34011/2/2004-CRC CPAM Ministry of Coal CPAM Section

Shastri Bhawan, New Delhi Date: 09th May 2017

<u>ORDER</u>

Subject: POLICY DECISION IN REGARD TO MMDR ACT-1957 GRANTING GOVT RECOGNITION FOR PREPRATION OF MINING PLAN.

In order to expedite the process of approval of mining plan/mine closure plan by standing committee for approval of mining plan/mine closure plan pertaining to coal, Lignite and sand for stowing it has been decided that henceforth all the mining plan/mine closure plan should be submitted along with project details duly filled up in standard checklist format in MS Word file as well as in Hard copy duly certified by RQP.

No change in format of the checklist is allowed and in case any deviation, is noticed from the respective mining plan/mine closure plan, the proposed mining plan/mine closure plan will be rejected.

Encl: Draft Checklist.

Signature Not Verified Digitally signed by ANANDA KUMAR MANDAL A.K.Mandal Date: 2017.05.0913:24:32 ISI Under Secretary to the Government of India (CPAM)

Copy: NIC, Coal for uploading on the Ministry's Website.

CHECKLIST FOR MINING PLAN AND MINE CLOSURE PLAN

	Parameters	De	Observation	
1	DETAILS OF THE BLOC	K		
a.	Name of Coal / Lignite Block			
b.	Name of the Coalfield/ Coal belt			
C.	Particulars of adjacent blocks: North, South, East, West	North : South:	East: West:	
d	Topo sheet No with latitude and longitude	Vesting Order	Mining Plan & Mine Closure Plan No. 4	
u.	Latitudes (N):		NO. 4	
	Latitudes (N):			
	Longitude (E):	° " E° " E	°″E°″E	
e.	Location of the Block District / State			
f.	CMPDIL Certificate of the project boundary of the Mining Plan			
g.	Type of the Project (Operating / under Implementation)			
2	DETAILS OF THE PRESEN	T PROPOSAL		
a.	BASE DATE OF			
	MINING PLAN/MINE CLOSURE PLAN			
b.	Scope of The mining plan			
3	ALLOTTEE COMPANY	DETAILS		
a.	Name the Mine Allottee			
b.	Status of the Applicant Company			
c.	Details of allotment/vesting order			
d.	Name and address of the applicant	Regd Office	Principal Place of Business	
e.	Relationship between the applicant and allottee company			
f.	Name and address of RQP with registration No			
g.	Name of the Previous allottee of the Block			
4	Details of the Previous	s approval of Mining plan		
a.	Date of Approval			
b.	Conditions, if any			

	Parameters	Details	Observation
C.	Scheduled year of		
	start of production		
d.	Proposed year of		
	achieving the		
	targeted		
	Data of actual		
e.	Date of actual		
	mining operations		
	if operations		
	already started		
f.	Likely date of		
	mining operations,		
	if operations not		
	yet started &		
	reasons for non-		
	commencement of		
	operations		
g.	Planned	Planned Actual Coal Production "Mte"	
	production and	Calendar year Coal OB UG OC "Mite" "MM3" SR	
	actual levels	Y-1 2007-08	
	vears (Coal in Mte	Y-2 2008-09 Y-3 2009-10	
	OB in MM^3 SR in	Y-4 2010-11	
	M ³ /te)	Y-5 2011-12	
	,,	Y-6 2012-13 Y-7 2013-14	
		Y-8 2014-15	
		Y-9 2015-16	
		Total	
h.	Reasons for		
	difference		
	between the		
	planned and actual		
	production levels		
5	Details of changes in t	Provious Mining Plan	
	lease area "Ha"		
h.	Project Area "Ha"		
0.	Life of the Project		
L.	"Yrs"		
d.	Minimum and		
	Maximum Depth		
	of working "m"		
e.	Geological Block		
	("Ha"		
f.	Production Target "MTPA"		
g.	Seams Available		

	Parameters	Details	Observation
	"As per GR"		
h.	Seams not considered for Mining with Reasons		
i.	Geological Reserve "Mt"		
j.	Blocked Reserve "Mt"		
k.	Minable Reserve "Mt"		
Ι.	Extractable Reserves "Mt"		
m.	% of Extraction/ recovery		
n.	Reserve Depleted (till the base date) Reserves "Mt"		
0.	Balance Extractable reserve "Mt"		
p.	Average Grade		
q.	OB in MM3		
r.	SR MM3/te		
s.	Mining Technology		
t.	Coal Beneficiation envisaged		
u.	Handling of Rejects		
v.	Land use pattern " Ha"		
1	Excavation Area		
2	Top Soil Dump		
3	External Dump		
4	Safety Zone		
5	Other Use		
6	Infrastructure area		
7	Green Belt		
8	Undisturbed Area		
9	Total		
w.	Reasons for Revision		
6	END USE OF COAL/LIGN	ITE	
a.	End Use of Coal/Lignite as per approval by the		
	Competent Authority		
b.	ivorms adopted for calcu	ilating KOW quantity requirement based in the allotment order	

	Parameters		Observation						
			Clinker	"MTPA"	Power P	lant "kW"	Blast Furnace	"Mtpa"	
	Capacity of the end use plant								
	Capacity of the Project "MTPA"								
	Raw Coal availability from this project " Washed coal availability "MTPA"	"MTPA"							
	Reject "MIPA" Station Heat Pate "K Cal/Kwbr								
	Avg Calorific Value of Coal "Kcal/Kg"	Raw coal							
	W	/ashed coal Rejects							
	Specific consumtion "Kg/Kwhr" Consumption Norm (Kg/Tonne)		175	175					
	Plant Load Factor/ Capacity Utilisation Coal Requirement "MTPA"		0.85	0.85	0.85				
	Total Requirement for the End Use Plan	nts "MTPA"							
	Source of coal requirment								
	Coal from this proje Lingkages/ E-auction from C	ect "MTPA" CIL "MTPA"							
	Other block of the Compa Total availabil	ny "MTPA" lity "MTPA"							
C	Percentage of end use								
С.	requirement to be met								
	from this mine								
h	If washing /								
а.	beneficiation of the								
	coal/ lignite is planned								
	to be conducted on								
	site or adiacent to the								
	extraction area. briefly								
	describe the nature of								
	the beneficiation and								
	recovery rate.								
	consumption of water								
	etc.								
e.	Proposed Use of								
	Rejects/Middling's								
f.	Distance of End use								
	plant from the pit head								
	of the project in "km"								
g.	Mode of Coal								
0	Transport								
7	EXPLORATION AND G	EOLOG	Y						
а	Geological Block Area "		-						
	Ha"								
b.	Status of Exploration								
	of the block								
С.	Area covered by								
	'detailed' exploration								
	within the block (sq.								
	km)								
d.	Whether entire lease								
	area has been covered								
	by 'detailed'								
	exploration.								
e.	No. of boreholes								
	drilled within the block								
f.	Whether any further								
	exploration/study is								

	Para	meters	;					De	tails				Observation				
	required o	or sugg	ested														
	and time	fram	e in														
	which it	is to	b be														
	completed																
g.	Overall	bor	ehole														
	density	within	the														
	DIOCK (NO	o./ sq.	KM)														
h		ms ava	ilahle														
11.	as per GR	1115 ava	nubic														
i.	Seams no	t consid	dered														
	for Mi	ning	with														
	Reasons	-															
j.	Dip of the	Seam															
k.	Seam wise	Thickn	ess and	Depth													
				Net		Blocke	d Reserve	below		Min P	es " Mte"						
	Seam Rajhara A	Thickness Range 'm'	Depth Range 'm'	Geological Res "Mte"	Highwall/ Batter	Nala/ River/Road	Barrier	Un- economi	Total Blocked	UG		Mining losses					
	P Rajhara B P Pandwa Top																
	P Pandwa Bottom Total																
	Seam		Ext Res "Mte"	Lisbust	Dep	pletion of Res	As	on base da	ate "Mte" Balan	ce Reserve	Tatal	Reason not considered for					
	Rajhara A Rajhara B			Fighwaii	03		Highwaii			Highwaii	Total						
	Pandwa Top Pandwa Bottom																
	Total																
	Average G	CV															
1. m	Gross	Geol	ogical														
	Reserve o	of the	block														
	"Mte"		2.0 cm														
n.	Net Geolog	gical Re	serve														
	of the bloc	k "Mte'															
0.	Minable R	eserve o	of the														
	block "Mte	è															
р.	Blocked Re	eserve "	Mte														
q.	Correspon	ding															
	extractable	e reserv "N4+o"	ve ot														
r	Dercentage		of														
1.	Extraction																
S.	Reserve	al	readv														
	depleted (Base da	, ate of														
	Mining Pla	n)															
t.	Balance Re	eserve (As on	_		_			_	_	_						
	Base Date)																
8																	
a.	Existing	Existing method of															
	mining if	the mi	ne is														
1-	under ope	ration	d of														
D.	mining	metho	with														
	justificatio	n	on														
	suitability	of me	ethod														
	of mining																

	Paramete	rs		Deta	ails		Observation						
C.	Coal proc capacity pro "Mtpa"	duction oposed											
d.	Justification optimisation production capa	for Coal city	for Coal Y from										
e.	Calendar year which the proc will start	from duction											
f.	Year of Achieving production	g rated											
g.	Coal production	Plan "MT"	Coal pro	oduction	ОВ	SR							
	Y-1 Y-2 Y-3 Y-4 Y-5 Y-6 Y-7 Y-8 Y-10 Y-11 Y-12 Y-13 Y-16 Y-17 Y-18 Y-20 Y-21 Y-22 Y-23 Y-24 Y-26 Y-27 Y-28 Y-29 Total	2017-18 2018-19 2019-20 2020-21 2022-23 2023-24 2023-24 2024-25 2025-26 2025-26 2026-27 2027-28 2029-30 2030-31 2031-32 2032-33 2033-34 2034-35 2035-36 2035-36 2035-36 2035-38 2038-39 2039-40 2040-41 2041-42 2042-43 2043-44 2045-46											
i.	Peak/Rated Cap	acity											
	- By UG - By UG - Overal	i											
j.	Life of the mine	:											
	- By OC - By UG - Overal	i I											
k.	Whether the pro external OB dur is coal/ lignite b If so, w coal/lignite waste disposal extractable.	oposed mp site bearing: /hether below area is											

	Parameters	Details	Observation
Ι.	Whether negative		
	proving for coal /		
	lignite in the proposed		
	site for OB dump/		
	infrastructure has		
	been done.		
m.	Whether the mining		
	operations to be		
	carried out through		
	departmental		
	equipment/ MDO/		
	outsourcing.		
n.	Operations that are		
	proposed to be		
	Outsourced		
0.	Proposed		
	LEMM for OC (Cool &		
	Equipment for UG		
n	Mode of entry for		
р.	underground mines		
	(shaft. incline. adit.):		
a	Results of any		
Ч·	investigation carried		
	out for scientific		
	mining, conservation		
	of minerals and		
	protection of		
	environment; future		
	proposals.		
9	IMPORTANT SAFETY		
	ASPECTS –		
	Major Risks and		
	uncertainties to the		
	project viz. Proximity		
	to river, adjacent		
	working, geo-mining		
	stability and romodial		
	measures suggested		
	measures suggested.		
	It should also include		
	proposed overall slope		
	of the quarry and OB		
	dump, dump height,		
	strata control, fire and		
	spontaneous heating,		
	gas monitoring,		
	disaster management,		
	danger from inrush of		
	water etc		
10	STATUS OF LEASE		

	Parameters	Details	Observation
a.	Status of Lease		
b.	Existing Lease Area "Ha"		
с.	Period for which Mining Lease has been granted/is to be renewed/ is to be applied for.		
d.	Date of expiry of earlier Mining Lease, if any		
e.	Whether the lease boundary/ required boundary is same as demarcated by CMPDI/ SCCL/ NLC for delineating block/sub- block		
f.	Lease Area (applied/ required) as per the Mining Plan under consideration (Ha)		
g.	Whether the applied lease area falls within the allotted block		
i.	Area (Ha) of lease which falls outside the block/sub-block delineated by CMPDI/SCCL/NLC.		
j.	Details of outside		
	- Whether forms part of any other coal block		
	- whether it contains any coal/lignite reserves		
	 Purpose for which it is required, e.g. roads/ OB dumps/ service buildings/ colony/ safety zone/ others (specify) 		
k.	Whether some part(s) of the allotted block has not been applied for mining lease.		

	P	Parameters					Dete	ails								Observation
	-	Total area in Ha														
	-	Total reserves														
		in such part(s).														
	-	(Mt) Brief reasoning														
		for leaving														
		such part(s)														
11	ENVIR	ONMENTAL MAN	IANGEMENT													
a.	La	nd use pattern ir	n Ha Pre Mining	, Dur	ing I	Mini	ng a	and	Pos	t Clo	osure	e Lar	nd U	se a	nd	
	Po	st Closure Manag	ment of the Land should be provided in the following table													
				Incluse	Land Lies				Land	Use (Post C	Closure)		1			
		Pre Mining Land Use "Ha"	Туре	(During Mining)	(End Ose (End of Life)	Agricultu ral land	Plantatio n	Water Body	Public/C ompany	Water Harvestir	Dismenta led area	Forest Land (Returne	Undistur bed	Total		
		Agricultural E	xcavation Area						Use	g		d)				
		Grazing E Barren V	iackfilled Area ixcavated Void Vithout plantation													
	Ten	ancy Water Bodies T Road E	op Soil Dump xternal Dump													
		Community S Inhabitated F	afety Zone //Rationalisation area													
		Village E Agricultural F	Diversion/below River/Nala/canal Load & Infrastructure area													
	Gov	Township C t Non Grazing /other E	Garland drains Imbankment													
	Fo	rest Road C Water body V	Green Belt Vater Reservoir near pit/Water body													
		Other L Reserve F	JG entry 'it head power plant													
	Fo	rest Protected F C-J-B-J L	lesettment Indisturbed/ Mining right for UG													
	Free Total	Hold c	thers													
			1													
b.	Su Su	rface features er the block area														
с.	No	o. of														
	vil	lages/Houses to														
	be	shifted														
d.	Po	pulation to be														
	aff	fected by the														
	pr	oject														
e.	M	onitoring	Air Quality	_												
	scl	hedules for	Water & efflue	ent qu	ality	/										
	dif	fferent	Ground water	level	mon	itori	ng									
	en	vironmental	Noise level				-	1								
	со	mponents after	Study of Flora	and F	ลแกะ	4										
	th	e mmonaart f			aant	-										
		inimencement of	Soil Quality													
		lated activities														
12	PROG	RESSIVE & FINAL		ΡΙΔΝ				<u> </u>								
12.1	Daran	notors of Mining	Dian viela vie	Mino	Cla	SUPP	nla	n								
12.1			s riaii vis-d-vis			sure	- hig	11 nnr:	0.40	ملم ا	.+-:	۰ <u>م</u>			~ d	
	minin	g plan must be	provided)	eing p	nace	eu 10	ла	ppr	oval	i ae	etall	s of	app	JTOV	ea	
	Approved Mining Plan Mine Closure Plan									an 8 an	k					
a	Le	ase area "Ha"												-		
4. h	Dr	oject Area "Ha"						-								
D.		OJECT AIEA HA						1								l

		Parameters	Deta	ails	Observation
с.		Life of the Project			
		in Years			
d.		Minimum and			
		Maximum Depth			
-		Geological Block			
е.		"Ha"			
f.		Production Target "MTPA"			
g.		Seams Available			
		"as per GR"			
h.		Seams not			
		mining with			
		reasons			
i.		Geological Reserve			
		"Mte"			
j.		Blocked Reserve "Mte"			
k.		Minable Reserve "Mte"			
١.		Extractable			
		Reserves " Mte"			
m.		% of recovery			
		Reserve Depleted			
		(till base date) in			
		Mt			
		Balance			
		Reserve in Mt			
		Avg. Grade			
n.		OB MM3			
0		SR MM3/te			
р.		Mining Technology			
<u>а</u> .		Coal Beneficiation			
٩.		envisaged			
r.		Handling of Rejects			
s.		Land use pattern " Ha"			
	1	Excavation Area			
	2	Top Soil Dump			
	3	External Dump			
	4	Safety Zone			
	5	Other Use			
	6	Infrastructure area			
	7	Green Belt			
	8	Undisturbed Area			
		Total			
12.2	Sta	atutory obligations			

	Pa	irame	ters		Details									Observation		
12.3	Waste I	Manag	gemen	t (Figu	res in	MM3))									
							-			1			1			
			C	ummulative	e OB Rem	oval		External D (Cummula)ump ative)	Interna ((l Dump/ B Cummulat	ackfilling ive)	En	nbankmen	t	
			Top Soil	OB	T	otal	()B	Top Soil	OE	3 1	Fop Soil	OB	To	p Soil	
	Y-1 V-3															
	Y-5															
	Y-10															
	Y-15															
	Y-20 Y-25															
	Y-29															
	Y-30-32															
12.4	Biologia	aland	l techr	nical re	clam	ation	of mi	ned or	ut lan	Ч						
	Diologic			licaric	.ciaini		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			a						
		Excavatio	n area for	Cu	mmulativ	e area "Ha"			I		Cumu	ulative Pla	ntation are	a "Ha"		
	Year/Stage	OC/ Recla	imed area	Backfilling	Void	TS Dump	Extn	Others	Total	Backfill	Dump	Green	ture/	Agri Land	Total	
	V_1	for	UG				Dump					Alea	Barren			
	Y-3															
	Y-5															
	Y-10 Y-15															
	Y-20															
	Y-25 Y-29															
	Y-30 to Y-32															
					1	1	1	1			1			1		
43.5			-													
12.5	water			ality												
	manage	ment :		ung												
	in the l	ooco h														
	Moscur	ease i	bo to	ea, kon												
	for pro	es lu	n of	the												
	same ir	ncludin		trol												
	of	Iciuum	erosi	ion												
	sedime	ntatior	1 1	1011,												
	siltation	n N	', W2	ater												
	treatme	'' nt div	/ersior	n of												
	water	course	if a	anv:												
	Measur	es		for												
	protecti	ion		of												
	contam	inatior	า	of												
	ground	wat	er fr	om												
	leaching	g etc: (Quality	y of												
	surface	wate	r boo	, dies												
	and		measu	ires												
	propose	ed to	meet	the												
	water	guality	/: Rer	ort												
	of hvd	rologi	ral st	udv												
	of the	area	: W/=	ater												
	Balance	Chart	etc)													
	2 3131100	enart														1

	Paramet	ters		Det	ails				Observation
12.6	Top Soil Mana	gement –	(Including Actio						
		Top Soil		Top Soil Used "MN	13"				
	Year/ Stage	Removal "MM3"	Embankment	Spreading over the backfilled area	Spreading over the ob dump area	Using for Green Belt area	Total utilised ts		
	1 st year								
	3 rd year								
	5 th year								
	10 th year								_
	15 th year								
	20 th year								_
	29 th year								_
	32 nd vear								
12.7	Coal beneficia management	tion and of Coal							
	Rejects,	proposal							
	regarding	future							
	maintenance	and							
	dismantling	of							
	structures, slu	rry pond							
	and rejects								
12.8	Infrastructure	to be							
	retained and	to be							
	dismantled	and							
	measures to b	oe taken							
	for their	physical							
	stability	and							
	maintenance	for the							
	retained infras	structure							
	facilities;								
12.9	Decommission	ning of							
	mining equipn	nent and							
	their possibl	le post							
	mining use	-							
12.10	Safety measur	res to be							
	implemented	to							
	prevent acc	ess to							
	surface open	ning for							
	underground	working,							
	excavation	etc							
	(fencing to be	e carried							
	out by barbed	wires							
12.11	Economic								
	Repercussions	of							
	closure of	mine -							
	Manpower								
	retrenchment								
	compensation	to be							
	given socio o								
	BIVEII, SULIU-E	2011011110							
	repercussions	anu							
	remedial n	neasures							

	Parameters	Deta	iils		Observation
	consequent to closure				
12.12	Time scheduling for abandonment with bar chart for the life of the project plus 3 years	akon un for closuro of the mine			
12.15	Cost of Activities to be ta	aken up for closure of the mine		Rate Bs/ Amount "Rs.	
	Progressive closure Progre	anagement general ing around dump cing around dump cing around the Pit Hanading of Crown Dump Hanading Provident of Land and OB Dump my around the general and supervision d the dump d the dump Hanadian be dump Manadian	Unit Qua LS LS MOM M M M M M M H A H A H A M M M M M	Unit Cr ^{as}	
	Dismentaling of Infrastructure & Rehabilitation of Disposal/ rehabilitation of Mining Dismentaling of machinery Rearranging we Dismentaling of Rearranging we Dismentaling of	workshop the diametrated Facilities pumps and Pipels/other facilities stowing burker, provisioning of pumps for borewell pumping arrangement step pipeline to dump top park/ Agricultural land Power lines			
	Eartract virie fam Barback virie fam Barback view fam Concerns view Eaferty and security Eaferty and security Concerns view Concerns view Conc	eing around dump and an			
	Filling of Void Top Soil mana Reclamation of Mined out of iand Terracing, blar and OB Dump Expenditure or Landscaping a	gement for backfilling keining with soil and vegetation of External OB Dump keining with soil and semented alteps on bank development of Agricultural land nd Plantation	Ha MM3 MM3 Ha LS		
	Post Closure management and Post Mining XI supervision Waste Manage Manpower Cost Enterprenueral Enterprenueral	ater quality management zuality management antioring for 5 years ment it and supervision jr development (xocational/skill development training for sustainable i	LS LS LS LS LS LS ncome of affected people		
	Others Golden Handel Golden Han Dretime finance Continuation of Total	Take / Retrenchment benefits to 100 employees of OC dahake / Retrenchment benefits to 200 employees of UG dahake / Retrenchment benefits to 200 employees of UG damines of the opposite of the services like running of schools etc.	oon the project;		
12.14	Amount to be deposited carried out for the closu	in Escrow account as a security ag re of the mine	gainst the mi	ne activities to be	
	WPI as on August'09 WPI as on base date "Base I Escalation rate of Closure cos Rate of componding of Annua Amount to be deposited into E	Date for the Mining Plan/ Mine Closure Plan at I Closure Cost scrow Account after compounding @ of 5 ^r	Aug-09	129.60 5.00%	
	Crs Base Rate of Closure Cost "R Closure Cost "Rs. Crs/Ha" Lease Area	ts. Crs./Ha"	UG 0.01	OC 0.06	
	Amount to be deposited into E Amount already deposited into Net Amount to be deposited in Balance Life of the project "in Annual Closure Cost	scrow Account "Rs. in Crs" Escrow Account "Rs. in Crs" to Escrow Account "Rs. in Crs" Yrs"			
13	Responsibility of Mine owner				
14	Provision of Mine				
15					
15	ANNEXUKES	1			
	order /Vesting order.	Mandatory			
	Certificate of CMPDIL that the project boundary considered for the Mining plan is in coherence with the block boundary vested	Mandatory			
	with the allottee.				

	Parameters	Details		Observation
	Approvals of Mine Closure plan form the Board of the company.	Mandatory		
IV	Copy of earlier approval of mining plan.	Mandatory		
V	Copy of MOC's Letter granting recognition to RQP for preparation of Mining plan.	Mandatory		
VI	Letter of authorisation by the Block allottee for formulation of Mining Plan & Mine Closure Plan by the RQP.	MP & MCP		
VII	Certificate of acceptance of the RQP to formulate the Mining Plan & Mine Closure Plan on behalf of the project proponent.	MP & MCP		
VIII	A certificate by the RQP that he has been duly authorized by the mining company to prepare Mining plan & MCP on their behalf and that he has a valid recognition from MOC under MCR, 1960 to prepare the Mining plan and that provisions of all relevant rules and regulations made there under have been observed in the preparation of mining plan.	MP & MCP		
IX	The Mining plan/ Mine Closure plan has been prepared considering the guidelines pertaining to mining plan/ mine closure plan issued by MoC, GOI & wherever specific permission will be required the applicant will approach the concerned	MP & MCP		

	Parameters	Details		Observation
	authorities.			
X	Confirmation from RQP that he has verified the block area with the relevant plans supplied by CMPDI/ SCCL / NLC and area covered by the mining plan does not encroach on any other coal lignite block.	МР		
XI	Certificate from empowered representative of / or Block allottee/ applicant that he mine will be developed as per the approval of the mining plan from Ministry of coal and all other approvals, as required will be obtained from relevant authorities	МР		
XII	Copy of the document to establish that the geological report has been duly purchased from CMPDI, GSI/ MECL as the case may be.	МР		
XIII	Certificate of RQP that the project boundary considered for the Mining Closure Plan has been verified by RQP. It is in coherence with the block boundary of vesting order and approved mining plan and no discrepancy has been found.	MP & MCP		
XIV	Certificate that the Mine Plan & Mine Closure plan have been prepared in line with the approved Mining plan and the mine parameters considered for formulation of mine closure plan is	MP & MCP		

	Parameters	Details		Observation
	exactly the same, which has been approved in the Mining plan.			
XV	Certificate from empowered representative of / or Block allottee/ applicant that he mine that the reclamation & rehabilitation work shall be carried out in accordance with the approved mine closure plan and any modification /amendments which may be made in the mine Closure Plan by Ministry of Coal, from time to time.	MP & MCP		
XVI	Documents in support of Mining Lease, in case the lease has already been granted.	MP & MCP		
XVII	Hydrological study carried out if any.	MP & MCP		
XVIII	Other document	MP & MCP		
XIX	Environment Clearance to previous allottee & Transfer to current allottee	MP & MCP		
XX	Stage – I FC diversion approval from MoEF & CC to the previous allottee & Transfer to current allottee	MP & MCP		
16	LIST OF PLANS			
I	Location plan	MP & MCP		
11	Reference no. of plan of block boundary issued by CMPDI/ SCCL/ NLC (A copy of the Plan also to be annexed)	МР		
111	Plan in scale of not less than 1: 10000 showing approved block boundary vis-à-vis proposed/existing mining lease & Mine boundary	MP & MCP		

	Parameters	Details		Observation
	superimposed over it			
	in distinct colour.			
	Geological plan showing all the boreholes drilled and proposed to be drilled showing allotted block boundary and required lease area	MP & MCP		
V	Graphic Litholog	MP & MCP		
VI	Surface Plan showing drainage system, Contour , at minimum 3m interval, location of BH	MP & MCP		
VII	Conceptual plan showing infrastructure facilities including colony, boundary of mining area, mine entries, roads including road diversion alignment etc	MP & MCP		
VIII	Land use plan showing Govt, forest and Tenancy land	MP & MCP		
IX	Floor contour plan and seam folio plan, iso- grade plan	MP & MCP	Seam Floor Seam Contour Folio	
X	X-section showing coal/Lignite seams	MP & MCP		
XI	Plan showing existing and proposed surface layout	MP & MCP		
XII	Post mining land use plan	MP & MCP		
	Progressive mine closure plan/ stage plan indicating stages at 1st,3rd, 5th, 10th, and 20th interval (showing area, volume, dump height etc for OC and seam-wise layout projects and ventilation system in UG)	MP & MCP	Year Plate No 1st	
XIV	Reclamation plan	MP & MCP		
	OPENCAST MINES			

	Parameters	Details		Observation
XV	Plan showing total coal thickness and overburden thickness and stripping ratio	oc		
XVI	Final stage quarry plan showing haul road alignment	oc		
	UNGRAOUND MINES			
XVII	Plan showing mode and location of entries and surface layouts	UG		
XVIII	Layout of the panel for each system Longwall, Bord & Pillar, road header should be given)	UG		
XIX	Layout of pillar extraction	UG		
XX	Support system	UG		
XXI	Haulage and transport system	UG		