	7,06,826
ii)	Ready Mix Concrete	MT	6,180	10,781	14,164	13,856	44,981
iii)	Low Lying area filling/ Area Development	MT	26,043	45,433	59,690	58,392	1,89,558
iv)	Road Construction	MT	32,664	56,983	74,865	73,238	2,37,750
v)	Filling of abandoned stone quarry	MT	19,422	33,882	44,515	43,547	1,41,366
vi)	Mines void filling	MT	3,090	5,390	7,082	6,928	22,490
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify) Cenosphere	MT	9,711	16,941	22,257	21,773	70,682
	Total Ash Utilisation	MT	4,41,406	7,70,046	10,11,694	9,89,701	32,12,847
C	Ash Utilisation percentage	%	100%	100%	100%	100%	100%

Note: For achieving 100% ash utilization at Unit-8&9, CSTPS will try to achieve 100% ash utilization within two years.

Name of the Authorised Person: Chief Engineer (O&M)

Signature: 

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Phone no. : 07172-220155 to 220159

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Ash Utilisation Action Plan: Unit-8 & Unit-9: FY 2019-20

1. Name of the Unit: Chandrapur Super Thermal Power Station, Chandrapur
2. Power Generation Capacity: 1000 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

FY	Fly Ash Generation	Fly Ash Utilization	% Utilization
FY 2017-18	10,57,355 MT	28,726 MT	2.72 %
FY 2018-19	11,61,880 MT	3,27,848 MT	28.21 %

4. Fly Ash Utilisation Action Plan(quarter wise)* 2019-20:

S.N.	Description	Unit	Q1 (2019-20)	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	4,59,909	3,75,363	5,08,861	4,14,794	15,19,606
B	Ash Utilisation	MT	1,73,777	95,808	2,84,962	2,32,285	7,05,895
i)	Brick Manufacturing	MT	0	178	1,11,949	91,255	2,03,375
ii)	Ready Mix Concrete	MT	0	0	7,124	5,807	12,931
iii)	Low Lying area filling/ Area Development	MT	0	0	30,023	24,473	54,496
iv)	Road Construction	MT	0	0	37,656	30,695	68,351
v)	Filling of abandoned stone quarry	MT	0	0	22,390	18,251	40,641
vi)	Mines void filling	MT	0	0	3,562	2,904	6,466
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify) Cenosphere	MT	8	16	11,195	9,125	20,328
	Total Ash Utilisation	MT	1,73,785	96,002	5,08,861	4,14,794	11,12,489
C	Ash Utilisation percentage	%	37.78%	25.92%	100%	100%	85.92

Note: For achieving 100% ash utilization at Unit-8&9, CSTPS will try to achieve 100% ash utilization within two years.

Name of the Authorised Person: Chief Engineer (O&M)

Signature: 

E-mail id : cegenchandrapur@mahagenco.in

Phone no. : 07172-220155 to 220159

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

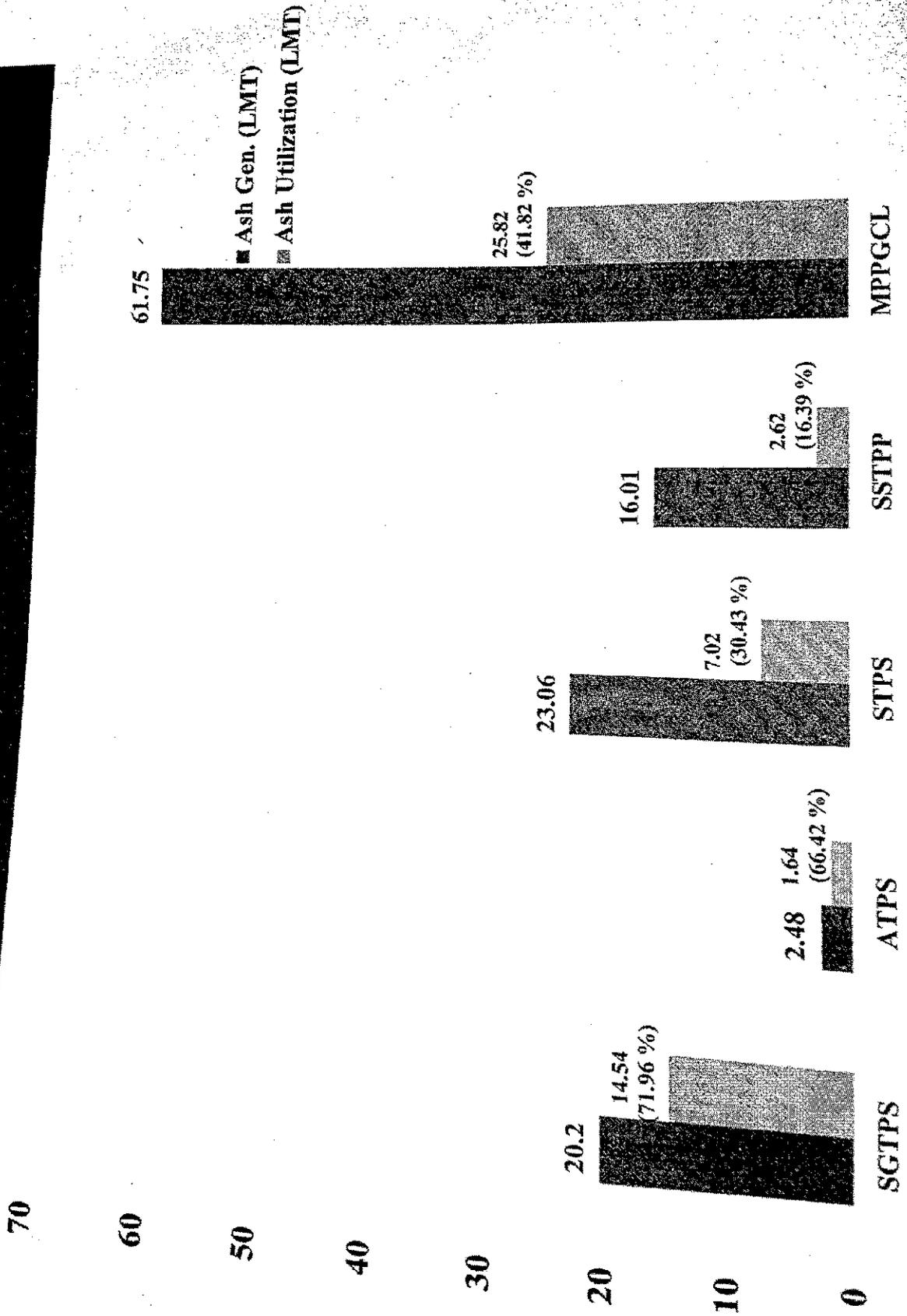
Action Plan for 2019-20 for 100 % Utilization

In addition of existing utilization, following areas, as per the statutory requirements have been identified to increase fly ash utilization in 2019-20.

TPS	Areas of Utilization	Status of NOC from Mine Deptt.	Status of NOC from MPPCB	Quantity (LMT)	Utilization %
ATPS Chachai	<ul style="list-style-type: none"> ▪ Low laying ▪ Road Embankments 	Not required	Appl. submitted on 29/03/2019	0.60	100%
SGTPS BRS	Low-Lying areas	-----	Appl. submitted on 08/04/2019	5.0	100%
STPS Sami	<ul style="list-style-type: none"> • WCL Mine (filling started) • 4 stone query mines 	-----	-----	0.30	100 %
SSTPP Khandwa (I)	Stone query mine	Obtained on 22/03/2019	Appl submitted on 30/03/2019	5.57	
SSTPP Khandwa (II)	Disposal through new Ash silos w.e.f. May-June-19.		Obtained on 28/03/2019	11.2	70-80%
				10.0	50 % (Ist Year utilization)

Note:- The proposals for transportation of fly ash to mines / roads / low-lying areas from all above TPSs shall be finalized by June-July 19'.

Fly Ash Gen. & Utilization in FY-2018-19



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Format For the Ash Utilisation Action Plan

Name of the Unit		Paras Thermal Power Station Paras		
Generation capacity		2 X 250 MW		
Fly Ash Gen & utilisation in previous Q2 years	Fly Ash Gen	Fly Ash Utilisation (MT)	% Utilisation	
2017-18	542428	214590	39.56	
2018-19	517737	226549	43.76	
Fly ash utilisation action plan		2019-20		

Sr No	Description	Unit	Q1	Q2	Q3	Q4	Total Fly ash Utilisation
A	Ash Gen (Fly ash + Bottom Ash)	MT	253906	189040	234600	229500	907046
B	Ash Utilisation (MT)	MT	253754	189000	234600	229500	906854
i	Bricks Manufacturing	MT	239164	170100	211140	160650	781054.22
ii	Ready Mix Concreat	MT	14590	18900	23460	22950	79900.3
iii	Low lying area filling/ Area development	MT	0	0	0	0	0
iv	Road Construction	MT	0	0	0	45900	45900
v	Filling of abundant stone quarry	MT	0	0	0	0	0
vi	Mine void filling	MT	0	0	0	0	0
vii	Agree utilisation	MT	0	0	0	0	0
viii	If any other (Specify)	MT	0	0	0	0	0
	Total ash Utilisation	MT	253754	189000	234600	229500	906854
	Ash Utilisation	%	99.94	99.98	100.00	100.00	100

(Q1 dry fly ash utilisation is 88.63% for year 2019-20)

Name of Authorised Person:- Shri R.V.Gore, Superintending Engineer
 Email ID :- cgmparas@mahagenco.in
 Phone No :- 7507999663

S.N. 84

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ASH UTILIZATION PLAN 2019-20

NAME OF STATION : JTPC- Singrauli		% AU in 18-19		35.21		50.14		Target AU %		50.14	
ANNUAL ASH Generation (Ton)		3162922		Target ANNUAL ASH UTILIZATION (%)		50.14					
ANNUAL ASH UTILIZATION (Ton)		1585752									
Month/ Area	Ash Generation (MT)	Low Lying area Development (MT)	CEMENT/RMC/Asbestos (In MT)	BRICK/BLOCK (MT)	Roads/ Other Embankment *(MT)	Mine/ Stone quarry filling (MT)	Others (Agriculture & others) (MT)	Total (MT)	% Ash Utilization		
Apr-19	268913	63750	300	0	0	0	22400	86450	32.15		
May-19	275743	56000	300	0	0	0	42000	98300	35.65		
Jun-19	330702	67200	250	60	0	0	45590	113100	34.20		
Q-1	875358	186950	850	60	0	0	109990	297850	34.03		
Jul-19	292673	62468	200	165	0	0	17360	80193	27.40		
Aug-19	244891	42409	660	80	0	0	32060	75209	30.71		
Sep-19	250000	60000	500	600	0	0	50000	111100	44.44		
Q-2	787564	164877	1360	845	0	0	99420	256502	33.84		
Oct-19	250000	50000	1500	800	65000	0	50000	167300	66.92		
Nov-19	250000	50000	1500	800	65000	0	50000	167300	66.92		
Dec-19	250000	50000	1500	800	65000	0	50000	167300	66.92		
Q-3	750000	150000	4500	2400	195000	0	150000	501900	66.92		
Jan-20	250000	55000	1500	1000	62000	0	50000	169500	67.80		
Feb-20	250000	55000	1500	1000	65000	0	50000	172500	69.00		
Mar-20	250000	60000	1500	1000	65000	0	50000	177500	71.00		
Q-4	750000	170000	4500	3000	192000	0	150000	519500	69.27		
TOTAL	3162922	671827	11210	6305	387000	0	509410	1585752	50.14		

Remarks/Support Required

- * NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station
- * Ash Utilization in Mine filling will be subject to allocation of Mines by coal companies and SPCB & DGMS clearances by concerned Authorities for taking up ash filling in Mine.
- * Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF& CC gazette notification.
- Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.
- * Enforcement of provisions of ash utilisation notification by PCB / district administration

ASH UTILIZATION PLAN 20-21										
NAME OF STATION : NTPC- Singrauli										
ANNUAL ASH Generation (Ton)		3021/000	Target ANNUAL AU (%)	100.00						
ANNUAL ASH UTILIZATION (Ton)		3021/000	BRICK/BLOCK Outside and NTPC (MT)	Roads/ Embankment* (MT)	Mine /Stone quarry filling (MT)	Others (Agriculture etc. (MT)	Total (MT)			
Month/ Area	Ash Generation	Low Lying area Development (MT)	CEMENT/ RMC/ Asbestos (in MT)	5000	90000	50000	5000	230000		
Apr-20	250000	55000	25000	5000	90000	50000	5000	230000		
May-20	250000	55000	25000	5000	90000	50000	5000	235000		
Jun-20	250000	55000	25000	5000	90000	50000	5000	235000		
Q-1	750000	165000	75000	15000	270000	160000	15000	700000		
Jul-20	230000	55000	25000	5000	90000	70000	5000	250000		
Aug-20	230000	55000	25000	5000	90000	70000	5000	250000		
Sep-20	230000	55000	25000	5000	90000	70000	5000	250000		
Q-2	690000	165000	75000	15000	270000	210000	15000	750000		
Oct-20	260000	55000	25000	5000	100000	70000	5000	260000		
Nov-20	270000	55000	25000	5000	100000	70000	5000	260000		
Dec-20	270000	55000	25000	5000	100000	70000	5000	260000		
Q-3	800000	165000	75000	15000	300000	210000	15000	780000		
Jan-21	260000	55000	25000	5000	95000	80000	5000	265000		
Feb-21	260000	55000	25000	5000	95000	80000	5000	265000		
Mar-21	260000	55000	25000	5000	90000	80000	5000	260000		
Q-4	780000	165000	75000	15000	280000	240000	15000	790000		
Total Ash Utilization (MT)	3020000	660000	300000	60000	1120000	820000	60000	3020000		

Remarks/Support Required

- * NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station
- * Ash Utilization in Mine filling will be subject to allocation of Mines/ Stone quarries by coal companies and SPCB & DGMS clearances by concerned Authorities for taking up ash filling in Mine.
- * Subject to low lying area development with in 300 kms radius from power plant by fly ash as per MoEF & CC gazette notification.
- * Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.
- * Enforcement of provisions of ash utilisation notification by PCB / district administration

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NAME OF STATION : NTPC RIHARD		ASH UTILIZATION PLAN 2019-20										Dated : 15.09.2019	
ANNUAL Ash Generation (Tonn)		3630729		ANNUAL Ash Utilization (%)		37.10%		60.74					
Month	Ash Generation (MT)	Low Lying Area Development (MT)	CEMENT/RMC/Asbestos (MT)	BRICK/BLOCK (MT)	Roads/Embankment (MT)	Mine filling (MT)	Fly ash used for Ash Dyke raising (MT)	Issue to Cement Industries through rail loading facility (MT)	Export (MT)	Others (Agriculture & others) (MT)	Total (MT)	% AU (Monthly/Quarterly)	
Apr-19	38477	129550	1810	18261	0	0	25100	0	0	0	173721	45.15	
May-19	305417	84700	2105	10556	0	0	12150	0	0	5000	114511	37.48	
Jun-19	284122	88158	1625	8611	0	0	0	0	0	5000	103594	36.46	
Q-1	974316	301408	5740	37428	0	0	37250	0	0	10000	391625	40.22	
Jul-19	296413	50000	2000	11000	0	0	0	0	0	5000	60500	20.41	
Aug-19	280000	50000	2000	11000	0	0	0	0	0	5000	68000	24.29	
Sep-19	280000	100000	2000	11000	0	0	0	0	0	10000	123000	43.93	
Q-2	856413	200000	4000	33000	0	0	0	0	0	10000	251500	29.357	
Oct-19	300000	120000	2000	25000	50000	0	0	0	0	10000	207000	69.00	
Nov-19	300000	120000	2000	25000	50000	0	25000	0	0	12000	234000	78.00	
Dec-19	300000	150000	2000	25000	50000	0	25000	5000	0	12000	269000	89.67	
Q-3	900000	390000	6000	75000	150000	0	50000	5000	0	34000	710000	78.88	
Jan-20	300000	150000	2000	25000	50000	0	30000	15000	0	12000	284000	94.67	
Feb-20	300000	150000	2000	25000	50000	0	30000	15000	0	12000	284000	94.67	
Mar-20	300000	150000	2000	25000	50000	0	30000	15000	0	12000	284000	94.67	
Q-4	900000	450000	6000	75000	150000	0	90000	45000	0	36000	852000	94.67	
TOTAL ASH UTILIZATION	3630729	1341408	23740	220428	300000	0	177250	50000	0	100000	2205326	60.74	

REMARKS: Support required

1. NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station & utilization of ash in road project
2. Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC gazette notification.
3. Subject to use of fly ash bricks/blocks/files by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.
4. Enforcement of provisions of ash utilisation notification by PCB / district administration

ASH UTILIZATION PLAN 2020-21											
NTPC - Rihand											
TOTAL ASH Generation (Ton)		3555000	Target AU %	100.00							
Month/ Area	ASH Generation	CEMENT/IRMC (MT)	BRICK/BLOCK (MT)	Roads/Embankment t (MT)	Mine filling	Others (Agriculture etc. (MT)	Total (MT)	Ash Utilization (%)			
Apr-20	325000	65000	50000	120000	30000	5000	330000	101.54			
May-20	325000	60000	50000	120000	30000	5000	325000	100.00			
Jun-20	325000	65000	50000	120000	30000	5000	330000	101.54			
Q-1	975000	190000	150000	360000	90000	15000	985000	101.03			
Jul-20	280000	50000	40000	90000	30000	5000	265000	94.64			
Aug-20	280000	50000	35000	90000	30000	5000	260000	92.86			
Sep-20	280000	50000	35000	90000	30000	5000	260000	92.86			
Q-2	840000	150000	110000	270000	90000	15000	785000	93.45			
Oct-20	290000	70000	30000	90000	50000	5000	295000	101.72			
Nov-20	290000	70000	30000	90000	50000	5000	295000	101.72			
Dec-20	290000	75000	30000	90000	50000	5000	300000	103.45			
Q-3	870000	215000	90000	270000	40000	15000	890000	102.30			
Jan-21	290000	75000	35000	100000	40000	5000	295000	101.72			
Feb-21	290000	75000	35000	95000	40000	5000	300000	103.45			
Mar-21	290000	75000	35000	100000	35000	5000	300000	103.45			
Q-4	870000	225000	105000	295000	115000	15000	895000	102.87			
TOTAL	3555000	780000	450000	1195000	295000	60000	3555000	100.00			

REMARKS : Support required

1. NTPC has approved format of MOU with NHAI . Ash Utilization in road project will be subject to signing of MOU by the Concerned FIU of NHAI with the station & utilization of ash in road project
2. Ash Utilization in Mine filling will be subject to allocation of Mines by coal companies and SPCB & DGMS clearances by concerned Authorities for taking up ash filling in Mine.
3. Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF& CC gazette notification.
4. Subject to use of fly ash bricks/blocks/files by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification. Enforcement of provisions of ash utilisation notification by PCB / district administration
- 5.

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ASH UTILIZATION PLAN 2019-20												
*all figures in MT												
Target ANNUAL AU (%)												
65.01												
NAME OF STATION - Koiba												
TOTAL ASH Generation (Ton)	5432522											
Month/Area	ASH Generation (MT)	Low Lying area Development (MT)	CEMENT/RMC (MT)	BRICK/BLOCK (MT)	AU in 18-19 Roads/Embankment (MT)	Mine filling (MT)	51.09%	Others (Agriculture & others) (MT)	Others (Bottom Ash cover) (MT)	Ash Dyke (Buttressing/ Height raising)	Total (MT)	% Ash Utilization
Apr-19	542136	5820	0	4368	0	19596		0	92331	230000	352215	64.97
May-19	444325	22692	0	3023	0	15283		0	74951	253600	387979	82.82
Jun-19	474472	22912	0	658	0	16624		0	79566	220000	339770	71.61
Q-1	1459833	51424	0	2059	0	51503		0	246978	703000	1059984	72.55
Jul-19	365763	0	0	752	0	10816		0	63051	182000	258629	70.16
Aug-19	347153	0	0	566	0	1776		0	68231	181000	251575	72.47
Sep-19	388653	20000	0	10000	0	21000		0	67730	80000	198730	51.13
Q-2	1101589	20000	0	11320	0	33592		0	199022	443600	708934	64.17
Oct-19	450000	24000	1000	25000	5000	50000		0	65000	80000	250000	55.56
Nov-19	480000	25000	1000	30000	7000	60000		1000	70000	80000	284000	58.17
Dec-19	480000	30000	2000	31000	7000	60000		1000	70000	80000	291000	60.63
Q-3	1410000	79000	4000	85000	19000	170000		2000	205000	260000	825000	58.51
Jan-20	480000	35000	2000	32000	7000	65000		1000	70000	94000	306000	63.75
Feb-20	490000	35000	2000	32000	7000	60000		1000	70000	110000	317000	64.69
Mar-20	490000	35000	2000	32000	7000	60000		1000	70000	110000	317000	64.69
Q-4	1460000	105000	6000	95000	21000	195000		3000	210000	314000	940000	64.38
TOTAL	5432522	255424	10000	201379	40000	440095		5000	580000	1720000	3231898	65.01
Remarques/support Required												

* NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station

* Ash Utilization in Mine filling will be subject to allocation of further Mines SECL and SPCB & DGMS clearances by concerned Authorities for taking up ash filling in Mine.

* Subject to use of ash in low lying area development with in 300 Kms radius from power plant by fly ash only as per MoEF & CC gazette notification

* Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

* Enforcement of provisions of ash utilisation notification by PCB / district administration

ASH UTILIZATION PLAN 2020-21											
NAME OF STATION - Korba		Target Annual AU (%)									
*all figures in MT											
Month/ Area	Low Lying area Development (MT)	CEMENT/IR C(MT)	BRICK/BLOC K (MT)	Roads/Embankment ¹ (MT)	Mine filling (MT) \downarrow	Others Agriculture & officers (MT)	Others (Bottom Ash cover) (MT)	Ash Dyke (Siltresing/ Height raising)	Total	% Ash Utilization	
TOTAL ASH GENERATION (MT)											
Apr-20	542136	1000	20000	0	150000	500	71500	150000	429500	79.22	
May-20	444325	1000	20000	0	150000	500	71500	150000	429500	96.66	
Jun-20	474472	1000	20000	0	150000	500	71500	150000	429500	90.52	
Q-1	1460833	3000	60000	0	450000	1500	214500	450000	1286500	88.20	
Jul-20	395783	1000	10000	0	130000	500	71500	100000	334500	91.45	
Aug-20	347163	1000	10000	0	130000	500	62500	150000	375500	106.17	
Sep-20	360053	1000	10000	0	130000	500	62500	150000	375500	96.62	
Q-2	1107589	3000	30000	0	390000	1500	196500	400000	1085500	98.54	
Oct-20	450000	1000	20000	0	210000	500	62500	150000	480500	106.78	
Nov-20	480000	1000	20000	0	210000	500	62500	150000	480500	100.10	
Dec-20	480000	1000	20000	0	210000	500	71000	150000	489000	101.68	
Q-3	1410000	3000	60000	0	630000	1500	196500	450000	1459000	102.34	
Jan-21	480000	1000	25000	30000	210000	500	71000	150000	534000	111.25	
Feb-21	490000	1000	20000	40000	210000	500	71000	150000	539000	110.00	
Mar-21	490000	1000	20000	40000	210000	500	71000	150000	539000	110.00	
Q-4	1450000	3000	60000	110000	630000	1500	213000	480000	1612000	110.41	
TOTAL ASH UTILIZATION	383000	12000	210000	110000	2100000	6000	620000	1780000	8456000	100.00	

Remarks/Support Required

- * NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PU of NHAI with the station
- * Ash Utilization in mine filling will be subject to allocation of further Mines SECL and SPCB & DGMS clearances by concerned Authorities for taking up ash filling in Mine.
- * Subject to use of ash in low lying area development with in 300 kms radius from power plant by fly ash only as per MoEF& CC gazette notification
- * Subject to use of fly ash bricks/tiles/files by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.
- * Subject to allotment and feasibility of ash utilization in abandoned mines.
- * Enforcement of provisions of ash utilization notification by PCB / district administration

S.N. 87

(87)

NAME OF STATION - Vin Yachal		ASH UTILIZATION PLAN 2019-20									
TOTAL ASH Generation (Ton)		Target ANNUAL AU (%)		51.19 AU in 18-19		32.12%					
Month/ Area	Ash Generation (MT)	Low Lying area Development (MT)	CEMENT/BRM C (MT)	BRICK/BLCK (MT)	Roads/ Embankment * (MT)	Mine filling (MT) *	Others (Agriculture & others) (MT)	Ash Dye Raising(MT)	Total (MT)	% AU	
Apr'19	708234	30000	19960	5760	0	0	8000	247800	311510	44.11	
May'19	718909	35000	2890	3610	0	0	10000	180000	231310	32.26	
Jun'19	802820	30000	1800	4790	0	0	10000	152910	199600	24.85	
Q-1	2225963	98000	24560	14050	0	0	28000	580710	742920	33.35	
Jul'19	806378	18000	440	4070	0	0	25000	125000	174410	21.66	
Aug'19	869546	4000	120	4810	0	0	10500	105870	125300	14.41	
Sep-19	725898	30000	5000	12000	0	4000	0	329220	380220	52.38	
Q-2	2409790	53000	5660	21780	0	4000	35500	560080	678930	26.92	
Oct-19	605000	60000						326294	386294	63.85	
Nov-19	605000	60000						213448	408448	67.51	
Dec-19	605000	60000	100000	50000	100000	80000		92630	482630	79.77	
Q-3	1815000	180000	100000	100000	100000	165000	0	632572	1277972	70.38	
Jan-20	620000	58000	100000	75000	110000	100000	5000	49348	496348	79.89	
Feb-20	589330	60000	100000	79000	120000	100000	5000	38816	502816	88.32	
Mar-20	578328	61000	100000	79000	130000	120000	5000	10325	506325	87.23	
Q-4	1789958	177000	300000	233000	360000	320000	15000	98489	1503489	85.01	
TOTAL ASH UTILIZATION	8210415	608000	430120	388830	460000	489000	78500	1871861	4201111	51.19	

Remarks/Support required

- * Subject to permission by SPCB & DGMS clearance by concerned authorities for taking up ash filling in Gadh Mine
- * NTPC has approved format of MOU with NHAI, Ash Utilization in road project will be subject to signing of MOU by the Conserved PU of NHAI with the station and use of ash in road project
- * Subject to low lying area development with in 180 Kms radius from power plant by fly ash as per MOEF & CC gazette notification and clearance by MPPCB.
- * Subject to use of fly ash bricks/blocks/tiles by all construction enterprises with in 300 KM radius of thermal power plant as per MOEF & CC Gazette Notification.
- * Enforcement of provisions of ash utilisation notification by PCB / district administration

NAME OF STATION - Vinayal hal		TOTAL ANNUAL AU (%)		100.06						
TOTAL ASH Generation (Ton)		7950900		100.06						
Monthly Area	Ash Generation (MT)	Low lying area Development (MT)	CEMENT/RMC (MT)	BRICK/KAL/DCK (Crackle and NTPC)	Road/Empankment (***MT)	Mine filling (MT)	Others (Agriculture & others) (MT)	ASH Dyke Raising (MT)	Total (MT)	% AU
Apr-20	635000	80000	95000	75000	125000	180000	5000	75000	635000	100.00
May-20	675000	80000	95000	75000	125000	240000	5000	75000	695000	102.95
Jun-20	675000	80000	95000	75000	125000	240000	5000	75000	695000	102.95
Q-1	1985000	240000	285000	225000	375000	680000	15000	225000	2025000	102.02
Jul-20	635000	80000	90000	65000	75000	180000	5000	75000	580000	81.34
Aug-20	685000	80000	90000	65000	98000	190000	5000	75000	600000	87.59
Sep-20	885000	80000	90000	65000	105000	190000	5000	75000	810000	89.05
Q-2	2095000	240000	270000	195000	275000	570000	15000	225000	1790000	89.28
Oct-20	635000	55000	130000	70000	165000	170000	5000	75000	710000	111.81
Nov-20	685000	90000	130000	70000	165000	180000	5000	75000	715000	104.38
Dec-20	655000	90000	130000	70000	145000	150000	5000	75000	655000	101.53
Q-3	1975000	275000	390000	210000	475000	500000	15000	225000	2090000	105.82
Jan-21	655000	95000	150000	50000	175000	130000	5000	75000	680000	103.82
Feb-21	675000	95000	150000	50000	170000	140000	5000	75000	685000	101.48
Mar-21	665000	95000	150000	50000	170000	140000	5000	75000	685000	104.58
Q-4	1985000	285000	450000	150000	515000	410000	15000	225000	2050000	103.27
TOTAL	7950900	1040000	1395000	780000	1640000	2140000	60000	900000	7950900	100.06

Remarks/Support required

- * Subject to permission by SP/CR & DGMS clearance by concerned authorities for taking up ash filling in Gorkh Mine
- * NTRC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PU of NHAI with the station & use of ash in road project
- * Subject to low lying area development with in 100 Kms radius from power plant by fly ash as per MoEF & CC gazette notification and clearance by AIRPCB
- * Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 Km radius of thermal power plant as per MoEF & CC Gazette Notification.
- * Enforcement of provisions of ash utilization notification by PCB / district administration

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ASH UTILIZATION PLAN 2020-21

NAME OF STATION - Sipat

Month/ Area	Ash Generation (MT)	Low Lying area Development (MT)	CEMENT/SMC	Target annual AU %	BRICK/BLOCK (MT)	Roads/embankment (MT)	100.00	Mine Filling (MT)	Others/Dyke raising, Agriculture & others (MT)	Total (MT)	% Ash Utilization
TOTAL ASH Generation (Ton)											
Apr-20	430000	40000	100000	50000	150000	150000	50000	60000	35000	425000	98.84
May-20	430000	40000	100000	50000	150000	150000	60000	60000	50000	450000	104.65
Jun-20	430000	40000	100000	50000	150000	150000	60000	60000	50000	450000	104.65
Q-1	1290000	120000	300000	150000	450000	450000	170000	170000	135000	1325000	102.71
Jul-20	390000	20000	60000	35000	120000	120000	70000	70000	20000	325000	83.33
Aug-20	390000	20000	60000	35000	120000	120000	70000	70000	20000	325000	83.33
Sep-20	410000	20000	60000	35000	120000	120000	70000	70000	20000	325000	79.27
Q-2	1190000	60000	180000	105000	360000	360000	210000	210000	60000	975000	81.93
Oct-20	390000	40000	90000	50000	150000	150000	80000	80000	40000	450000	115.38
Nov-20	390000	40000	90000	50000	150000	150000	80000	80000	40000	450000	115.38
Dec-20	410000	40000	90000	50000	150000	150000	80000	80000	40000	450000	109.76
Q-3	1190000	120000	270000	150000	450000	450000	240000	240000	120000	1350000	113.45
Jan-21	410000	50000	100000	50000	140000	140000	90000	90000	40000	470000	114.63
Feb-21	410000	50000	100000	50000	150000	150000	90000	90000	40000	390000	95.12
Mar-21	410000	50000	100000	50000	150000	150000	90000	90000	40000	390000	95.12
Q-4	1230000	150000	300000	150000	440000	440000	270000	270000	120000	1250000	101.63
TOTAL (MT)	4900000	450000	1050000	555000	1700000	1700000	890000	890000	435000	4900000	100.00

Remarks/Support required

- The following support is required in achieving the this AU plan
1. Allocation of low lying land for ash filling by district mining officer / Collector / SDM with in 300 Km radius of power plant.
 2. Allocation of total mines for backfilling / stowing and clearance from DGMS/SPCB/MoEF& CC etc.
 3. Subject to use pond ash in place of earth in the on-going road and upcoming projects, NTPC Sipat has gone a step ahead and is making pond ash available at their NHAI project site with bearing of ash transportation cost in line with MoEF&CC notification 25.01.2016.
 4. State PWD and PMSBY use pond ash in its roads/highways project. NTPC shall bear the cost of ash transportation as per MoEF&CC notification 25.01.2016.
 5. Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 Km radius of thermal power plant as per MoEF & CC Gazette Notification.
 6. Enforcement of provisions of ash utilisation notification by PCB / district administration.

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ASH UTILIZATION PIA V 2019-20
NAME OF STATION - Kahalgaon

Total Ash Generation (Tonn - 4150000)		Target annual AU % - 85										
Month/ Area	Asst Generation (MT)	Low Lying Area Development (MT)	CEMENT BLOCK (MT)	Own Brick Plant Fly ash	Own Brick Plant Bottom ash	Road/Fly Ash (MT)	BAVA to brick kiln/day	Dyke Raising	Streets/Highway	Others (Agriculture & others (MT))	Total (MT)	% Ash Utilization
Apr-20	340000	30000	75000	20000	3000	2000	30000	20000	40000	40000	200000	78.47
May-20	340000	30000	75000	20000	3000	2000	30000	20000	40000	40000	200000	78.47
Jun-20	340000	30000	75000	20000	3000	2000	30000	20000	40000	40000	200000	80.88
Q-1	1020000	90000	225000	60000	9000	6000	90000	60000	120000	120000	450000	77.94
Jul-20	350000	30000	75000	20000	3000	2000	30000	20000	40000	40000	200000	75.71
Aug-20	350000	30000	75000	20000	3000	2000	30000	20000	40000	40000	200000	72.22
Sep-20	360000	10000	90000	15000	3000	2000	30000	15000	20000	30000	255000	70.83
Q-2	1070000	70000	240000	55000	9000	6000	90000	60000	140000	140000	490000	72.99
Oct-20	340000	10000	90000	15000	3000	2000	70000	15000	20000	40000	285000	86.75
Nov-20	350000	10000	90000	15000	3000	2000	80000	15000	20000	40000	295000	87.14
Dec-20	350000	10000	90000	15000	3000	2000	80000	15000	20000	40000	295000	87.14
Q-3	1050000	10000	270000	45000	9000	6000	290000	15000	20000	120000	450000	92.98
Jan-21	340000	10000	90000	15000	3000	2000	100000	25000	20000	40000	290000	87.28
Feb-21	340000	10000	90000	15000	3000	2000	110000	25000	20000	40000	290000	87.28
Mar-21	340000	10000	90000	15000	3000	2000	120000	25000	20000	40000	290000	104.41
Q-4	1220000	30000	270000	45000	9000	6000	330000	75000	80000	120000	480000	100.80
TOTAL (MT)	4150000	220000	1000000	285000	30000	24000	750000	230000	400000	280000	3750000	95.00

Remarks/Support required

1. NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PWD of NHAI with the station and use of ash
2. Ash Utilization in Mine filling will be subject to allocation of Mines by coal companies and SPCB & DGMS clearances by concerned Authorities for taking up ash filling in Mine.
3. Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF& CC gazette notification.
4. Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 Km radius of thermal power plant as per MoEF & CC Gazette Notification.
5. Enforcement of provisions of ash utilization notification by PWA / district administration

ASH UTILIZATION PLAN 2020-21
NAME OF STATION - Kahaigaon

Total Ash Generation (Ton) - 4154000		Target annual AU % -100											
Month/ Area	Ash Generation (MT)	Low Lying area Development (MT)	CEMENT	BRICK/BLOCK (MT)	Own Brick Plant (Fly ash)	Chert Brick Plant (Bottom ash)	Roads/ Embankment (MT)	BAVA to brick industry	Dyke Raising	Buttressing	Others (Agriculture & others) (MT)	Total (MT)	% Ash Utilization
Apr-20	340000	2000	75000	15000	3000	2000	110000	10000	40000	50000	30000	337000	98.12
May-20	340000	2000	75000	15000	3000	2000	110000	10000	40000	50000	30000	337000	98.12
Jun-20	340000	2000	75000	15000	3000	2000	110000	10000	40000	50000	30000	337000	98.12
Q-1	1020000	6000	225000	45000	9000	6000	330000	30000	120000	150000	90000	1071000	95.11
Jul-20	354000	2000	70000	10000	3000	2000	110000	10000	40000	50000	30000	327000	92.37
Aug-20	360000	2000	70000	10000	3000	2000	110000	10000	40000	50000	30000	327000	91.83
Sep-20	360000	2000	70000	10000	3000	2000	110000	10000	40000	50000	30000	327000	91.35
Q-2	1080000	6000	210000	30000	9000	6000	330000	30000	120000	150000	90000	1071000	92.25
Oct-20	340000	2000	90000	10000	3000	2000	110000	10000	40000	50000	30000	347000	102.06
Nov-20	350000	2000	90000	10000	3000	2000	110000	10000	40000	50000	30000	347000	99.14
Dec-20	350000	2000	90000	10000	3000	2000	110000	10000	40000	50000	30000	347000	102.00
Q-3	1040000	6000	270000	30000	9000	6000	330000	30000	120000	150000	90000	1071000	101.95
Jan-21	340000	2000	80000	15000	3000	2000	110000	10000	40000	50000	30000	362000	106.47
Feb-21	340000	2000	80000	15000	3000	2000	110000	10000	40000	50000	30000	362000	106.47
Mar-21	340000	2000	80000	15000	3000	2000	110000	10000	40000	50000	30000	362000	106.47
Q-4	1020000	6000	270000	45000	9000	6000	330000	30000	120000	150000	90000	1071000	105.95
TOTAL	4154000	24000	1001000	150000	36000	24000	1320000	120000	480000	640000	360000	4154000	100.00

Remarks /Support Required

1. NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station & use ash
2. Ash Utilization in Mine filling will be subject to allocation of Mines by coal companies and SPCB & DGMS clearances by concerned Authorities for taking up ash filling in Mine.
3. Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC Gazette notification.
4. Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.
5. Enforcement of provisions of ash utilization notification by PCB / district administration



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NAME OF STATION : NTPC Bath		ASH UTILIZATION PLAN 2019-20						
ANNUAL ASH Generation (Ton)		ANNUAL ASH UTILIZATION (Ton)		ANNUAL ASH UTILIZATION (%)	AU in 18-19	60.07%		
Month/Area	Ash Generation (Ton)	Low Lying area Development (MT)	CEMENT/RM C/Asbestos(In MT)	BRICK/BLOC K (MT)	Roads/Emban kment (MT)	Others/Agricultu re & others (MT)	Total (MT)	Monthly % Ash Utilization
Apr-19	171000	0	32000	20000	100000	5000	157000	91.81
May-19	190000	0	32000	20000	80000	5000	137000	72.11
Jun-19	200000	0	32000	20000	80000	5000	137000	68.50
Q-1	561000	0	96000	60000	260000	15000	431000	76.83
Jul-19	200000	10000	35000	12000	80000	5000	142000	71.00
Aug-19	200000	10000	35000	12000	80000	5000	142000	71.00
Sep-19	200000	10000	35000	12000	80000	5000	142000	71.00
Q-2	600000	30000	105000	36000	240000	15000	426000	71.00
Oct-19	210000	15000	40000	20000	80000	5000	160000	76.19
Nov-19	210000	15000	42000	20000	80000	5000	162000	77.14
Dec-19	210000	15000	45000	20000	90000	5000	175000	83.33
Q-3	630000	45000	127000	60000	250000	15000	497000	78.89
Jan-20	210000	15000	45000	15000	90000	5000	170000	80.95
Feb-20	210000	15000	45000	18000	90000	5000	173000	82.38
Mar-20	210000	15000	45000	20000	90000	5000	175000	83.33
Q-4	630000	45000	135000	53000	270000	15000	518000	82.22
TOTAL ASH UTILIZATION (In Ton)	2421000	120000	463000	209000	1020000	60000	1872000	77.32

* NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PIU of NHAI with the station.

Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC gazette notification.

Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

NAME OF STATION : NTPC Bath		ASH UTILIZATION PLAN 2020-21						
Month/ Area	Ash Generation (Ton)	Low Lying area Development (MT)	CEMENT/RMC/Asbestos (In MT)	BRICK/BLOCK (MT)	Roads/Embankment (MT)	Others/Agriculture & others (MT)	Total (MT)	Monthly % Ash Utilization
ANNUAL Ash Generation (Ton)		2413000		ANNUAL Ash UTILIZATION (%)	100.08	AU in 18-19	50.07%	
ANNUAL Ash UTILIZATION (Ton)		2413000						
Apr-20	191000	20000	45000	20000	100000	5000	190000	99.48
May-20	190000	20000	45000	20000	100000	5000	190000	100.00
Jun-20	200000	20000	45000	20000	120000	5000	210000	105.00
Q-1	561000	60000	135000	60000	320000	15000	590000	101.55
Jul-20	190000	20000	40000	15000	90000	5000	170000	89.47
Aug-20	190000	20000	40000	15000	80000	5000	160000	84.21
Sep-20	190000	20000	40000	15000	90000	5000	170000	89.47
Q-2	570000	60000	120000	45000	260000	15000	500000	87.72
Oct-20	210000	25000	60000	20000	110000	5000	220000	104.76
Nov-20	210000	25000	60000	20000	110000	5000	220000	104.76
Dec-20	210000	25000	60000	20000	115000	5000	225000	107.14
Q-3	630000	75000	180000	80000	335000	15000	665000	105.56
Jan-21	210000	25000	65000	15000	110000	5000	220000	104.76
Feb-21	210000	25000	60000	18000	110000	5000	218000	103.81
Mar-21	210000	25000	60000	20000	110000	5000	220000	104.76
Q-4	630000	75000	185000	55000	330000	15000	655000	104.44
TOTAL Ash UTILIZATION (In Ton)	2411000	270000	620000	218000	1245000	60000	2413000	100.08

* NTPC has approved format of MOU with NHAI. Ash Utilization in road project will be subject to signing of MOU by the Concerned PILU of NHAI with the station.

Subject to low lying area development with in 300 kms radius from power plant by fly ash as per MoEF & CC gazette notification.

Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

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ASH UTILIZATION PLAN 2019-20

NAME OF STATION - Talcher-Kanika	Proposed Revised Target Annual AU (%)										AU in 18-19	% Ash Utilization
	Total Ash Generation (Ton)											
	63.063	7403109										
Month/ Area	Ash Generation (MT)	Low Lying area Development (MT)	CEMENT/ RMC (MT)	BRICK /BLOCK (MT)	Roads/Embankment**(MT)			Mine filling *(MT)	Others (Agriculture, Asbestos & others) (MT)	Total AU Plan (MT)		
					Roads (NHAI)	Ash Dyke Embankment Raising / Bulldozing	Total of Roads & Ash Dyke Embankment					
Apr-19	678164	10000	0	7854	97758	306000	402758	0	3259	423891	63%	
May-19	757326	0	0	9506	83012	328384	411396	0	2859	423761	56%	
Jun-19	575260	0	0	7475	38020	257830	293850	0	1885	303210	53%	
Q-1	2010750	10000	0	24845	216790	891214	1108004	0	8003	1150852	57%	
Jul-19	584383	0	0	6238	21759	221330	243080	0	2136	251454	45%	
Aug-19	412976	0	0	5990	25708	216560	242268	0	1281	249639	60%	
Sep-19	605000	0	0	6500	50000	220000	270000	0	2300	278800	46%	
Q-2	1572359	0	0	18728	97486	667890	755348	0	5717	779793	50%	
Oct-19	655000	10000	0	8000	75000	280000	355000	0	2500	375500	57%	
Nov-19	605000	22000	0	8000	80000	300000	380000	0	2500	412500	68%	
Dec-19	605000	24000	0	10000	90000	300000	390000	16500	2500	443000	73%	
Q-3	1665000	58000	0	26000	245000	880000	1125000	16500	7500	1231000	69%	
Jan-20	655000	31000	5000	10000	190000	310000	410000	90000	2500	548500	84%	
Feb-20	645000	33000	5000	10000	190000	310000	410000	90000	2500	550500	85%	
Mar-20	655000	35000	5000	10000	190000	310000	413000	90000	2500	555500	85%	
Q-4	1955000	99000	15000	30000	303000	980000	1233000	270000	7500	1654500	85%	
TOTAL	7403109	165000	15000	99573	892248	3359104	4221352	286500	28720	4816145	65%	
Remarks/Support required												

* Subject to start of disposal of Ash in Jagannathi Mines from Dec'19

** Subject to release of fronts and also acceptance by NHAI in operating the already signed MoUs in line with its stipulations

* Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC gazette notification.

* Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

* Enforcement of provisions of ash utilisation notification by PCB / district administration

ASH UTILIZATION PLAN 2020-21

NAME OF STATION Tatohar-Kanha	Ash Generation (MT)	Low Lying area Development (MT)	CEMENT / RMC (MT)	BRICK / BLOCK (MT)	Roads/Embankment ** (MT)			Total Ash Generation (Ton)	Proposed Annual AU (%)	7313109	Others (Agriculture, Asbestos & others) (MT)	Total AU Plan (MT)	% Ash Utilization
					Roads (NHAI)	Ash Dyke Embankment Raising / Buttressing	Total of Roads & Ash Dyke Embankment						
Apr-20	678164	10000	4000	4000	125000	3,10,000	435000	90000	2500	545500	80%		
May-20	757326	10000	6000	6000	160000	310000	470000	90000	2500	584500	77%		
Jun-20	575260	8000	8000	8000	200000	250000	450000	90000	2500	566500	98%		
Q-1	2010750	28000	18000	18000	485000	870000	1355000	270000	7500	1696500	84%		
Jul-20	554383	7000	7000	7000	175000	220000	395000	90000	2500	508500	92%		
Aug-20	412976	6000	7000	7000	160000	2,20,000	380000	90000	2500	492500	119%		
Sep-20	605000	7000	7000	10000	175000	2,20,000	395000	90000	2500	511500	85%		
Q-2	1572358	20000	21000	24000	510000	680000	1170000	270000	7500	1512500	96%		
Oct-20	655000	10000	9000	20000	250000	2,80,000	530000	90000	2500	661500	101%		
Nov-20	605000	12000	10000	10000	250000	3,00,000	550000	90000	2500	674500	111%		
Dec-20	605000	15000	10000	10000	250000	3,00,000	550000	90000	2500	677500	112%		
Q-3	1865000	37000	29000	40000	750000	880000	1630000	270000	7500	2013500	108%		
Jan-21	655000	20000	10000	10000	254000	3,10,000	564000	90000	2500	696500	106%		
Feb-21	605000	20000	10000	10000	251000	3,10,000	561000	90000	2500	693500	115%		
Mar-21	605000	25000	12000	12000	249109	3,10,000	559109	90000	2500	700609	116%		
Q-4	1865000	65000	32000	32000	754109	930000	1684109	270000	7500	2090609	112%		
TOTAL	7313109	150000	100000	114000	2499109	3340000	5839109	1060000	30000	7313109	100%		

Remarks/Support Required

- * Subject to disposal of Ash in Jagannath Mines from Dec-19
- ** Subject to release of fronts and also acceptance by NHAI in operating the already signed MoUs in line with its stipulations
- * Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC Gazette notification.
- * Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.
- * Enforcement of provisions of ash utilisation notification by PCB / district administration

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AU in 2018-19		30.70%		ASH UTILIZATION PLAN 2019-20			All ash figures in MT	
NAME OF STATION : NTPC Bongaigaon				Target ANNUAL AU (%)				
TOTAL ASH Generation (MT)				741000		74.49		
Month/ Area	Ash Generation (MT)	Low Lying area Development (MT)	CEMENT/ RMC etc (MT)	BRICK/BLOCK (MT)	Roads/urban kment (MT)	Others/Agriculture & others (MT)	Total (MT)	% AU
Apr-19	57000	0	25000	5000	0	5000	35000	61.40
May-19	57000	0	25000	5000	0	5000	35000	61.40
Jun-19	57000	0	25000	5000	0	5000	35000	61.40
Q-1	171000	0	75000	15000	0	15000	105000	61.40
Jul-19	55000	0	25000	5000	0	5000	35000	63.64
Aug-19	55000	0	30000	5000	0	5000	40000	72.73
19-Sep	55000	0	30000	5000	0	5000	40000	72.73
Q-2	165000	0	85000	15000	0	15000	115000	69.70
Oct-19	50000	0	35000	5000	0	5000	45000	90.00
19-Nov	65000	0	42000	5000	0	5000	52000	80.00
Dec-19	65000	0	42000	5000	0	5000	52000	80.00
Q-3	180000	0	119000	15000	0	15000	149000	82.78
Jan-20	75000	10000	40000	5000	0	5000	60000	80.00
Feb-20	75000	10000	40000	5000	0	5000	60000	80.00
Mar-20	75000	10000	40000	8000	0	5000	63000	84.00
Q-4	225000	30000	120000	18000	0	15000	183000	81.33
TOTAL	741000	30000	399000	63000	0	60000	552000	74.49

Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC gazette notification.

*Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification

AU in 2018-19	30.70%	ASH UTILIZATION PLAN 2020-21					All ash figures in MT	
NAME OF STATION :NTPC Bongaigaon		TOTAL ASH Generation (MT)		801000	Target ANNUAL AU (%)	100.00	Total (MT)	% AU
Month/ Area	Ash Generation (MT)	Low lying area Development (MT)	CEMENT/ RMC etc.(MT)	BRICK/BLOCK (MT)	Roads/embankment (MT)	Others/Agriculture & others (MT)	Total (MT)	% AU
Apr-20	67000	0	55000	8000	0	5000	68000	101.49
May-20	67000	0	55000	8000	0	5000	68000	101.49
Jun-20	67000	0	55000	8000	0	5000	68000	101.49
Q-1	201000	0	165000	24000	0	15000	204000	101.49
Jul-20	60000	0	50000	2000	0	5000	57000	95.00
Aug-20	65000	0	50000	5000	0	5000	60000	92.31
01-Sep	55000	0	48000	5000	0	5000	58000	105.45
Q-2	180000	0	148000	12000	0	15000	175000	97.22
Oct-20	65000	8000	48000	5000	0	5000	66000	101.54
01-Nov	65000	8000	47000	5000	0	5000	65000	100.00
Dec-20	65000	8000	48000	5000	0	5000	66000	101.54
Q-3	195000	24000	143000	15000	0	15000	197000	101.03
Jan-21	75000	10000	50000	10000	0	5000	75000	100.00
Feb-21	75000	10000	50000	10000	0	5000	75000	100.00
Mar-21	75000	10000	50000	10000	0	5000	75000	100.00
Q-4	225000	30000	150000	30000	0	15000	225000	100.00
TOTAL	801000	54000	606000	81000	0	60000	801000	100.00

Subject to low lying area development with in 300 Kms radius from power plant by fly ash as per MoEF & CC gazette notification.

*Subject to use of fly ash bricks/blocks/tiles by all construction agencies with in 300 KM radius of thermal power plant as per MoEF & CC Gazette Notification.

S.N.94

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Fly Ash Utilization Status

Period	Fly Ash Generation (MT)	Bottom Ash Generation (MT)	Ash Utilisation (MT)
Year 2018-19	8,87,448	1,45,329	7,78,024
Year 2017-18	10,00,096	2,49,907	3,08,472

Fly Ash Utilization Action Plan for 2 years

S.N.	Description	Unit	2019-20 Q1	2019-20 Q2	2019-20 Q3	2019-20 Q4	Total Fly Ash Utilisation in FY 2019-20
	Total Ash Utilisation	MT	1,76,743	1,23,282	2,27,806	3,16,448	8,44,279
	Ash Utilisation percentage	%	51%	72%	77%	81%	70%
S.N.	Description	Unit	2020-21 Q1	2020-21 Q2	2020-21 Q3	2020-21 Q4	Total Fly Ash Utilisation in FY 2020-21
	Total Ash Utilisation	MT	3,05,682	2,63,493	3,03,625	3,29,333	12,02,133
C	Ash Utilisation percentage	%	85%	85%	85%	85%	85%

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S.N. 95

Revised Action Plan

Format for Ash Utilisation Action Plan [SASAN POWER LTD.]

1. Name of the Unit: Sasan Ultra Mega Power Project
2. Power Generation Capacity: 3960 MW (6x660MW)
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Years	Fly Ash Generation	Fly Ash Utilization*
2017-18	Fly Ash : 4120376 Bottom Ash : 1030097 Total Ash : 5150473	1221310
2018-19	Fly Ash : 4022186 Bottom Ash : 1005547 Total Ash : 5027733	1491694

* Dry Ash utilization; Bottom ash disposed off in ash-pond in slurry mode

4. Fly Ash Utilisation Action Plan (quarter wise) *:

A. Action Plan for FY 2019-20**:

S.N	Description	Unit	Q1 (Actual)	Q2 (Estimated)	Q3 (Estimated)	Q4 (Estimated)	Total Fly Ash Utilisation in FY 2019-20 (Estimated)
A	Ash Generation (Fly Ash + Bed Ash)	MT	FA: 1128406 Bottom Ash: 282102 Total Ash: 1410508	FA: 1095000 Bottom Ash: 273750 Total Ash: 1368750	FA: 1095000 Bottom Ash: 273750 Total Ash: 1368750	FA: 1095000 Bottom Ash: 273750 Total Ash: 1368750	FA: 4413406 BA: 1103352 Total Ash: 5516758
B	Fly Ash Utilisation	MT	723735	664650	857850	857850	3104085
i)	Brick Manufacturing	MT	331	250	350	350	1281
ii)	Ready Mix Concrete	MT	201	200	250	250	901
iii)	Low Lying area filling/ Area Development	MT	691043	657000	821250	821250	2990543
iv)	Road Construction	MT	00	00	00	00	00
v)	Filling of abandoned stone quarry	MT	00	00	00	00	00



vi)	Mines void filling	MT	00	00	00	00	00	00
vii)	Agriculture Utilisation	MT	00	00	00	00	00	00
viii)	If any other area (specify) Cement	MT	32160	7200	36000	36000	111360	3104085
	Total Fly Ash Utilisation	MT	723735	664650	857850	857850	78.3	70.33
C	Fly Ash Utilisation percentage	%	64.73	60.70	78.3	78.3		

*Dry Ash utilization; Bottom ash disposed off in ash-pond in slurry mode

B. Action Plan for FY 2020-21^{est}:

S.N	Description	Unit	Q1 (Estimated)	Q2 (Estimated)	Q3 (Estimated)	Q4 (Estimated)	Total Fly Ash Utilisation in FY 2020-21 (Estimated) ¹
A	Ash Generation (Fly Ash + Bed Ash)	MT	FA: 1095000 Bottom Ash: 273750 Total Ash: 1368750	FA: 4380000 BA: 1095000 Total Ash: 5475000			
B	Fly Ash Utilisation	MT	1095000	1095000	1095000	1095000	4380000
i)	Brick Manufacturing	MT	1750	1750	1750	1750	7000
ii)	Ready Mix Concrete	MT	2000	2000	2000	2000	8000
iii)	Low Lying area filling/ Area Development	MT	821250	821250	821250	821250	3285000
iv)	Road Construction	MT	90000	90000	90000	90000	360000
v)	Filling of abandoned stone quarry	MT	00	00	00	00	00
vi)	Mines void filling	MT	00	00	00	00	00
vii)	Agriculture Utilisation	MT	00	00	00	00	00
viii)	If any other area (specify) Cement	MT	180000	180000	180000	180000	720000
	Total Fly Ash Utilisation	MT	1095000	1095000	1095000	1095000	4380000
C	Fly Ash Utilisation percentage	%	100	100	100	100	100

¹ Dry Ash utilization; Bottom ash disposed off in ash-pond in slurry mode



Format for Ash Utilisation Action Plan

S.N. 96

98

1. Name of the Unit : Mettur Thermal Power Station - I
2. Power Generation Capacity: 4 X 210 MW
3. Fly ash Generation and Utilisation in previous two years (2017-18 and 2018-19)

Period	Total Ash Generation in MT	Total Utilisation in MT	% of Utilisation
2017-18	11,11,142.900	6,24,025.920	56.16
2018-19	11,46,975.853	9,37,312.470	81.72

4. Fly ash Utilisation Action Plan (quarter wise)

S. No	Description	Unit	Q1	Q2	Q3	Q4	Total fly ash utilisation in Fy 2019-2020
A	Ash Generation (Fly Ash + Bed Ash)	MT	2,69,676.512	270000	270000	270000	10,79,676.512
B	Ash Utilisation	MT					
i)	Brick manufacturing	MT	70,921.220	1,08,150	1,08,150	1,08,150	3,95,371.220
ii)	Ready mix concrete	MT					
iii)	Low lying Area filling / Area development	MT					
iv)	Road Construction	MT					
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	If any other area i) Cement Company ii) Allottees through e-auction	MT	1,69,937.920	339750	339750	339750	11,89,187.920
	Total Ash Utilisation	MT	2,40,859.140	4,47,900	4,47,900	4,47,900	15,84,559.140
C	Ash Utilisation Percentage	%	89.31	165.8	165.8	165.8	146.8

Name of the Authorized Person: P.RAMACHANDRAN, EE/ O&AHS/ MTPS-I.

Signature:

E-mail id: eeohmtps@tnebnnet.org

Phone No: 9445856773.

Format for Ash Utilisation Action Plan

- 1 Name of the Unit: North Chennai Thermal Power Station -1
- 2 Power Generation Capacity: 3x210 MW, 630 MW
- 3 Fly ash generation and utilisation in previous two years (2017-18 and 2018-19)
- 4 Fly ash Utilisation Action Plan (quarter wise)*:

S.No.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2017-18
A	Ash Generation (Fly Ash + Bed Ash)	MT	289325	295960	270388	285504	1141177
B	Ash Utilisation	MT					53819
i)	Brick Manufacturing (SSI)	MT	14999	14163	13161	11496	118519
ii)	Ready Mix Concrete (Cement product)	MT	27533	58739	13164	19083	166872
iii)	Low Lying area filling/ Area Development (Wet)	MT	120022	21760	0	25090	0
iv)	Road Construction	MT					0
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify) (Cement Companies)	MT	0	0	47466	66657	114123
	Total Ash Utilisation	MT	162554	94662	73791	122326	453333
C	Ash Utilisation precentage	%	56.18%	31.98%	27.29%	42.85%	39.73%

Name of the Authorised Person: M. CHITRA, Chief Engineer/NCTPS-I

Signature:..Sd/--(16.07.2019)

E-mail ID:cenctps@tnebn.net.org

Phone No.:044-27950051 & 9445856633

***Note:**

TPPs having fly ash utilisation less than 85% will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100% fly ash utilisation.

99

Format for Ash Utilisation Action Plan

- 1 Name of the Unit: North Chennai Thermal Power Station -1
- 2 Power Generation Capacity: 3x210 MW, 630 MW
- 3 Fly ash generation and utilisation in previous two years (2017-18 and 2018-19)
- 4 Fly ash Utilisation Action Plan (quarter wise)*:

S.No.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2018-19
A	Ash Generation (Fly Ash + Bed Ash)	MT	318014	257077	254738	187034	1016863
B	Ash Utilisation	MT					50228
i)	Brick Manufacturing (SSI)	MT	9393	14878	12960	12997	82326
ii)	Ready Mix Concrete (Cement product)	MT	14119	22133	17841	28233	352966
iii)	Low Lying area filling/ Area Development (Wet)	MT	32448	121976	75296	123246	0
iv)	Road Construction	MT					0
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	If any other area (specify) (Cement Companies)	MT	71940	45439	42824	27033	187236
	Total Ash Utilisation	MT	127900	204426	148921	191509	672756
C	Ash Utilisation percentage	%	40.22%	79.52%	58.46%	102.39%	66.16%

Name of the Authorised Person: M. CHITRA, Chief Engineer/NCTPS-I

Signature:.. Sd/--(16.07.2019)

E-mail ID:cenctps@tnebnnet.org

Phone No.:044-27950051 & 9445856633

***Note:**

TPPs having fly ash utilisation less than 85% will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100% fly ash utilisation.

Format for Ash Utilisation Action Plan

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- 1 Name of the Unit: North Chennai Thermal Power Station -1
- 2 Power Generation Capacity: 3x210 MW, 630 MW
- 3 Fly ash generation and utilisation in previous two years (2017-18 and 2018-19)
- 4 Fly ash Utilisation Action Plan (quarter wise)*:

S.No.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	211442				211442
B	Ash Utilisation	MT					11826
i)	Brick Manufacturing (SSI)	MT	11826				23099
ii)	Ready Mix Concrete (Cement product)	MT	23099				108134
iii)	Low Lying area filling/ Area Development (Wet)	MT	108134				
iv)	Road Costruction	MT					
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	If any other area (specify) (Cement Companies)	MT	61313				61313
	Total Ash Utilisation	MT	204372				204372
C	Ash Utilisation precentage	%	96.66%				96.66%

Name of the Authorised Person: M. CHITRA, Chief Engineer/NCTPS-I

Signature:.. Sd/-(16.07.2019)

E-mail ID:cenctps@tnebnnet.org

Phone No.:044-27950051 & 9445856633

***Note:**

TPPs having fly ash utilisation less than 85% will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100% fly ash utilisation.

S.N. 98



Format for Ash Utilisation Action Plan

1. Name of the Unit: North Chennai Thermal Power station-II, Chennai-120
2. Power Generation Capacity: 2x600 MW
3. Fly ash generation and utilisation for the year 2017-18.
4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 17-18
A	Ash Generation (Fly Ash + Bed Ash)	MT	450707	351214	397440	391336	1590697
B	Ash Utilisation	MT	121001	140376	164883	211962	638222
i)	Brick Manufacturing	MT	50009	52539	76306	77387	256241
ii)	Ready Mix Concrete	MT	Nil	Nil	Nil	Nil	Nil
iii)	Low Lying area filling/ Area Development	MT	4828	6026	0	2530	13384
iv)	Road Construction	MT	Nil	Nil	Nil	Nil	Nil
v)	Filling of abandoned stone quarry	MT	Nil	Nil	Nil	Nil	Nil
vi)	Mines void filling	MT	Nil	Nil	Nil	Nil	Nil
vii)	Agriculture Utilisation	MT	Nil	Nil	Nil	Nil	Nil
viii)	If any other area (Major Cement Companies & Traders Through E-Auction)	MT	66164	81811	88577	132045	368597
	Total Ash Utilisation	MT	121001	140376	164883	211962	638222
C	Ash Utilisation percentage Average)	%	26.84%	39.96%	41.48%	54.16%	40.12%

Name of the Authorised Person: Er.K.Muthukrishnan., EE/AHP/NCTPS II (At Present)

Signature: -Sd/--(16.09.2019)

E-mail id : eeahpnctps2@tnebnnet.org

Phone no. : 9445858539

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

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1. Name of the Unit: North Chennai Thermal Power station-II, Chennai-120
2. Power Generation Capacity: 2x600 MW
3. Fly ash generation and utilisation for the year 2018-19 :
4. Fly Ash Utilisation Action Plan(quarter wise)*:
- 5.

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2018-19
A	Ash Generation (Fly Ash + Bed Ash)	MT	499112	383550	488196	417180	1788038
B	Ash Utilisation	MT	267602	256332	232159	382869	1138962
i)	Brick Manufacturing	MT	68021	66163	79422	74957	288563
ii)	Ready Mix Concrete	MT	Nil	Nil	Nil	Nil	Nil
iii)	Low Lying area filling/ Area Development	MT	Nil	Nil	Nil	66200	66200
iv)	Road Construction	MT	Nil	Nil	Nil	Nil	Nil
v)	Filling of abandoned stone quarry	MT	Nil	Nil	Nil	Nil	Nil
vi)	Mines void filling	MT	Nil	Nil	Nil	Nil	Nil
vii)	Agriculture Utilisation	MT	Nil	Nil	Nil	Nil	Nil
viii)	If any other area (Major Cement Companies & Traders Through E-Auction)	MT	199581	190169	152737	241712	784199
	Total Ash Utilisation	MT	267602	256332	232159	382869	1138962
C	Ash Utilisation percentage Average)	%	53.61%	66.83%	47.55%	91.77%	63.69%

Name of the Authorised Person: Er.K.Muthukrishnan., EE/AHP/NCTPS II (At Present)

Signature: -Sd/--(16.09.2019)

E-mail id : eeahpnctps2@tnebnet.org

Phone no. : 9445858539

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

1. Name of the Unit: North Chennai Thermal Power station-II, Chennai-120
2. Power Generation Capacity: 2x600 MW
3. Fly ash generation and utilisation for the year 2019-20 :
4. Fly Ash Utilisation Action Plan(quarter wise)*:

S.N	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	352343				352343
B	Ash Utilisation	MT	347855				347855
i)	Brick Manufacturing	MT	58502				58502
ii)	Ready Mix Concrete	MT	Nil				Nil
iii)	Low Lying area filling/ Area Development	MT	68306				68306
iv)	Road Construction	MT	Nil				Nil
v)	Filling of abandoned stone quarry	MT	Nil				Nil
vi)	Mines void filling	MT	Nil				Nil
vii)	Agriculture Utilisation	MT	Nil				Nil
viii)	If any other area (Major Cement Companies & Traders Through E-Auction)	MT	221047				221047
	Total Ash Utilisation	MT	347855				347855
C	Ash Utilisation percentage Average)	%	98.72%				98.72%

Name of the Authorised Person: Er.K.Muthukrishnan., EE/AHP/NCTPS II (At Present)

Signature: -Sd/--(16.09.2019)

E-mail id : eeahpnctps2@tnebnnet.org

Phone no. : 9445858539

***Note :**

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

S.N. 102

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Format for Ash Utilisation Action Plan

1. Name of the Unit Essar Power MP Limited
2. Power Generation Capacity: 2 X 600 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Financial Year	Ash Generation (MT)	Ash Utilization (MT)	Ash Utilization (%)
FY 2017-18	632587	387002	61.2%
FY 2018-19	562851	486406	86.4%

4. Fly Ash Utilisation Action Plan (quarter wise)*:

S.N.	Description	Unit	Q1	Q2 [#]	Q3 [#]	Q4 [#]	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	231497	217346	321140	320491	1090474
B	Ash Utilisation						
i)	Brick Manufacturing	MT	1120	2000	3000	3000	9120
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT					
iv)	Road Construction	MT	1425	2000	5000	5000	13425
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	Cement Industries	MT	156640	180000	180000	180000	696640
ix)	Ash dyke construction	MT	35000	10000	75000	75000	195000
	Total Ash Utilisation	MT	194185	194000	263000	263000	914185
C	Ash Utilisation percentage	%	83.88%	89.26%	81.90%	82.06%	83.83%

Projection for FY 19-20 Q2, Q3 Q4 as per expected coal consumption.

Name of the Authorised Person : J S Saran

Signature: 

E-mail id : jay.saran@essarpower.co.in

Phone no. : 8959593568

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

1. Name of the Unit: **Essar Power MP Limited**
2. Power Generation Capacity: **2 X 600 MW**
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

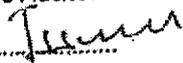
Financial Year	Ash Generation (MT)	Ash Utilization (MT)	Ash Utilization (%)
FY 2017-18	632587	387002	61.2%
FY 2018-19	562851	486406	86.4%

4. Fly Ash Utilisation Action Plan for FY 20-21 (quarter wise)*:

S.N.	Description	Unit	Q1*	Q2*	Q3*	Q4*	Total Fly Ash Utilisation In FY 2020-21
A	Ash Generation (Fly Ash + Bed Ash)	MT	260049	262907	262907	257191	1043053
B	Ash Utilisation						
i)	Brick Manufacturing	MT	3000	3000	3000	3000	12000
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT					
iv)	Road Construction	MT	6049	8907	8907	8191	32053
v)	Filling of abandoned stone quarry	MT					
vi)	Mines void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	Cement , Industries	MT	216000	216000	216000	216000	864000
ix)	Ash dyke construction	MT	35000	35000	35000	30000	135000
	Total Ash Utilisation	MT	260049	262907	262907	257191	1043053
C	Ash Utilisation percentage	%	100.0%	100.0%	100.0%	100.0%	100.0%

* Projection for FY 20-21 Q1, Q2, Q3 Q4 as per expected coal consumption.

Name of the Authorised Person : J S Saran

Signature: 

E-mail id : jay.saran@essarpower.co.in

Phone no. : 8959593568

*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

1. Name of the Unit: **Essar Power MP Limited**

2. Power Generation Capacity: **2 X 600 MW**

3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

Financial Year	Ash Generation (MT)	Ash Utilization (MT)	Ash Utilization (%)
FY 2017-18	632587	387002	61.2%
FY 2018-19	562851	486405	86.4%

4. Fly Ash Utilisation Action Plan (quarter wise):

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilization in FY 2019-20
A	Ash Generation (Fly Ash + Red Ash)	MT	231497	217346	321140	320491	1090474
B	Ash Utilisation						
i)	Brick Manufacturing	MT	1120	2000	3000	3000	9120
ii)	Ready Mix Concrete	MT					
iii)	Low Lying area filling/ Area Development	MT					
iv)	Road Construction	MT	1425	2000	5000	5000	13425
v)	Filling of abandoned stone quarry	MT					
vi)	Mimes void filling	MT					
vii)	Agriculture Utilisation	MT					
viii)	Cement Industries	MT	156640	180000	180000	180000	696640
ix)	Ash dyke construction	MT	35000	10000	75000	75000	195000
	Total Ash Utilisation	MT	194185	194080	263008	263000	914185
C	Ash Utilisation Percentage	%	83.88%	89.26%	81.90%	82.08%	83.83%

Projection for FY 19-20 Q2, Q3, Q4 as per expected coal consumption.

Name of the Authorised Person: J S Saran

Signature: 

E-mail id: jay.saran@essarpower.co.in

Phone no.: 8959593568

*Note:

TRPs having fly ash utilisation less than 65% will be given two years time period and TRPs having utilisation more than 65% will be given one year time period to achieve 100% fly ash utilisation.

(17) **S.N.103** (105)

Format for Ash Utilisation Action Plan

1. Name of the Unit: Vedanta Limited, Jharsuguda, 2400 MW TPP
2. Power Generation Capacity: 2400 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19): Annexure-1 & 2
4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	843939	764212	1084714	1071984	3764849
B	Ash Utilisation	MT	1085468	513615	1188679	989086	3776849
i)	Brick Manufacturing	MT	11418	6102	4662	4662	26843
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	579099	362819	473160	420693	1835771
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	197072	143631	420000	470000	1230703
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	Cement	MT	0	0	0	0	0
viii)	If any other area (Dyke Raising)	MT	297879	1063	290857	93731	683531
ix	Total Ash Utilisation	MT	1085468	513615	1188679	989086	3776849
C	Ash Utilisation percentage	%	128.6%	67.2%	109.6%	92.3%	100.3%

Name of the Authorised Person: Dr. A.S.P. Mishra

Signature: *Dr. A.S.P. Mishra*

E-mail id : asp.mishra@vedanta.co.in

Phone no. : 9937285045

*Note :

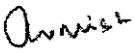
TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

1. Name of the Unit: Vedanta Limited, Jharsuguda, 2400 MW TPP
2. Power Generation Capacity: 2400 MW
3. Fly ash generation and utilisation in 2018-19
4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2018-19
A	Ash Generation (Fly Ash + Bed Ash)	MT	759352	766017	645453	917276	3088098
B	Ash Utilisation	MT	1146231.951	717014.57	856830.366	999692.6	3719769.487
i)	Brick Manufacturing	MT	1200.32	0	7863.4	4641.49	13705.21
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	462537.61	562578.46	615260.261	638317.92	2278694.251
iv)	Road Construction	MT	7202.241	0	0	2011.44	9213.681
v)	Filling of abandoned stone quarry	MT	33791.78	154436.109	134696.705	262291.75	585216.344
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	Cement	MT	0	0	0	0	0
viii)	If any other area (Dyke Raising)	MT	641500	0	99010	92430	832940
ix	Total Ash Utilisation	MT	1146231.951	717014.569	856830.366	999692.6	3719769.486
C	Ash Utilisation percentage	%	150.95	93.60	132.75	108.98	120.46

Name of the Authorised Person: Dr. A.S.P. Mishra

Signature : 

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Phone no. : 9937285045

*Note :

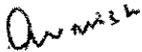
TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

1. Name of the Unit: Vedanta Limited, Jharsuguda, 2400 MW TPP
2. Power Generation Capacity: 2400 MW
3. Fly ash generation and utilisation in 2017-18
4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2017-18
A	(Fly Ash + Bed Ash)	MT	839552.000	838936.000	758239.000	932730.000	3369457.000
B	Ash Utilisation	MT	655356.290	344299.330	899012.270	1763885.082	3662552.972
i)	Brick Manufacturing	MT	0.000	0.000	53789.870	29820.868	83610.738
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	81502.000	179743.000	364394.040	750225.206	1375864.246
iv)	Road Construction	MT	161959.290	87433.330	234872.360	80361.008	564625.988
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	Cement	MT	0	0	0	0	0
viii)	If any other area (Dyke Raising)	MT	411895.000	77123.000	245956.000	903478.000	1638452.000
ix	Total Ash Utilisation	MT	655356.290	344299.330	899012.270	1763885.082	3662552.972
C	Ash Utilisation percentage	%	78.06	41.04	118.57	189.11	108.70

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*Note :

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S.N. 104

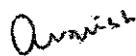
104

Format for Ash Utilisation Action Plan

1. Name of the Unit: Vedanta Limited, Jharsuguda, Captive Power Plant (1215 MW)
2. Power Generation Capacity: 1215 MW
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19): Annexure-1 & 2
4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	664133	605836	853609	843591	2967169
B	Ash Utilisation	MT	977799	443301	886821	664248	2972169
i)	Brick Manufacturing	MT	10625	5678	4338	4338	24979
ii)	Ready Mix Concrete	MT	0	0	0	0	0
iii)	Low Lying area filling/ Area Development	MT	607650	411027	511340	463641	1993658
iv)	Road Construction	MT	0	0	0	0	0
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	Cement	MT	40869	25459	60000	96001	222329
ix)	If any other area (Dyke Raising)	MT	318655	1137	311143	100269	731203
	Total Ash Utilisation	MT	977799	443301	886821	664248	2972169
C	Ash Utilisation percentage	%	147.2%	73.2%	103.9%	78.7%	100.2%

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*Note :

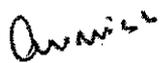
TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

1. Name of the Unit: Vedanta Limited, Jharsuguda, Captive Power Plant (1215 MW)
2. Power Generation Capacity: 1215 MW
3. Fly ash generation and utilisation in 2018-19
4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2018-19
A	Ash Generation (Fly Ash + Bed Ash)	MT	640101.000	590924.000	570882.000	661416.000	2463323.000
B	Ash Utilisation	MT	966629.559	396558.980	709164.093	698901.450	2771254.082
i)	Brick Manufacturing	MT	39936.250	13366.500	2342.670	20643.350	76288.770
ii)	Ready Mix Concrete	MT	0	0	0	0	0.000
iii)	Low Lying area filling/ Area Development	MT	352849.630	340814.800	581749.058	550514.690	1825928.178
iv)	Road Construction	MT	6408.459	5857.820	0.000	0.000	12266.279
v)	Filling of abandoned stone quarry	MT	0	0	3285.025	0	3285.025
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	Cement	MT	58935.22	36519.86	34797.34	67783.41	198035.830
viii)	If any other area (Dyke Raising)	MT	508500	0	86990	59960	655450
ix	Total Ash Utilisation	MT	966629.559	396558.980	709164.093	698901.450	2771254.082
C	Ash Utilisation percentage	%	151.01	67.11	124.22	105.67	112.50

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*Note :

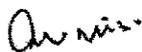
TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

Format for Ash Utilisation Action Plan

1. Name of the Unit: Vedanta Limited, Jharsuguda, Captive Power Plant (1215 MW)
2. Power Generation Capacity: 1215 MW
3. Fly ash generation and utilisation in 2017-18
4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2017-18
A	Ash Generation (Fly Ash + Bed Ash)	MT	575943.000	624146.000	652084.000	759053.000	2611226.000
B	Ash Utilisation	MT	479587.020	263481.030	665140.320	1573544.057	2981752.427
i)	Brick Manufacturing	MT	35557.600	22730.330	26117.030	44634.880	129039.840
ii)	Ready Mix Concrete	MT	0	0	0	0	0.000
iii)	Low Lying area filling/ Area Development	MT	51356.000	127981.000	177252.790	681792.240	1038382.030
iv)	Road Construction	MT	102445.830	37052.380	233112.830	64408.377	437019.417
v)	Filling of abandoned stone quarry	MT	0	0	0	0	0
vi)	Mines void filling	MT	0	0	0	0	0
vii)	Agriculture Utilisation	MT	0	0	0	0	0
viii)	Cement	MT	32938.590	22654.320	52013.670	47665.560	155272.140
viii)	If any other area (Dyke Raising)	MT	257289.000	53063.000	176644.000	735043.000	1222039.000
ix	Total Ash Utilisation	MT	479587.020	263481.030	665140.320	1573544.057	2981752.427
C	Ash Utilisation percentage	%	83.27	42.21	102.00	207.30	114.19

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*Note :

TPPs having fly ash utilisation less than 85 % will be given two years time period and TPPs having utilisation more than 85% will be given one year time period to achieve 100 % fly ash utilisation.

S.N. 105

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Format for Ash Utilisation Action Plan

1. Name of the Unit: Bharat Aluminium Company Limited
2. Power Generation Capacity: Present Power Generation Capacity 1740 MW. Another power plant 270 MW presently under suspension of operations from Dec 2015
3. Fly ash generation and utilisation in previous two years (2017-18 and 2018-19):

S.No	Year	Ash Generation	Ash Utilization	% Utilization
1	2017-18	31,50,906	18,77,999	60%
2	2018-19	27,98,031	28,65,417	102%

4. Fly Ash Utilisation Action Plan (quarter wise) *:

S.N.	Description	Unit	Q1	Q2	Q3	Q4	Total Fly Ash Utilisation in FY 2019-20
A	Ash Generation (Fly Ash + Bed Ash)	MT	8,30,000	8,30,000	8,30,000	8,30,000	33,20,000
B	Ash Utilisation	MT	8,30,000	8,30,000	8,30,000	8,30,000	33,20,000
i)	Brick Manufacturing	MT	83,000	83,000	83,000	83,000	3,32,000
ii)	Ready Mix Concrete	MT	NIL	NIL	NIL	NIL	NIL
iii)	Low Lying area filling/ Area Development	MT	2,28,250	2,28,250	2,28,250	2,28,250	9,13,000
iv)	Road Construction	MT	20,750	20,750	20,750	20,750	83,000
v)	Filling of abandoned stone quarry	MT	20,750	20,750	20,750	20,750	83,000
vi)	Mines void filling	MT	1,24,500	1,24,500	1,24,500	1,24,500	4,98,000
vii)	Agriculture Utilisation	MT	NIL	NIL	NIL	NIL	NIL
viii)	cement	MT	41,500	41,500	41,500	41,500	1,66,000
viii)	If any other area (Dyke strengthening and raising))	MT	3,11,250	3,11,250	3,11,250	3,11,250	12,46,600
ix	Total Ash Utilisation	MT	8,30,000	8,30,000	8,30,000	8,30,000	33,20,000
C	Ash Utilisation percentage	%	100%	100%	100%	100%	100%

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