

Ref No.: PO (KBP OCP)/2024-25/755

Dated:29.03.2025

To,
The Divisional Forest Officer (DFO),
Ramgarh Forest Division,
Ramgarh, Jharkhand

Sub: *Submission of Stage I Compliance as per MOEF & CC letter no FP/JH/Road/46818/2020/147 dated 03.03.2025 in respect of diversion of 2.12 Ha of forest land in favour of M/s CCL for construction of approach road for Basantpur Tapin Coking Coal Washery under Ramgarh Forest Division in Ramgarh District of Jharkhand - Reg.*

Ref:
1. MOEF & CC Regional Office letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025.
2. DFO, Ramgarh, letter no. 707, dated- 11.03.2025.

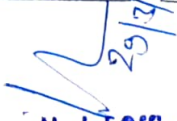
Dear Sir,

This is with reference to your letter cited in reference wherein you have directed to fulfill the compliance stated in Forest Stage-I Clearance as per the directive of MoEF&CC, Regional Office letter dated 03.03.2025. We would like to submit that all the compliance stated in Part A & B for Forest Stage-I Clearance has been completed.

We hereby submit the 8 set of compliance reports/letter & undertaking at your good office.

Pointwise reply and documents status is appended below:

A	Conditions which need to be complied prior to handing over of forest land by the State Forest Department	
Sr. No.	Condition	Compliance Status
1.	The cost of compensatory afforestation on the CA Land (4.24 Ha) at the prevailing wage rates as per compensatory afforestation scheme (including the cost of survey, demarcation and erection of permanent pillars etc. as required for securing the land against encroachment) shall be deposited in advance with the State Forest Department by the Project Authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years.	An amount of Rs. 1,28,39,594/- has been deposited, against demand note raised by Ramgarh Forest Division vide letter no. 707 dated 11.03.2025, in Jharkhand CAMPA account No. 150726146818909, UTR:ICICR22025032808579882 on 28.03.2025 (which includes the cost of compensatory afforestation and cost of pillaring amounting to Rs. 1,08,09,100/-). Copy of Challan and payment certificate enclosed as Annexure A IA. The 10-years CA scheme with anticipated cost increase for works scheduled for subsequent years is enclosed as Annexure A IB.
2.	The State Government shall charge the Net Present Value (NPV) for the 2.12 Ha forest area to be diverted under this proposal from the User Agency as per the order of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008, 24/04/2008 and 09/05/2008 in IA No. 566 in WP (C) No.	An amount of Rs. 1,28,39,594/- has been deposited, against demand note raised by Ramgarh Forest Division vide letter no. 707 dated 11.03.2025, in Jharkhand CAMPA account No. 150726146818909, UTR:ICICR22025032808579882 on 28.03.2025 (which includes the cost of NPV against diversion of 2.12 Ha of forest land of Ramgarh Forest Division, amounting


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	202/1995 and as per the guideline issued by the Ministry vide letter No. 5-1/1998-FC (Pt.II) dated 18/09/2003 as well as letter no. 5-2/2006-FC dated 03/10/2006, 5-3/2007-FC dated 05/02/2009 and letter No. 5-3/2011-FC (Vol-I) dated 06/01/2022 in this regard.	to Rs. 20,30,494/-). Copy of Challan and payment certificate enclosed as Annexure A IA.
3.	All the funds received from the User Agency under the project shall be transferred/ deposited to CAMPA fund only through e-portal (https://parivesh.nic.in/);	All the statutory fund has been transferred/ deposited to CAMPA fund only through e-portal (https://parivesh.nic.in/). CAMPA Levies form it is enclosed as Annexure- A IIIB
4.	A Muck Disposal Plan should be prepared by the User Agency to ensure that the muck/wastage generated should be disposed of in proper manner. Such plan, duly approved by the concerned DFO, should be submitted to this office before soliciting working permission.	Nine hard copies of Muck Disposal Plan duly approved by DFO, Ramgarh vide letter no. 868 dated 29.03.2025. Enclosed as Annexure - A IV
5.	The FRA Certificate as per Ministry's guidelines shall be submitted before the issuance of final approval. The Complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificate from the concerned District Collector.	Copy of Settlement of rights, in terms of the Scheduled Tribes and Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 in respect of forest area proposed for diversion in Ramgarh District is enclosed as Annexure - A V.
6.	The KML files of the forest area to be diverted and the CA areas shall be uploaded on the e-Green watch portal with all requisite details and submitting compliance report for seeking Stage-II approval.	Soft Copy of KML files of the forest area to be diverted and the CA areas is enclosed in Pen Drive for uploading on e-green watch portal.
7.	Violation of any of these conditions will amount to violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and action would be taken as prescribed in para 1.16 of Chapter-I of the Consolidated Guidelines of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 as issued by this Ministry's letter dated 29.12.2023.	Agreed. (Undertaking in this respect attached as Annexure - A VI)
8.	The compliance report shall be uploaded on e-portal (https://parivesh.nic.in/).	The Compliance report of Stage-I Forest Clearance uploaded on e-portal (https://parivesh.nic.in/).
B	Conditions which need to be strictly complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval:	
1.	Legal status of the forest land shall remain unchanged.	Agreed. (Undertaking in this respect attached as Annexure - B I)
2.	Compensatory afforestation shall be taken up by the Forest Department over 4.24 Ha. degraded forest land (Sites - Bongabar, Ranga - Kuju, Thana - Mandu/153, Plot No. 170,166,167 (Gross Area - 5.42 Ha) under Ramgarh Forest Division) at the cost of the user agency. As far as possible, a mixture of local native species shall be planted and monoculture of any species, especially non-native species should be avoided.	Agreed. An amount of Rs. 1,28,39,594/- has been deposited, against demand note raised by Ramgarh Forest Division vide letter of No. 707 dated 11.03.2025, in Jharkhand CAMPA Account No. 150726146818909, UTR:ICIR22025032808579882 on 28.03.2025 (which includes the cost of compensatory afforestation and cost of pillaring amounting to Rs. 1,08,09,100/-). Copy of Challan and payment certificate enclosed as Annexure A IA. State Forest Department may be requested to ensure

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		plantation of a mixture of local native species and monoculture of any species, especially non-native species should be avoided. (Undertaking in this respect attached as Annexure – B II)
3.	Additional amount of the Net Present Value (NPV) of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall also be charged by the State Government from the user agency. The user agency shall furnish an undertaking to this effect.	Agreed. (Undertaking in this respect attached as Annexure – B III)
4.	User Agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision and direction of the State Forest Department; the cost of felling of trees shall be deposited by the User Agency with the State Forest Department.	Agreed. (Undertaking in this respect attached as Annexure – B IV)
5.	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.	Agreed. (Undertaking in this respect attached as Annexure – B V)
6.	The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986 if required.	The instant proposal is for Approach Road for Basantpur-Tapin Coking Washery. The total length of the road is 1.70 Km and right of the way 26 m only. Hence, the instant proposal is exempted to obtain Environment Clearance as per the provisions S.O. 2559 (E.) dated 22 August, 2013 of Ministry of Environment and Forest, New Delhi. (Undertaking in this respect attached as Annexure – B VI)
7.	Wherever possible and technically feasible, the User Agency shall undertake appropriate afforestation or vegetation enrichment measures near the site(s) related to the area diverted under this approval, in consultation with the State Forest Department at the project cost.	Agreed. (Undertaking in this respect attached as Annexure – B VII)
8.	No additional or new path will be constructed inside the adjoining forest area for transportation of construction materials for execution of the project work.	Agreed. (Undertaking in this respect attached as Annexure – B VIII)
9.	The layout plan of the proposal shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change.	Agreed. (Undertaking in this respect attached as Annexure – B IX)
10 a.	No labour camp shall be established on the forest land.	Agreed. (Undertaking in this respect attached as Annexure – B X A)
10 b.	The User Agency shall provide alternate fuels preferably LPG to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.	Agreed. (Undertaking in this respect attached as Annexure – B X B)
10 c.	Earth or any other material shall not be brought from and debris resulting during construction shall not be disposed of in the adjoining forest area by the user agency	Agreed. (Undertaking in this respect attached as Annexure – B X C).

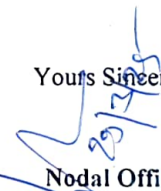
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11 a.	The period of diversion under this approval shall be co-terminus with the period of the project life.	Agreed. (Undertaking in this respect attached as Annexure – B XI A)
11 b.	The forest land shall not be used for any purpose other than that specified in the project proposal.	Agreed. (Undertaking in this respect attached as Annexure – B XI B)
11 c.	The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department, or person without prior approval of the Ministry of Environment, Forest & Climate Change.	Agreed. (Undertaking in this respect attached as Annexure – B XI C)
12.	The User Agency and the State Government shall ensure compliance to provisions of the Acts, Rules, Regulations, Guidelines, Hon'ble Court Order(s) and National Green Tribunal Order(s) pertaining to this project, if any, for the time in force, as applicable to the project.	Agreed. (Undertaking in this respect attached as Annexure – B XII)
13.	Any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forest & wildlife.	Agreed. (Undertaking in this respect attached as Annexure – B XIII)

In view of the above-stated compliance standards, it is requested to kindly acknowledge the same and expedite processing of the Forest Stage II approval, so that Forest Clearance can be obtained from the competent authority.

With Regards.

Yours Sincerely,


Nodal Officer
Basantpur Tapin Washery

Annexure: Enclosed as above.

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Coking Coal Washery

Date – March 28, 2025

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Central Coalfields Ltd has made the below mentioned payment from their Current Account maintained with Our Bank-

Sl No.	Beneficiary Name	Amount	Beneficiary A/c no	Bene IFSC	UTR	Date of Transaction
1	JHARKHAND CAMPA	1,28,39,594.00	150726146818909	UBIN0996335	ICICR22025032808579882	28-03-2025

It is clarified that this information is furnished in strict confidence and without any risk and responsibility on our part or on the part of any Bank's officials in any respect more particularly either as guarantor or otherwise.

This certificate is issued at the specific request of the said customer.

Regards,



Authorized Signatory
ICICI Bank Ltd
Ratu Road Ranchi – 834001

ICICI Bank Limited
Modi Heights, Shop # 05 & 06
Website www.icicibank.com
Ranchi- 834001,
Jharkhand, India

Regd. Office : ICICI Bank Tower,
Near Chakli Circle, Opp. All India Radio Station,
Old Padra Road,
CIN : L65190GJ1994PLC021012 Vadodara 390 007, India

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Nodal Officer
Basantpur Tapin
Coking Coal Washery



कार्यालय:- वन प्रमंडल पदाधिकारी, रामगढ़ वन प्रमंडल, रामगढ़।

(रांची रोड नियर बी.आर.एल. गेट, पो-मरार, जिला-रामगढ़ पिन-829117)

Email id - dfo-ramgarh@gov.in, Land Line No-06553-296061 Mobile No-8987790306

पत्रांक:-707

दिनांक:-11/3/25

सेवा में,

महाप्रबंधक,
सी0सी0एल0 हजारीबाग क्षेत्र,
चरही।

विषय :- सी0सी0एल0 की बसंतपुर तापीन कोल बाशरी पहुँच पथ निर्माण हेतु वन संरक्षण, अधिनियम, 1980 के तहत 2.12 हे० वन भूमि अपयोजन का प्रस्ताव के संबंध में। (Proposal No-FP/JH/ROAD/46818/2020)

प्रसंग:- भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय, रांची का पत्र संख्या- FP/JH/ROAD/46818/2020/147 dated 03.03.2025

महाशय,

उपर्युक्त विषयक प्रसंगाधीन पत्र के संबंध में सूचित करना है कि सी0सी0एल0 की बसंतपुर तापीन कोल बाशरी पहुँच पथ निर्माण हेतु वन संरक्षण, अधिनियम, 1980 के तहत 2.12 हे० वन भूमि अपयोजन का प्रस्ताव को भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय, रांची के पत्रांक- FP/JH/ROAD/46818/2020/147 dated 03.03.2025 द्वारा प्रथम चरण की सशर्त स्वीकृति प्राप्त है। प्रसंगाधीन पत्र में वर्णित शर्तों के तहत प्रस्ताव में सन्निहित रकबा-2.12 हे० पर प्रथम चरण की स्वीकृति में लगाए गए शर्त संख्या-A.1 तथा A.2 के तहत क्षतिपूरक वनरोपण तथा एन०पी०बी० की राशि की गणना का मांग पत्र निम्नवत है:-

क्र० सं०	भारत सरकार द्वारा लगाए गई शर्त संख्या	वसूल की जाने वाली राशि
1	शर्त संख्या-A.1 के अनुसार विषयगत परियोजना के विरुद्ध रामगढ़ वन प्रमंडल अन्तर्गत मौजा-बोंगावार, प्लॉट संख्या-170पी०, 166, 165पी० पर दस वर्षीय क्षतिपूरक वनरोपण एवं पीलर निर्माण का खर्च प्राक्कलन के अनुसार	10809100.00
2	शर्त संख्या-A.2 के तहत विषयगत परियोजना में प्रस्तावित 2.12 हे० वन भूमि का शुद्ध वर्तमान मूल्य की राशि (वनों का घनत्व-0.3) @9,57,780/-	20,30,494.00
	कुल	1,28,39,594.00

अतः अनुरोध है कि उपरोक्त विवरणी के अनुसार कुल 1,28,39,594/- (रुपये एक करोड़ अठाईस लाख उनचालिस हजार पाँच सौ चौरानम्बे) का चालान generate करते हुए [e-portal parivesh.nic.in](http://e-portal.parivesh.nic.in) के द्वारा कैम्पा लेखा खाता में जमा करते हुए इसकी सूचना इस कार्यालय में भी समर्पित करने की कृपा की जाय। साथ ही प्रथम चरण की स्वीकृति में लगाए गए सभी शर्तों

का पूर्ण अनुपालन करते हुए अनुपालन प्रतिवेदन में प्राधिकृत पदाधिकारी का हस्ताक्षर/मुहर सहित संघारित करते हुए परिवेश पोर्टल में Upload करते हुए आठ प्रति इस कार्यालय में समर्पित किया जाय ताकि प्रतिवेदन अग्रसारित किया जा सके।

अनुलग्नक:- यथोक्त।

आपका विश्वासी,

Hitish
11/3/25

वन प्रमंडल पदाधिकारी,
रामगढ़।

परियोजना का नाम :- Approach Road for Basantpur-Tapin Coking Coal Washery (2.12 हे०)

याजना का मान = जवकृच्छ्र बनाता है।

योजना का नाम - अवकृष्ट वनों का पारिस्थितिकी पुनर्स्थापना हेतु कार्य		
1. प्रक्षेत्र का नाम -	कुजूर प्रक्षेत्र	5 पीधों की संख्या प्रति हे - 1100
2. स्थल का नाम -	बागाबाग	6 घन प्रति मीटर - 120
3. स्थान एवं स्थान संख्या -	माण्डू-153	9 पीधों की दूरी :- 3m x 3m
4. प्लॉट संख्या -	170P, 166, 165P	10 कुल पीधों की संख्या - 4664
5. प्रारंभिक रकबा (है० म) -	5.42	11 घन की लम्बाई - 1200
		12 नेट रकबा (है० म) 4.24
		13 मजदूरी दर :- 465.75 रु प्रति मा 12

		13 मजदूरी दर :-				कुल 4.24 हे. कं लिए प्राकल्पित राशि				अनुसूक्ति	
ईकाईवार कार्य का विवरण		ईकाई	प्रति हे०/ईकाई								
क्र.सं.	विवरण		मानव दिवस	मजदूरी	सामग्री	योग	मानव दिवस	मजदूरी	सामग्री		योग
1	2		3	4	5	6	7	8	9	10	11
1	(क) अग्रिम कार्य (प्रथम वर्ष)										
2	स्वै एवं सीमांकन	हे०	3.00	1397.25	50.00	1447.25	12.72	5924.34	212.00	6136.34	
3	डाटो स्फार्ड	हे०	10.00	4657.50	0.00	4657.50	42.40	19747.80	0.00	19747.80	
4	धनी झाडा	हे०	10.00	4657.50	0.00	4657.50	42.40	19747.80	0.00	19747.80	
5	जोना का जल सहित उखाड़कर 10मी० दूरी तक सफाई कर जलान का कार्य		50.00	23287.50	14500.00	37787.50	212.00	98739.00	61480.00	160219.00	
6	पानी वार वार सिलम्बर-नवम्बर		35.00	16301.25	0.00	16301.25	148.40	69117.30	0.00	69117.30	
7	दुमरी वार दिसम्बर-फरवरी										
8	धनी झाडा			15826.00	23739.00	39565.00	0.00	158260.00	237390.00	395650.00	
9	कटीला तार 4point 2ply 12wg, 15cm apart 82.5 ल० प्रति कि०मी० (जी०एस०टी० सर्टिफाई Item No.31/M215) की दर स 144.05क०जी (7 लाईन एव 2 क्रॉस)			0.00	11933.63	11933.63	0.00	0.00	119336.30	119336.30	
10	कटीला तार का खींचना सीधा करन रखल उपादे लगाने का कार्य सहित		3.81	0.00	0.00	0.00	38.10	17745.08	0.00	17745.08	
11	अगर सीटी फील्ड एव कटीले तार की कार्य स्थल तक दूलाई (31+32 का 15 प्रतिशत)			0.00	7724.79	7724.79	0.00	0.00	77247.90	77247.90	
12	धनी स पी०पी०सी० जाली, वास इत्यादि से फर्निचर का सुरिकरण (जमीन स 2 फीट उचा)	LS		0.00	8146.28	8146.28	0.00	0.00	81462.80	81462.80	
13	मृदा कार्य पीछा लगाने हेतु (60cm x 60cm x 60cm) आकार का मददा बनाना @0.17 मानव दिवस प्रति मददा		187.00	87095.25	0.00	87095.25	792.88	369283.86	0.00	369283.86	
14	मृदा मद कर सफाई कार्य कन्दूर टयिंग-120 कन्दूर टयिंग सट्टा 5Mx0.30Mx0.30M का मददा लगाना त्रिभुज का दूरी 2 मी स 3मी हा तथा इतकी मिट्टी का मोचे ढाल पर 0.15 मी हा तथा इतकी मिट्टी का मोचे ढाल पर 0.15 मी हा का जो कर सट्टा बनाना		55.00	25616.25	0.00	25616.25	233.20	108612.90	0.00	108612.90	
15	मिन्ड रिटिंगन डैम चेकडेम रिटिंगन एव बरद बरद दो बरद एव कायन नियन्त्रण कार्य झाडा		25.00	11643.75	0.00	11643.75	106.00	49369.50	0.00	49369.50	
16	मट्टी प्लेनिंग		10.00	4657.50	0.00	4657.50	42.40	19747.80	0.00	19747.80	
17	लेबर सेस मजदूरी का 1 प्रतिशत				1904.82	1904.82	0.00	0.00	9165.48	9165.48	
18	योग :-		378.81	190482.25	67998.52	258480.77	1628.10	916547.58	586294.48	1502842.05	
19	विविध कार्य (अनुप्रवण मुल्यांकन छायांकन प्रसार प्रसार मृदण एव सकलन आदि) कुल राशि का 7 प्रतिशत		0.00	0.00	0.00	0.00	0.00	0.00	105198.94	105198.94	
20	प्रवण किन्दु कार्य (प्रथम एवं द्वितीय वर्ष का 15 प्रतिशत)		0.00	0.00	0.00	0.00	0.00	0.00	574900.00	574900.00	
21	प्रवण रात नया								30000.00	30000.00	
22	2000 घण्टे का निर्माण का कुल प्राकल्पित राशि @4/00/Pillar =								940000.00	940000.00	
23	चेकडेम का निर्माण								900000.00	900000.00	
24	साइडो का निर्माण								100000.00	100000.00	
25	सीएसटी 18 प्रतिशत (सामग्री पर)								57948.34	57948.34	
26	कुल अग्रिम कार्य योग :-		378.81	190482.25	67998.52	258480.77	1628.10	916547.58	3294341.75	4210889.33	

मजदूरी दर 15 प्रतिशत बढ़ाकर									
(ख)	समापन कार्य (द्वितीय वर्ष)							535.61	प्रति मीटर
1	फाँद (न्यूनतम 6मीटर) क्रम एवं परिवहन 20 प्रतिशत अतिरिक्त सहित (130x@105 रु प्रति पीछा)	0.00	0.00	138600.00	138600.00	0.00	0.00	587664.00	587664.00
2	उत्थापन (0.0225 मानव दिवस प्रति पीछा)	24.75	13256.35	0.00	13256.35	104.94	56206.91	0.00	56206.91
3	फाँद का सहाय्य देने हेतु खुदा का उपयोग करना (0.02 माण्डि0 प्रति पीछा एवं 10.00 रु0 सामग्री प्रति पीछा)	22.00	11783.42	11000.00	22783.42	93.28	49961.79	46641.14	49961.79
4	तीन कोइली एवं निकोनी (0.06 मानव दिवस प्रति पीछा)	66.00	35350.26	0.00	35350.26	279.84	149885.10	0.00	149885.10
5	फाँद की सुरक्षा	275.00	147292.75	0.00	147292.75	275.00	147292.75	0.00	147292.75
6	सामग्री (बीज उर्वरक खाद मसामन आदि) (4.5 रु0 प्रति पीछा)	0.00	0.00	4950.00	4950.00	0.00	0.00	20988.00	20988.00
7	फाँद का प्रतिस्थापन (10 प्रतिशत पीछे = 110 पीछे/ह० प्रति पीछा माण्डि0 = 0.033 एवं प्रति पीछा सामग्री = 105/रु0)	0.00	0.00	22000.00	22000.00	0.00	0.00	93280.00	93280.00
8	पटवन आवश्यकतानुसार (0.09 मानव दिवस प्रति पीछा)	99.00	53025.39	0.00	53025.39	419.76	224827.65	0.00	224827.65
9	बोरिंग + मशीन + टैंक	LS						300000.00	300000.00
10	टैंकर से पटवन/पटवन के लिए डीजल आदि खर्च	LS						48000.00	48000.00
11	टैंकर से मजदूरी का 1 प्रतिशत			2607.08	2607.08	0.00	0.00	6281.74	6281.74
	योग :-	486.75	260708.17	179157.08	439865.25	1172.82	628174.12	1102853.74	1731027.86
12	विविध कार्य (अनुप्रवण मृत्याकन छायाकन, प्रसार प्रसार मृदण एवं सकलन आदि) कुल राशि का 7 प्रतिशत	0.00	0.00	0.00	0.00	0.00	0.00	121171.95	121171.95
13	जी एस टी 18 प्रतिशत							214042.88	214042.88
	कुल समापन कार्य योग :-	486.75	260708.17	179157.08	439865.25	1172.82	628174.12	1438068.58	2066242.70
मजदूरी दर 15 प्रतिशत बढ़ाकर									
(ग)	सम्पोषण कार्य (तृतीय वर्ष)							615.95	प्रति मीटर
1	फाँद कोइली एवं निकोनी (0.04 मानव दिवस प्रति पीछा)	44.00	27101.80	0.00	27101.80	186.56	114911.63	0.00	114911.63
2	सामग्री (बीज उर्वरक कम्पोस्ट खाद डी ए पी / यूरिया / जैविक किटनाशक आदि) (4.5 रु0 प्रति पीछा)	0.00	0.00	4950.00	4950.00	0.00	0.00	20988.00	20988.00
3	फाँद की सुरक्षा	365.00	224821.75	0.00	224821.75	365.00	224821.75	0.00	224821.75
4	धरातल मरम्मत (5% of Construction)	0.00	0.00	3288.32	3288.32	0.00	0.00	32883.20	32883.20
5	पटवन आवश्यकतानुसार (0.135 मानव दिवस प्रति पीछा)	148.50	91468.58	0.00	91468.58	629.64	387826.76	0.00	387826.76
6	मृत् पीछे का प्रतिस्थापन (10 प्रतिशत पीछे = 110 पीछे/ह० प्रति पीछा माण्डि0 = 0.033 एवं प्रति पीछा सामग्री = 105/रु0)	36.30	22358.99	11550.00	33908.99	153.91	94802.10	48972.00	143774.10
7	टैंकर से मजदूरी का 1 प्रतिशत			3657.51	3657.51	0.00	0.00	8223.62	8223.62
	योग :-	593.80	365751.11	23445.83	389196.94	1335.11	822362.24	111066.82	933429.06
8	विविध कार्य (अनुप्रवण मृत्याकन छायाकन, प्रसार प्रसार मृदण एवं सकलन आदि) कुल राशि का 7 प्रतिशत	0.00	0.00	0.00	0.00	0.00	0.00	65340.03	65340.03
9	जी एस टी 18 प्रतिशत							23529.61	23529.61
	कुल तृतीय वर्ष योग :-	593.80	365751.11	23445.83	389196.94	1335.11	822362.24	199936.47	1022298.71
मजदूरी दर 15 प्रतिशत बढ़ाकर									
(घ)	सम्पोषण कार्य (चतुर्थ वर्ष)							708.35	प्रति मीटर
1	फाँद कोइली एवं निकोनी (0.04 मानव दिवस प्रति पीछा)	44.00	31167.40	0.00	31167.40	186.56	132149.78	0.00	132149.78
2	सामग्री (बीज उर्वरक कम्पोस्ट खाद डी ए पी / यूरिया / जैविक किटनाशक आदि) (4.5 रु0 प्रति पीछा)	0.00	0.00	4950.00	4950.00	0.00	0.00	20988.00	20988.00
3	फाँद की सुरक्षा (मानव दिवस प्रति माण्डि0)	365.00	258547.75	0.00	258547.75	365.00	258547.75	0.00	258547.75
4	मृत् पीछे का प्रतिस्थापन (75 पीछे/ह० प्रति पीछा माण्डि0 = 0.06 एवं प्रति पीछा सामग्री = 105/रु0)	4.50	3187.58	7875.00	11062.58	19.08	13515.32	33300.00	46005.32
5	पटवन आवश्यकतानुसार (0.045 मानव दिवस प्रति पीछा)	49.50	35063.33	0.00	35063.33	209.88	148668.50	0.00	148668.50
6	टैंकर से मजदूरी का 1 प्रतिशत			3279.66	3279.66	0.00	0.00	5528.81	5528.81
	योग :-	463.00	327966.05	16104.66	344070.71	780.52	552881.34	59906.81	612788.16
7	विविध कार्य (अनुप्रवण मृत्याकन छायाकन, प्रसार प्रसार मृदण एवं सकलन आदि) कुल राशि का 7 प्रतिशत	0.00	0.00	0.00	0.00	0.00	0.00	42895.17	42895.17
8	जी एस टी 18 प्रतिशत							12075.55	12075.55
	कुल चतुर्थ वर्ष योग :-	463.00	327966.05	16104.66	344070.71	780.52	552881.34	115777.53	668658.87

मजदूरी दर 15 प्रतिशत बढ़ाकर

814.60

रु प्रति मादि

क्र	विवरण कार्य (प्रथम वर्ष)	22.00	17921.20	0.00	17921.20	93.28	75985.89	0.00	75985.89
1	एड / ओडनी एन निकोनी (0.02 मानव दिवस प्रति पीछा)	0.00	0.00	4950.00	4950.00	0.00	0.00	20988.00	20988.00
2	सम्पादन कार्य (प्रथम वर्ष)	365.00	29732.00	0.00	29732.00	365.00	29732.00	0.00	29732.00
3	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	3.00	2443.80	5250.00	7693.80	12.72	10361.71	22260.00	32621.71
4	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	0.00	0.00	3288.32	3288.32	0.00	0.00	32883.20	32883.20
5	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	0.00	0.00	3176.94	3176.94	0.00	0.00	3836.77	3836.77
6	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	390.00	317694.00	16665.26	334359.26	471.00	383676.60	79967.97	463644.57
7	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	0.00	0.00	0.00	0.00	0.00	0.00	32455.12	32455.12
8	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	0.00	0.00	0.00	0.00	0.00	0.00	16399.39	16399.39
9	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	390.00	317694.00	16665.26	334359.26	471.00	383676.60	128822.47	512499.07
10	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	390.00	317694.00	16665.26	334359.26	471.00	383676.60	936.79	341928.35
11	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	341928.35	0.00	341928.35	365.00	341928.35	0.00	341928.35
12	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	341928.35	3419.28	3419.28	0.00	0.00	3419.28	3419.28
13	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	341928.35	3419.28	345347.63	365.00	341928.35	3419.28	345347.63
14	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	393218.15	0.00	393218.15	365.00	393218.15	0.00	393218.15
15	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	393218.15	3932.18	3932.18	0.00	0.00	3932.18	3932.18
16	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	393218.15	3932.18	397150.33	365.00	393218.15	3932.18	397150.33
17	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	452198.50	0.00	452198.50	365.00	452198.50	0.00	452198.50
18	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	452198.50	4521.99	4521.99	0.00	0.00	4521.99	4521.99
19	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	452198.50	4521.99	456720.49	365.00	452198.50	4521.99	456720.49
20	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	520030.10	0.00	520030.10	365.00	520030.10	0.00	520030.10
21	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	520030.10	5200.30	5200.30	0.00	0.00	5200.30	5200.30
22	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	520030.10	5200.30	525230.40	365.00	520030.10	5200.30	525230.40
23	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	598034.25	0.00	598034.25	365.00	598034.25	0.00	598034.25
24	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	598034.25	5980.34	5980.34	0.00	0.00	5980.34	5980.34
25	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	365.00	598034.25	5980.34	604014.59	365.00	598034.25	5980.34	604014.59
26	सम्पादन कार्य (प्रथम वर्ष) (मानव दिवस प्रति साईड)	4137.36	3768010.93	326425.45	4094436.38	7212.55	5609051.22	5200000.90	10809052.12
27	सकल योग :-						Or Say	10809100.00	

अपर प्रभान मुख्य वन संरक्षक, विकास, आरखण्ड, रांची के कार्यालय आदेश संख्या-21/जापाक-625 दिनांक 08.08.2024 के अनुसार प्रावकलन तैयार किया गया है।

2. द्वितीय वर्ष से दशम वर्ष तक प्रति वर्ष 15 प्रतिशत की वार्षिक अनुमानित मजदूरी वृद्धि के साथ प्रावकलन तैयार किया गया है।

क्र	कार्य एवं वर्ष	मजदूरी	सामग्री	कुल राशि
1	अग्रिम कार्य (प्रथम वर्ष 2025-26)	916547.58	3294341.75	4210889.33
2	सम्पादन कार्य (द्वितीय वर्ष 2026-27)	628174.12	1438068.58	2066242.70
3	सम्पादन कार्य (तृतीय वर्ष 2027-28)	822362.24	199936.47	1022298.71
4	सम्पादन कार्य (चतुर्थ वर्ष 2028-29)	552881.34	115777.53	668658.87
5	सम्पादन कार्य (पंचम वर्ष 2029-30)	383676.60	128822.47	512499.07
6	सम्पादन कार्य (षष्ठम वर्ष 2030-31)	341928.35	3419.28	345347.63
7	सम्पादन कार्य (सप्तम वर्ष 2031-32)	393218.15	3932.18	397150.33
8	सम्पादन कार्य (अष्टम वर्ष 2032-33)	452198.50	4521.99	456720.49
9	सम्पादन कार्य (नवम वर्ष 2033-34)	520030.10	5200.30	525230.40
10	सम्पादन कार्य (दशम वर्ष 2034-35)	598034.25	5980.34	604014.59
11	सकल योग :-	5609051.22	5200000.90	10809052.12

Or Say

10809100.00

Handwritten Signature
वन प्रमंडल पदाधिकारी
रामगढ़

Adhoc CAMPA Levies format of Basantpur-Tapin Coking Coal Washery(2.12 Ha)

1	Name of Regional Office						Regional Office Bokaro	
2	State/District/Forest Division to which the proposal relates						Jharkhand/Ramgarh/Ramgarh	
3	Name of User Agency, Name of Proposal						Central Coalfields Limited, Basantpur-Tapin Coking Coal Washery	
4	Nature of Category of Proposal						Linear	
5	Proposal No.						FP/JH/Road/46818/2020/147	
6	Extent of Forest Area involved						2.12 Ha.	
7	Whether original or extension						Original (land acquired under CBA Act)	
8	If the extension of lease, please clarify if proposal involves additional forest area and if so specify						NA	
9	Date of 1 st Stage clearance						03.03.2025	
10	Extent of CAMPA Charges, headwise viz.							
	a) Compensatory afforestation						Rs. 1,08,09,100.00	
	b) Penal compensatory afforestation							
	c) Catchment area treatment							
	d) Wildlife management plan							
	e) Additional charges for diversion of area falling under notified/protected area							
	f) Net present value						Rs. 20,30,494.00	
	g) Safety Zone (Afforestation Cost of 1.5 times of Safety Zone Area + Safety Zone Creation, fencing, Maintenance)							
	h) Any other charges/levies (please specify) (Forest Produce + Cess + Tax)							
	Total =						Rs. 1,28,39,594.00	
11	If the payment made through challan or otherwise in case of online payment, details of challan							
12	Details of deposits							
S. No.	Type of Deposit (NPV/CA/WM P/Other s) Specify	Whether (RTGS/ DD/NEFT) (Specify)	UTR/DD No.	Amount Deposit (Rs.)	Dated of Deposit	Name of Bank from which amount transferred to Account of CAF	Bank Account of CAF managed by CAMPA in which fund deposited.	
1.	CA: 1,08,09,100.00 NPV: 20,30,494.00 Total = 1,28,39,594.00	UTR	ICICR22025032808579882	Rs. 1,28,39,594.00	28.03.2025	ICICI bank Ltd -Ratu Road Ranchi -834001 017505009227	Jharkhand Campa A/c no. 150726146818909 IFSC Code-UBIN0996335 Union Bank of India	
			Total	Rs. 1,28,39,594.00				

28/3/25
Nodal Officer
Basantpur Tapin
Coking Coal Washery



**OFFICE OF THE DIVISIONAL FOREST OFFICER,
RAMGARH FOREST DIVISION RAMGARH**

(Near BRL Gate, Ranchi Road, PO-Marar, District-Ramgarh, Pin-829117)

Email id – dfo-ramgarh@gov.in Mob-8987790306 Land Line No-06553-296061

Letter No- 868

Date:- 29.03.2025

To,

Nodal Officer,
Basantpur Tapin Coking Coal,
Washery, Ramgarh.

Subject: Approval of Muck Disposal Plan of Approach road for Basantpur-Tapin coking coal washery of M/s CCL 2.12 Ha- reg.

Ref: 1. Your Letter No- GM(h)/P&P/BTW/Forest/2025/192 date 24.03.2025

Sir,

Vide letter referenced above you have submitted a muck disposal plan in compliance of condition No-A-4 stipulated in stage-I with respect to approach road for Basatpur-Tapin coking coal washery FC Act proposal.

The submitted muck disposal plan which indicates complete re-use of excavated material, is approved with following conditions: -

1. Royalty should be paid as per prevalent rules of the State.
2. After project completion, no rock/muck/earth material should be left unattended.
3. During Construction please, no rock/muck should be put anywhere on forest land.
4. No temporary disposal of muck should happen in forest area than what has been applied for.

Yours Sincerely,

Hitish
29/3/25

Divisional Forest Officer,
Ramgarh

Memo No:- 868

Date:- 29.03.2025

Copy: 1. District Mining Officer, Ramgarh for information.

Hitish
29/3/25

Divisional Forest Officer
Ramgarh

FORM -I

(For linear projects)

Government of Jharkhand

Office of the Deputy Commissioner Ramgarh

Memo.

Date/2021

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MoEF), Government of India's letter No.11-9/98-FC (pt.) dated 3rd August 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Right) Act, 2006 ('FRA', for short) on the forest land proposed to be diverted for non-forest purposes, it is certified that 5.25 Acres of G.M JJ/Forest Land proposed to be diverted in favour of Basantpur & Tapin coking coal Vasari M/s Central coal field Limited for Access Road (purpose for diversion of forest land/JJ land) in Ramgarh district falls within jurisdiction of Pachanda & Basantpur village(s) in Ramgarh tehsils.

It is further certified that :

Sl. No.	Village Name	Thana No.	Khata Number	Plot Number	Land/Area in Acres.		Total Area (in Acres.)
					Notified Forest	G.M.JJ	
1	2	3	4	5	6	7	8
1.	Pachanda	107	01	01		2.00	2.00
				119		1.73	1.73
	Basantpur	105	71	86		1.52	1.52
Total						5.25	5.25 Acr.

- (a) There complete process for identification and settlement of rights under the FRA has been carried out for the entire 5.25 Acre Jangal Jhari Land proposed to be diversion. A copy of records of all consultations and Meetings of the Forest Rights Committees, Gram Sabha, Sub-Divisional Level Committee (s) and the District Level Committee are enclosed as Annexure A to C
- (b) The diversion of forest land for facilities managed by the Government as required under section 3(2) of the FRA have been completed and the Gram Sabha have given their consent to it,
- (c) The proposal does not involve recognized rights of Primitive Tribal Groups and Pre-Agricultural Communities.

28/3/25
Nodal Officer
Basantpur Tapin
Coking Coal Washery

28/3/25
Sanjeev Kumar
Nodal Officer
Basantpur Tapin
Coking Coal Washery

Sd/-
Deputy Commissioner
Ramgarh

Memo No. 595/W.R. Dated. 01.09.2021

Copy To:

1. Additional Chief Secretary Revenue and Land Reform Dept. Government of Jharkhand Ranchi for Information & necessary action.
2. Secretary Welfare Dept. Government of Jharkhand Ranchi for Information & necessary action.
3. Commissioner North Chotanagpur Division Hazaribag for Information & necessary action.
4. Divisional Forest Officer Ramgarh for Information & necessary action.
5. Additional Collector, Ramgarh for Information & necessary action.
6. SDM Ramgarh. for Information & necessary action.
7. Circle Officer, Mandu for Information & necessary action.
8. General Manager, Hazaribag Area Charhi, Mandu for necessary action.

8/8
01.09.2021
Deputy Commissioner
Ramgarh

Sanjeev Kumar
Nodal Officer
Basantpur Tapin
Coking Coal Washery

Nodal Officer
Basantpur Tapin
Coking Coal Washery



उपायुक्त-सह-जिला दण्डाधिकारी का कार्यालय, रामगढ़।

(सामान्य शाखा)

—: अनापत्ति प्रमाण-पत्र :-

महाप्रबंधक, हजारीबाग क्षेत्र, बरही सी०सी०एल० का पत्रांक-GM (H)/P&P/2021-22/437, दिनांक- 20.12.2021 के आलोक में रामगढ़ जिला के माण्डू अंचल अन्तर्गत ग्राम पंचन्या एवं बसंतपुर में सी०सी०एल०, हजारीबाग क्षेत्र, बरही अन्तर्गत बसंतपुर तापिन कोकिंग कोल वाशरी हेतु चिह्नित गैरमजरूआ खारा जंगल-झाड़ी भूमि रकबा-5.25 एकड़ हेतु Deemed Forest भूमि (जंगल-झाड़ी) के संबंध में अनापत्ति प्रमाण-पत्र। गैरमजरूआ (जंगल-झाड़ी) भूमि जो निम्नवत है :-

क्र० स०	अंचल का नाम	मोजा	प्लान न०	खाला न०	प्लॉट न०	रकबा (एकड़ में)	किस्म जमीन
1	माण्डू	पंचन्या	107	01	01	2.00	जंगल-झाड़ी
					119	1.73	
2		बसंतपुर	105	71	86	1.52	
कुल रकबा						5.25	

कुल रकबा-5.25 एकड़ में सन्निहित है तथा अधिसूचित वन भूमि तथा संरक्षित वन भूमि आदि से बाहर है, के अपयोजन हेतु माननीय सर्वोच्च न्यायालय द्वारा पारित आदेश के आलोक में प्रयोक्ता एजेन्सी द्वारा वन संरक्षण अधिनियम 1980 के तहत पर्यावरण एवं वन मंत्रालय, भारत सरकार से पूर्वानुमति प्राप्त कर ली जाय। पूर्वानुमति प्राप्त होने के पश्चात इसके विधिवत हस्तान्तरण हेतु प्रयोक्ता एजेन्सी द्वारा गैरमजरूआ भूमि के हस्तान्तरण के प्रस्ताव की प्रक्रिया का तरह परताव रागर्षित किया जाएगा। गैरमजरूआ जंगल-झाड़ी (Deemed Forest) भूमि के सम्पूर्ण हस्तान्तरण/लीज बदोवसी हेतु राजस्व एवं भूमि सुधार विभाग द्वारा राज्यादेश निर्गत किया जाएगा।

र०/ -

उपायुक्त,
रामगढ़।

आपाक : 225 / रा०.

रामगढ़, दिनांक 12/1/2022

- प्रतिलिपि - अंचल अधिकारी, माण्डू को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित।
 प्रतिलिपि - महाप्रबंधक, हजारीबाग क्षेत्र, बरही सी०सी०एल० को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित।
 प्रतिलिपि - अनुमण्डल पदाधिकारी, रामगढ़ को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित।
 प्रतिलिपि - जिला सूचना एवं विज्ञान पदाधिकारी, रामगढ़ को जिला कार्यालय पर अपलोड करने हेतु सूचनार्थ प्रेषित।
 प्रतिलिपि - वन प्रमण्डल पदाधिकारी, रामगढ़ को सूचना एवं आवश्यक कार्रवाई हेतु प्रेषित।
 प्रतिलिपि - आयुक्त, अंचल, हजारीबाग क्षेत्र, बरही सी०सी०एल० को सूचना प्रेषित।
 प्रतिलिपि - सरकार के संयुक्त सचिव, राजस्व, भू-सूचना एवं भूमि सुधार विभाग, जयपुर को सूचना प्रेषित।

ShamirC Line 28

28/3/22
Nodal Officer
Basantpur Tapin
Coking Coal Washery
Sanjeev Kumar
Nodal Office,
Basantpur Tapin
Coking Coal Washery

प्रमाणित
11/01/2022
उपायुक्त,
रामगढ़।

आज दिनांक 12/09/2019 को, गहनपुर ग्राम मंदिर के प्रांगण में आंचला विपरीत भाग के हाथों के सं-

19वें दिनांक 08/09/2019 के कालोफ में बना विपरीत समिति एवं उपायों के द्वारा काम समाप्त किया गया

किया गया जिसकी अध्यक्षता गुरुजीया, पंचायत की किया। उपाय समाप्त में उपाय पंचायत के गहनपुर लोक

पुर्वा पत्र (Nepal Bank) निम्नांक को लेकर समाप्त किया पंचायत, समाप्त किया, लोक, इत्यादि। समाप्त किया

किया गया। जिसके निम्नलिखित पदाधिकारी एवं समिति उपस्थित हुए -

(Signature)
12/09/2019

अध्यक्ष का हस्ताक्षर

उपायों का हस्ताक्षर :-

- ① Baldev Mahato
- ② Manoj Kumar
- ③ गणेश महर्षी
- ④ विमान महर्षी
- ⑤ अनन्त महर्षी
- ⑥ चन्द्रमणि महर्षी
- ⑦ प्रभु महर्षी
- ⑧ पद्म महर्षी
- ⑨ विमान महर्षी
- ⑩ Gaurdev Mahato
- ⑪ Gaurdev Mahato
- ⑫ Vijay Kumar
- ⑬ Gaurdev Mahato
- ⑭ Gaurdev Mahato
- ⑮ Gaurdev Mahato
- ⑯ Gaurdev Mahato
- ⑰ Gaurdev Mahato

Coking Coal Washery

Coking Coal Washery

17) Rajendra Mahto

18) Jagdishwar Mahto

(19) Rajendra Mahto

(20) R. S. Mahto

(21) Enam Mahto

(22) Lalchand Mahto

(23) Prasad Mahto

(24) Dharam Mahto

(25) K. S. Mahto

(26) K. S. Mahto

(27) Prasad Mahto

(28) R. S. Mahto

(29) Suresh Mahto

(30) Jagdish Mahto

(31) Prasad Mahto

(32) S. S. Mahto

(33) Prasad Mahto

(34) Prasad Mahto

(35) Prasad Mahto

(36) Prasad Mahto

(37) Prasad Mahto

(38) Prasad Mahto

(39) Prasad Mahto

(40) Prasad Mahto (Prasad Mahto)

(41) Prasad Mahto (Prasad Mahto)

(42) Prasad Mahto

Noda, Orissa
Basanpur
Coking Coal Washery

Sanjay Kumar
Prasad Mahto
Basanpur
Coking Coal Washery

ग्राम सीमा के द्वारा निवास किया जाता

८. निम्न सिद्धियों के निरूपण करें -

~~पञ्चांग के रखा हुआ है, [Date 4.10-12]~~

11247

पत्र अनामिका प्रसादा पर दी जा रही है

[illegible]

१. संस्कृत २. उत्तराखण्ड ३. संस्कृत ४. संस्कृत ५. संस्कृत ६. संस्कृत ७. संस्कृत ८. संस्कृत ९. संस्कृत १०. संस्कृत

ॐ नमो भगवते वासुदेवाय ॥ श्रीगणेशाय नमः ॥

(30) दादू की कविता पढ़ो

③ सत्य का निमित्त मैं जानूँ कि मैं जीवूँ

B. Kishore and ^{12/9/19} 12/9/19

m. P. SINGHA, Lecturer in English

② विजय कुमार Kumar 12/11/18

13) श्री गंगाराम पन्ना, नाण्डू (जि.)

4) கனம் அமைச்சர் சார் அமைச்சர் அலுவலகம் (கனம்) இ

[illegible]

श्रीरामजन्मश्री जमीन पर श्रेष्ठों द्वारा आवश्यक कागजात

प्रस्तुत करने के उपरान्त श्री. श्री. एल. के. विमलावतार

मीकरी एवं सुआवना किया जाएगा। उसी आदेश पर

आशीर्वादाः सारा-अनापत्तिः प्रसादात् त्वेति वा-सद्वर्गात्

अनंत

~~G. B. M.~~
~~B. O. M. M. M.~~

॥ श्रीगणेशाय नमः ॥

518427

Dayal Kumar, गण प्रबन्धक -

भारत-कलाल (पं. से. मा. व. वि.)

1057-12-11-80
Kampha Meunja

Emil Mahto

Model
Basal
Cokir

वि. सं. ०१

राजेश्वर महाराज
संगलाल महाराज

गणेश महाराज
महेश्वर महाराज

बालकृष्ण महाराज

नारायण महाराज

राम महाराज

सूर्य महाराज

वि. सं. ०२ (अलग अलग दिवसों पर मिलने वाले)

हरामनाथ महाराज

हनुमान महाराज

लालचंद महाराज

बलराम महाराज

धर्मेश्वर महाराज

गुरुदास महाराज

सूर्य महाराज

महेश्वर महाराज

गुरुदास महाराज

वि. सं. ०३

सूर्य महाराज

जयलाल महाराज

बलराम महाराज

महेश्वर महाराज

गुरुदास महाराज

Charan Mahara

28/2/23

Nodal Officer
Basantpur
Coking Coal Washery

Basantpur Nodal Officer
Basantpur
Coking Coal Washery

Gauram Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

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Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Prasad P. Mahato

Handwritten signature

Model Officer
Basantpur
Coking Coal Washery

Basantpur
Coking Coal Washery

Page No. 1

2. 1/2/21

3. 1/2/21

4. 1/2/21

Sanjeev Kumar
Nodal Officer
Basantpur Tapin
Coking Coal Washery

1/2/21
Nodal Officer
Basantpur Tapin
Coking Coal Washery

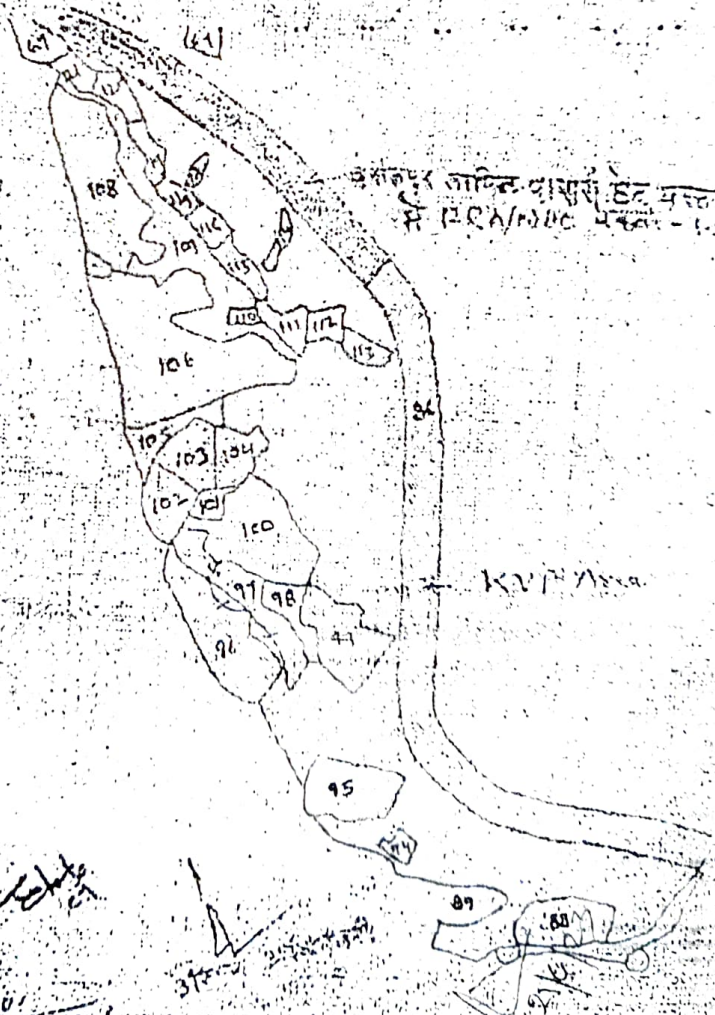
मीजा - बसंतपुर प/० 3
 धाना नम्बर - 105
 धाना - मावड
 परगना - बसंतपुर
 जिला - रामगढ़
 पैमाना 1:6" = 1 मील
 संकेत

 - KVP Area
 - Proposed Area for diversion 1.52 Acre = 0.62 Ha.

खाना
 71

लोट
 86

खाना
 0.62 हेक्टर = 1.52 एकर



बसंतपुर जामिन दाखल हेतु मजदारी
 मं 12/28/1990 पत्र - 1.52 एकर

[Handwritten signatures and stamps]
 G. B. [unclear]
 P. [unclear]

[Handwritten signature]
 Nodal Officer
 Basantpur Taluk

Coking Coal Washery
 Basantpur Taluk
 Coking Coal Washery

27

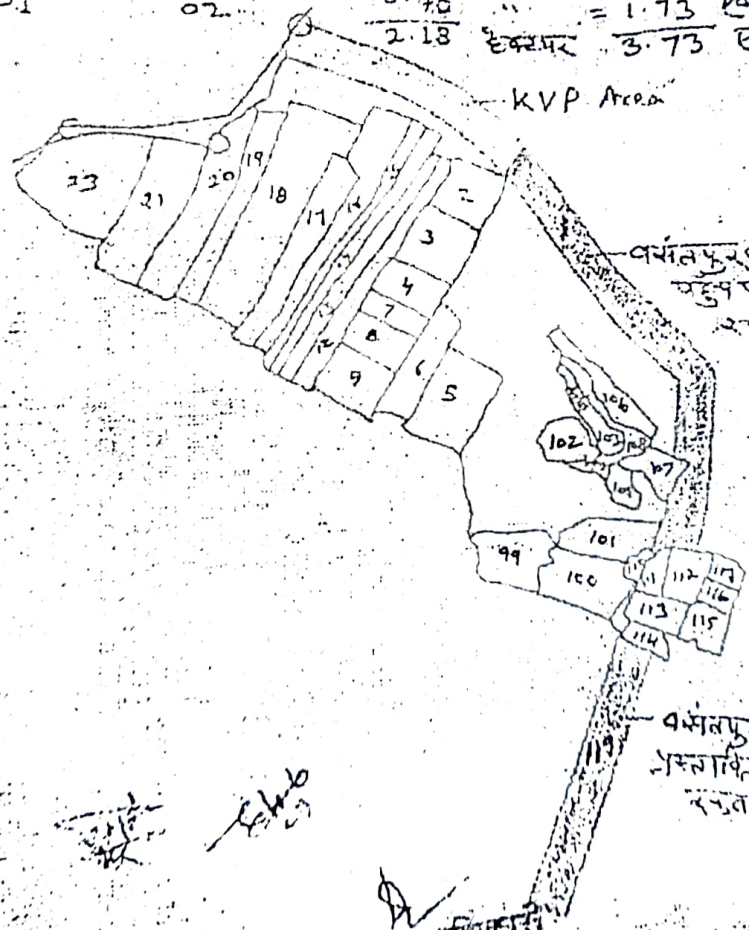
मोजा - पचन्डा
 धाना-म्बर - 107
 धाना - माड्डु
 पागन - वमनवे
 जिला - रामगढ़
 चेमाना - 16" = 1मील
 खंका -

खाना
 01
 01

KVP Area
 Proposal
 खाना

Proposed Area for diversion Plot no. 1-2.00 Acre
 Plot no. 113-1.73 Acre

119 - 0.81 हेक्टर = 2.00 एकर
 07 - 0.70 " = 1.73 एकर
 2.18 हेक्टर = 3.73 एकर



वसंतपुर नागिन बागरी हे. एकर
 वसंतपुर नागिन बागरी हे. एकर
 2.00 Acre

वसंतपुर नागिन बागरी हे. एकर
 वसंतपुर नागिन बागरी हे. एकर
 1.73 Acre

अखिल अधिकारी
 ग. म. म. म.

Additional Officer
 Coking Coal Washery

Basant Kumar
 Additional Officer
 Coking Coal Washery

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL.)
**Nodal Officer, Basantpur-Tapin Coking
Coal Washery**
OFFICE OF THE GENERAL MANAGER
P.O.: CHARHI, DIST:-HAZARIBAGH
JHARKHAND-825336



Phone No.: (06546)232922
<http://centralcoalfields.com>
Email- btwashery@gmail.com
CIN-U10200JH1956GOI000581

ANNEXURE –A VI

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 7 of Para-A of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"Violation of any of these conditions will amount to violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and action would be taken as prescribed in para 1.16 of Chapter-1 of the Consolidated Guidelines of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 as issued by this Ministry's letter dated 29.12.2023"*.

Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
Basantpur Tapin
Coking Coal Washery

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL)
**Nodal Officer, Basantpur-Tapin Coking
Coal Washery**
OFFICE OF THE GENERAL MANAGER
P.O.:- CHARHI, DIST:-HAZARIBAGH
JHARKHAND-825336



Phone No.: (06546)232922
<http://centralcoalfields.in/>
Email- btwashery@gmail.com
CIN-U10200JH1956GOI000581

ANNEXURE – B I

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 1 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *“Legal status of the forest land shall remain unchanged”*.

28/3/25

**Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited**

*Nodal Officer
Basantpur Tapin
Coking Coal Washery*

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL)
**Nodal Officer, Basantpur-Tapin Coking
Coal Washery**
OFFICE OF THE GENERAL MANAGER
P.O.- CHARHI, DIST:-HAZARIBAGH
JHARKHAND-825336



Phone No.: (06546)232922
- <http://centralcoalfields.in>
Email- btwcochery@gmail.com
CIN-U10200JH1956GOI000581

ANNEXURE -B II

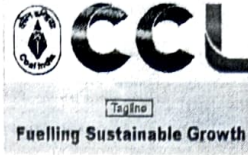
CERTIFICATE OF UNDERTAKING

In compliance to condition no. 1 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that "*State Forest Department may be requested to ensure plantation of a mixture of local native species and monoculture of any species, especially non-native species should be avoided.*"

Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
Basantpur Tapin
Coking Coal Washery

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL)
**Nodal Officer, Basantpur-Tapin Coking
Coal Washery**
OFFICE OF THE GENERAL MANAGER
P.O.:- CHARHI, DIST:-HAZARIBAGH
JHARKHAND-825336

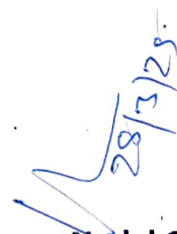


Phone No.: (06546)232922
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ANNEXURE – B III

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 3 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"Additional amount of the Net Present Value (NPV) of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall also be charged by the State Government from the user agency."*


Nodal Officer

**(Basantpur Tapin Washery)
Central Coalfields Limited**

**Nodal Officer
Basantpur Tapin
Coking Coal Washery**

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL)
Nodal Officer, Basantpur-Tapin Coking
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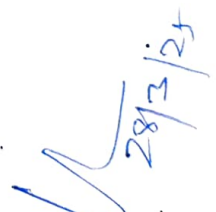


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ANNEXURE – B IV

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 4 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"User Agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision and direction of the State Forest Department; the cost of felling of trees shall be deposited by the User Agency with the State Forest Department."*


Nodal Officer

(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
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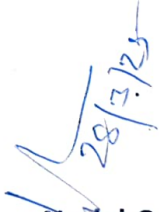


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ANNEXURE – B V

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 5 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer."*


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited
Nodal Officer
Basantpur Tapin
Coking Coal Washery

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ANNEXURE -B VI

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 6 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"The instant proposal is for Approach Road for Basantpur-Tapin Coking Washery. The total length of the road is 1.70 Km and right of the way 26 m only. Hence, the instant proposal is exempted to obtain Environment Clearance as per the provisions S.O. 2559 (E.) dated 22nd August, 2013 of Ministry of Environment and Forest, New Delhi."*


28/3/25

Nodal Officer
(BasantpurTapinWashery)
Central Coalfields Limited

Nodal Officer
Basantpur Tapin
Coking Coal Washery

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL)
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ANNEXURE – B VII

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 7 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"Wherever possible and technically feasible, the User Agency shall undertake appropriate afforestation or vegetation enrichment measures near the site(s) related to the area diverted under this approval, in consultation with the State Forest Department at the project cost."*

28/3/25

**Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited**

**Nodal Officer
Basantpur Tapin
Coking Coal Washery**

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL)
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ANNEXURE – B VIII

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 8 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"No additional or new path will be constructed inside the adjoining forest area for transportation of construction materials for execution of the project work."*


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

10/12/25
**Basantpur Tapin
Coking Coal Washery**

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL)
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ANNEXURE – B IX

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 9 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"The layout plan of the proposal shall not be changed without prior approval of Ministry of Environment, Forest & Climate Change."*


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
Basantpur Tapin
Coking Coal Washery

CENTRAL COALFIELDS LIMITED
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ANNEXURE – B XA

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 10 (a) of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that: *"No labour camp shall be established on the forest land."*


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
Basantpur Tapin
Coking Coal Washery

CENTRAL COALFIELDS LIMITED
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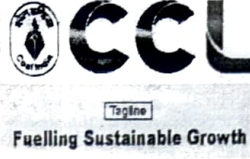
ANNEXURE – B XB

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 10 (b) of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"The User Agency shall provide alternate fuels preferably LPG to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas."*


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited
Nodal Officer
Basantpur Tapin
Coking Coal Washery

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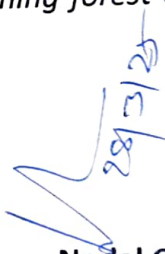


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ANNEXURE – B XC

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 10 (c) of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that "Earth or any other material shall not be brought from and debris resulting during construction shall not be disposed of in the adjoining forest area by the user agency."


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
Basantpur Tapin
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ANNEXURE – B XIA

CERTIFICATE OF UNDERTAKING

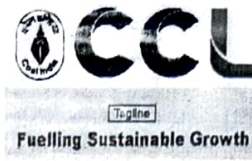
In compliance to condition no. 11 (a) of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that "The period of diversion under this approval shall be co-terminus with the period of the project life."

28/5/25

Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
Basantpur Tapin
Coking Coal Washery

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ANNEXURE – B XIB

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 11 (b) of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"The forest land shall not be used for any purpose other than that specified in the project proposal."*


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
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Coking Coal Washery

CENTRAL COALFIELDS LIMITED
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ANNEXURE – B XIC

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 11 (C) of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department, or person without prior approval of the Ministry of Environment, Forest & Climate Change."*


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited

Nodal Officer
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Coking Coal Washery

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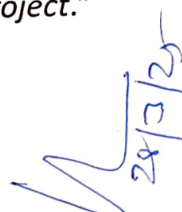


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ANNEXURE – B XII

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 12 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"The User Agency and the State Government shall ensure compliance to provisions of the Acts, Rules, Regulations, Guidelines, Hon'ble Court Order(s) and National Green Tribunal Order(s) pertaining to this project, if any, for the time in force, as applicable to the project."*


**Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited**

**Nodal Officer
Basantpur Tapin
Coking Coal Washery**

CENTRAL COALFIELDS LIMITED
(A Miniratna Subsidiary Company of CIL)
**Nodal Officer, Basantpur-Tapin Coking
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CIN-U10200JH1956GOI000581

ANNEXURE – B XIII

CERTIFICATE OF UNDERTAKING

In compliance to condition no. 12 of Para-B of the Ministry of Environment, Forest and Climate Change, letter no. FP/JH/Road/46818/2020/147 dated 03.03.2025, on behalf of Central Coalfields Limited (CCL) I hereby undertake to confirm that *"Any other condition that the Ministry of Environment, Forest & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forest & wildlife."*


Nodal Officer
(Basantpur Tapin Washery)
Central Coalfields Limited
Nodal Officer
Basantpur Tapin
Coking Coal Washery

MUCK DISPOSAL PLAN

FOR APPROACH ROAD FOR BASANTPUR TAPIN COKING COAL WASHERY (2.12 Ha)

(in Compliance with the Stage-I (In-Principle) FC condition vide
letter no. FP/JH/Road/46818/2020/147 Dated 07.03.2025)

Ramgarh, Jharkhand

March, 2025
CENTRAL COALFIELDS LIMITED
Hazaribagh Area, Charhi

INDEX

Chapter	Description	Page No.
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2.	Quantity of material to be excavated	2
3.	Muck disposal site	3
4.	Methodology of Muck disposal/Management	3
5.	Rehabilitation of Muck	4
6.	Monitoring & compliance	5
7.	Financial requirement	6

MUCK DISPOSAL & MANAGEMENT PLAN

1. INTRODUCTION

To setting up the proposed Basantpur- Tapin Coking Coal washery (4.0 MTPA) heavy machinery will be deployed at the project site. The present road to approach the site is very narrow and passing through densely populated village. Therefore an alternate route has been proposed for approaching the proposed site.

Total 4.37 Ha Land is required for the proposed road. Out of which 4.21 Ha land is GMJJ land and 0.16 Ha land is tenancy land.

The details of land is as under-

S. No.	Land required	Remarks
1	2.09 Ha (GMJJ land)	Already Stage-2 granted under Kotre Basantpur Pachmo OCP
2	2.12 Ha (GMJJ land)	Granted Stage-I as per FP/JH/Road/46818/2020/147 dated 07.07.2025.
3	0.16 Ha (Tenancy land)	
Total	4.37 Ha	

The Proposed Approach Road for Basantpur-Tapin Coking Coal Washery (4.0 MTPA) is located in village Basantpur District of Ramgarh in Jharkhand State.

Proposed Scheme will involve construction of PQC Road, RCC Drain, culvert, toe wall & stone pitching. The layout map of the proposed road is enclosed as Annexure A.

This Muck Disposal & Management Plan is crafted with the objective for the compliance of Condition no. 4 of Stage-I (in- principle) Forest Clearance issued by Regional Office, Ranchi of Ministry of Environment, Forest & Climate Change vide letter no. FP/JH/Road/46818/2020/147 dated 07.07.2025.

Condition no. 4 of Stage-I (in- principle) Forest Clearance is as follows:

“A Muck-Disposal Plan should be prepared by User Agency to ensure that the muck/wastage generated should be disposed of in proper manner. Such plan, duly approved by the concerned DFO, should be submitted to this office before soliciting working permission.”

2. QUANTITY OF MATERIAL TO BE EXCAVATED

The construction of proposed road would generate muck from excavation for various components such as Roadway cutting, excavation for drain and foundation of culvert & toe wall etc.

The total quantity of muck generated from excavation is about **21, 863.18 Cubic Meter** Of the total muck generated, is expected to be **fully utilized** as filling material for the construction.

Table 2.1. Muck to be generated from various components of the project

Part	Project Component	Total Quantity of Muck to be generated (Cum)
A	PQC Raod	19508
B	RCC Drain	1273
C	Culvert	396.18
D	Toe Wall & Stone Pitching	686
	Total Muck Generated	21863.18

Table 2.2 Total quantity of aggregate requirement

Part	Description	Quantity in M Cum
A.1.	Construction of embankment in PQC Road	56707
A.2.	Construction of subgrade earthen shoulder in PQC Road	2040
	Total filling material required	58747

Table 2.3. Utilization of generated Muck and Requirement of additional Quantity of filling material

S. No.	Description	Quantity in M Cum
1	Total quantum of muck generated from the project	21863.18
2	Total quantity of aggregate requirement	58747
3	Quantity of generated muck to be disposed	Nil
	Requirement of additional quantity of filling material	36883.82

3. MUCK DISPOSAL SITE

Requirement of Dumping Site

Based on the information provided in Table No. 2.1, 2.2, and 2.3, it can be observed that the total muck generated from the proposed road construction is 21,863.18 cubic meters. This muck will be fully utilized as filling material for the construction of the embankment in the PQC road.

Furthermore, an additional volume of 36,883.82 cubic meters of filling material will be required.

Therefore, no dumping site will be required for muck disposal.

4. Methodology of Muck disposal/Management

As the Quantity of generated muck to be disposed is **NIL**.

The main objectives of process of muck disposal/Management are:

- to ensure maximum utilization of muck for construction purpose;
- to protect and control soil erosion;
- to create greenery in muck area;
- to minimize damages due to spoilage of muck in project area.

The generated muck will be carried in dumper trucks, covered properly, in line with best practices. All precautionary measures will be followed during temporary stacking of muck. Proper precautions will be taken to ensure the dumpers are not over loaded. The transportation routes will be periodically sprinkled to reduce fugitive emission churned the mechanical disturbance caused by vehicular movement. Further, care will be taken to avoid stacking during windy conditions to avoid re-circulation of fine particulates and reduce the impacts of wind blown dust. As a standard practice, all drivers will be instructed to maintain vehicular speed ≤ 20 km/hr.

The spare capacity has been earmarked for temporary storage of usable muck, traffic movement of dumpers and lifters. The spoil from construction sites would be stacked at designated sites. All measures would be adopted to ensure that stacking of muck does not cause injury or inconvenience to the people or the property around the area. The general topography of the stacked area has a very mild slope.

Suitable embankment, RCC drain and culvert shall be constructed along the ROAD to avoid spillage of Muck to the adjacent water bodies. Loose muck would be compacted layer-wise. The compacted muck will be ultimately covered with fertile soil, and suitable plants will be planted adopting suitable bio- technological measures.

5. Rehabilitation of Muck

The Rehabilitation plan of muck utilized for Construction of embankment in PQC Road includes engineering and biological measures. The project authorities would ensure that embankment blend with natural landscape are developed with patches of greenery in and around it.

The following engineering and biological measures have been proposed for the management of Muck.

5.1 Engineering Measures

Muck to be generated shall be fully utilized for Construction of embankment in PQC Road and further additional **36883.82 cubic meter** quantity of filling material will be required. The additional filling material shall be excavated from the Kotre Basantpur Pachmo Project, for which royalty shall be paid to DMO, Ramgarh as follows:

Table: 5.1

S. No.	Item head	Amount (in Rs.)
i.	Royalty Charges (Rs. 38 per cubic meter for additional filling material)	14,01,585.16
ii.	NMET Charges (2% of royalty)	28,031.70
iii.	DMF (30% OF royalty)	4,20,475.54
	Total	18,50,092.40

Suitable embankment, RCC drain and culvert shall be constructed along the ROAD to avoid spillage of Muck to the adjacent water bodies.

i) RCC Drain

Total length of RCC Drain will be of 1200 m. The depth of the drain will be 0.75 m and width 0.60 m. A typical sketch of the RCC drain wall is given at **Annexure-A**

ii) Culvert

Two types of culvert have been provisioned. One 3m x 3m Box culvert and Three no.s of 2m x 2m culvert will be constructed to avoid spillage of Muck to the adjacent water bodies and to relieve drainage of ditches at the roadside, and to pass water under a road at natural drainage and stream crossings. A typical sketch of the Culvert is given at **Annexure-A**

iii) Toe wall and Stone Pithing

To stabilize slopes, prevent erosion, and ensure road stability by retaining Muck and preventing landslides or Muck movement Toe wall has been provisioned. A typical sketch of the toe wall is given at **Annexure-A**. In addition to this Stone pitching will also be provided for preventing erosion of Muck from run off water.

Table 2.5: Estimated Cost of Engineering Measures

S. No.	Particular	Cost in Rs.
1	RCC Drain (1200m)	47,25,215.87
2	Box Culvert (4 No.s)	60,28,390.42
3	Toe wall & Stone Pitching	91,95,045.76
	Total	1,99,48,652.05

5.2 Biological Measures

Vegetation cover controls the hydrological and mechanical effects on soils and slopes and helps to stabilize the loose soil. Accordingly, the muck utilized for embankment after proposed engineering measures as mentioned above, shall be treated with biological measures for the purpose of plantation.. The biological measures include the following:

i) Soil treatment

Muck on embankment of road is not considered to be nutrient rich as it is excavated from tunnels and other structures. In order to make it suitable for the plantation it will be provided bio treatment.

ii) Plantation

After the process of compaction and soil treatment, both side of the road will be available for the plantation. Appropriate local/native species shall be selected in consultation with the forest department. Grasses and herbaceous species would also be used in the inter space of tree and shrub species. They will help in providing the continuous chain of support in retaining debris, reinforcing soil and increasing the infiltration capacity of the area.

The estimated cost of these measures would be **Rs. 20.00 lakhs**. This cost includes the cost of turfing of slopes, preparation of ground, spreading of manure, transportation and carriage etc. It also includes the cost of fencing, irrigation, watch and ward, etc. (see Table 2.6).

6. MONITORING & COMPLIANCE

Following monitoring and conditions will be complied by project proponent while utilizing the Muck for the construction of Approach Road

- i) Each layer shall be rolled compacted.
- ii) A layer of soil shall be spread on top of it to make it suitable for plantation.
- iii) Prescribed norms of SPCB shall be followed.
- iv) All norms of Forest department, SPCB and MoEF&CC and their acts related to muck disposal shall be complied with.
- v) Design consultant shall be engaged for designing of retaining structures.
- vi) Plantation shall be done on the reclaimed land and native variety of plants and trees shall be planted.

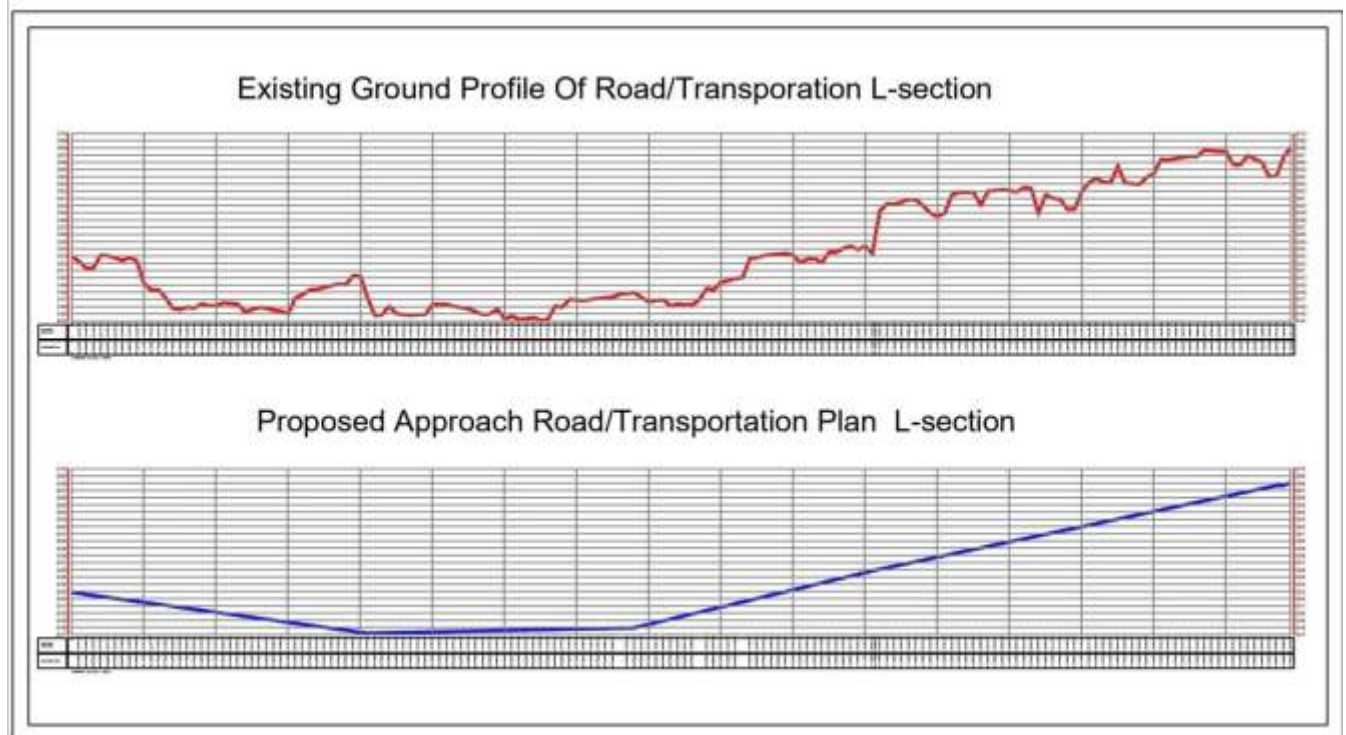
7. **FINANCIAL REQUIREMENT**

The estimated cost of Muck Disposal/Management Plan is as follows:

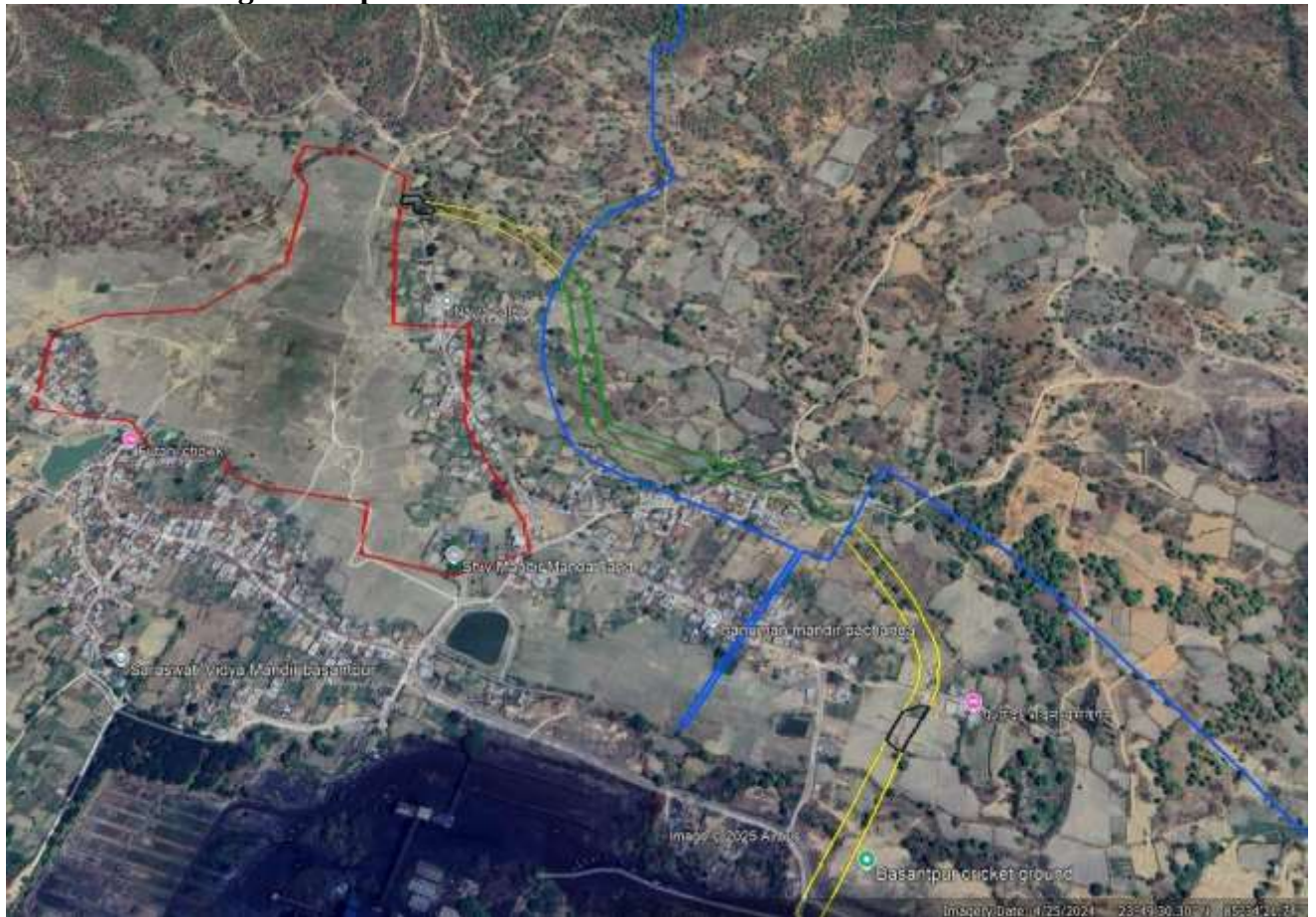
Table 2.7: Financial requirements for implementation of Muck Disposal/Management Plan

S. No.	Item	Amount (Rs.in lakhs)
1.	Engineering measures	1,99,48,652.05
2.	Biological measures	20,00,000.00
3.	Cost of additional filling material	18,50,092.40
	Total	2,37,98,744.45

Pic: Profile of the Road Existing and Proposed L Section



Pic: Satellite Image of Proposed Road:



**ABSTRACT OF COST (CONSTRUCTION OF APPROACH ROAD TO NEW WASHERY AT
BASANTPUR)**

PART A(PQC ROAD) =	59670558
PART B (DRAIN)=	4725215.87
PART C (CULVERT)=	6028390.42
PART D(TOE WALL & STONE PITCHING) =	9195045.76
TOTAL =	79619210
GST =	14331457.8
GROSS TOTAL =	93950667.9

Certificate:-

- This work has not been executed in advance without any proper work order.
- No splitting of work has been done in this proposal and it is a complete proposal as per requirement.


27/02/2022


27/02/22

PART - A (PQC ROAD)

Sl No	Description	Unit	Quantity	Rate	Amount	Updated Rate	Updated Amount	Remarks
1	Excavation in Soil using Hydraulic Excavator CK 90 and Tippers with disposal upto 1000 metres. (Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m)	cum	19508	77	1502116	36	702288	JH SOR 3.6(i) (excluding royalty)
2	Construction of Embankment with Material Deposited from Roadway Cutting (Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2). Rolling with vibratory roller	cum	37199	125	4649875	124	4612676	3.17(i)
3	Embankment Construction with Material Obtained from Borrow Pits (Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2). Rolling with vibratory roller	cum	19508	192	3745536	183	3569964	3.16(i)
4	Granular Sub-base with Close Graded Material (Table:- 400-1) Plant Mix Method (Construction of granular sub-base by providing close graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401) for grading- II Material	cum	4420	1313	5803460	1804	7973680	4.1A(ii)
5	Dry Lean Cement Concrete Sub- base (Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)	cum	2805	2318	6501990	3499	9814695	6.1

6	Cement Concrete Pavement (Construction of unreinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form, or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing.)	cum	5100	5238	26713800	6322	32242200	6.2
7	Construction of Subgrade and Earthen Shoulders (Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2)Rolling with vibratory roller	cum	2040	228	465120	187	381480	3.18(i)
8	Construction of Subgrade and Earthen Shoulders (Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2)Rolling with vibratory roller	sqm	637.5	514	327675	586	373575	8.13

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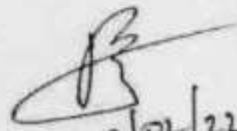
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PART B (RCC DRAIN)

Sl No.	Description	Unit	Quantity	Rate	Amount	Updated Rate	Updated Amount	Remarks
1	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil. Mechanical Means. Depth upto 3 m	cum	1273	61	77653	55.00	70015	12.1(I)B(i)
2	PCC 1:3:6 in Foundation (Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.)	cum	134	3879	519786	5978.00	801052	12.4
3	Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications. RCC Grade M20	cum	308.2	4864	1499085	7318.00	2255408	12.8 ©
4	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and technical specifications	tonne	21.574	66645	1437799	74105.00	1598741	12.40

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PART-C(CULVERT)

No.	Description	Unit	Quantity	Rate	Amount	Updated Rate	Updated Amount	Remarks
1	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.) Ordinary soil. Mechanical Means, Depth upto 3 m.	cum	396.18	61	24166.98	55	21789.9	12.1(I)B(I)
2	PCC 1:3:6 in Foundation (Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.)	cum	157.39	3879	610515.8	5978	940877.4	12.4
3	Plain/Reinforced cement concrete in open foundation complete as per drawing and technical specifications. RCC Grade M25. With Batching Plant, Transit Mixer and Concrete Pump	cum	124.46	5214	648934.4	6677	831019.4	12.8(E) case-II
4	Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing and technical specifications	tonne	9.9568	66645	663570.9	74105	737848.7	12.40
5	Plain/Reinforced cement concrete in sub-structure complete as per drawing and technical specifications. RCC Grade M25. Height upto 5m	cum	165.96	5652	938005.9	8225	1365021	13.5F(p) case-I
6	Supplying, fitting and placing HYSD bar reinforcement in sub-structure complete as per drawing and technical specifications	tonne	13.2768	66758	886332.6	74364.00	987316	13.6
7	Furnishing and Placing Reinforced/Prestressed cement concrete in super-structure as per drawing and Technical Specification. RCC Grade M25. Using Batching Plant, Transit Mixer and Concrete Pump. For T-beam & slab. Height upto 5m.	cum	72.9	6246	455333.4	8011.00	584001.9	14.18 Case-II(ii)(p)
8	Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications	tonne	5.832	67683	394727.3	76455.00	445885.6	14.2
9	Providing weep holes in Brick masonry/Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing face. Complete as per drawing and Technical specifications	metre	779.8	124	96695.2	147.00	114630.6	13.8

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PART D :- TOE WALL & STONE PITCHING

SL NO	Description	Unit	Quantity	Rate	Amount	Updated Rate	Updated Amount	Remarks
1	Excavation for Structures (Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.Mechanical means; upto 3 mt.	cum	686	61	41846	55	37730	12.1(I)B(i)
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	134.75	5466.3	736583.9	6220.78	838250.105	cpwd sor 2014 (4.1.3)
3	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1323	3918.1	5183646	4356.27	5763345.21	cpwd sor 2014 (7.1.1)
4	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :Flush/ Ruled pointing	sqm	1176	152.85	179751.6	213.94	251593.44	cpwd sor 2014 13.33.1
5	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	sqm	4900	422.8	2071720	470.23	2304127	cpwd sor 2014 16.11
					8213548		9195045.76	

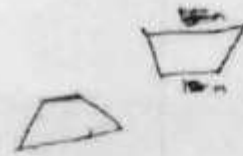
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PART-A - Road

① Earthwork in excavation:

$$19508.10 \text{ m}^3$$



② construction of embankment (from borrow pits)

$$37199.10 \text{ m}^3$$

$$\frac{1}{2} \times (15 + 10) \times 1.5 \times 1700 \times 15 = 11300.00 \text{ m}^3$$



③ construction of embankment
(from available excavated
earth)

$$19508.10 \text{ m}^3$$

$$\begin{aligned} &= 11300.00 \text{ m}^3 \\ \text{Total E/W in} &+ 44807.10 \text{ (from borrow pits)} \\ \text{Total E/W} &= 56707.10 \text{ m}^3 \end{aligned}$$

④ GSB Grt-II

$$1700.10 \times 13.10 \times 0.20 = 4420.10 \text{ m}^3$$

⑤ DLC

$$1700.10 \times 11.10 \times 0.15 = 2805.10 \text{ m}^3$$

⑥ PAC

$$1700.10 \times 10.10 \times 0.30 = 5100.10 \text{ m}^3$$

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⑦ Construction of embankment
(Shoulder)

$$2 \times 1700.00 \times 1.00 \times 0.15 = 510.00 \text{ m}^3$$

$$2 \times 1700.00 \times 1.50 \times 0.30 = 1530.00 \text{ m}^3$$

$$\underline{2040.00 \text{ m}^3}$$

⑧ Painting on road

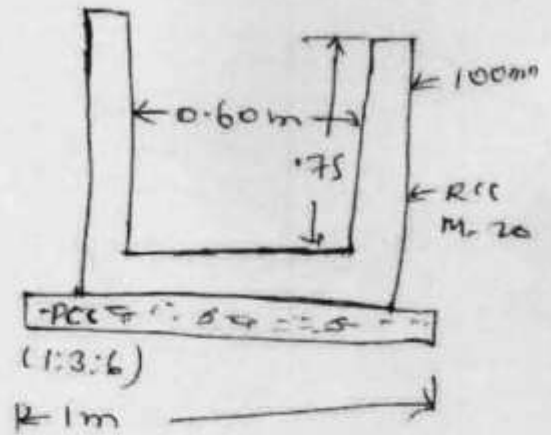
$$1700.00 \times 0.15 \times 2.5 \text{ Times} = 637.50 \text{ m}^2$$


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144-0 Drain

$$\begin{aligned}\text{Total length} &= (2 \times 60.0 + 2 \times 50.0 + 2 \times 60.0 + 2 \times 50.0) \\ &= 1340.0 \text{ m}\end{aligned}$$



① Earthwork

$$1 \times 1340.0 \times 1.0 \times 0.95 = 1273.0 \text{ m}^3$$

② PCC (1:3:6)

$$1 \times 1340.0 \times 1.0 \times 0.10 = 134.0 \text{ m}^3$$

③ RCC (1:1.5:3)

$$\text{base} = 1340.0 \times 0.80 \times 0.10 = 107.20 \text{ m}^3$$

$$\text{wall} = 2 \times 1340.0 \times 0.75 \times 0.10 = 201.00 \text{ m}^3$$

$$\underline{308.20 \text{ m}^3}$$

④ Steel reinforcement

$$\text{same as item ③} \times 70 \text{ kg/m}^3$$

$$308.20 \times 70 = 21574.0 \text{ kg}$$

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Culvert - Part - C

Abstract of quantities

① Earth work:-

$$226.65\text{m}^3 + 169.53\text{m}^3 = 396.18\text{m}^3$$

② PCC (1:3:6)

$$90.21\text{m}^3 + 67.17\text{m}^3 = 157.38\text{m}^3$$

③ RCC (M-25) in boundh/kerb

$$(40.50\text{m}^3 + 27.60\text{m}^3 + 39.15\text{m}^3 + 17.21\text{m}^3) \\ = 124.46\text{m}^3$$

④ Steel reinforcement (60 F/P)

$$124.46\text{m}^3 \times 80\text{kg/m}^3 = 9956.80\text{kg}$$

⑤ RCC (M-25) in wall & stem

$$(54.10 + 26.25 + 67.50 + 2.26 + 12.25 + 2.70) \\ = 165.96\text{m}^3$$

⑥ Steel reinforcement

$$165.96\text{m}^3 \times 80\text{kg/m}^3 = 13276.80\text{kg}$$

⑦ RCC in slabs (M-25)

$$33.75 + 39.15 = 72.90\text{m}^3$$


22/11/22

⑧ steel reinforcement

$$22.30 \text{ m}^3 \times 80 \text{ kg/m}^3 = 5832.0 \text{ kg}$$

⑨ weepholes pipes -

$$\text{wing wall } 2 \times 4 = 32 \text{ nos} \times 0.35 = 11.20 \text{ m}$$

$$8 \times 4 \times 3 = 96 \text{ nos} \times 0.35 = 33.60 \text{ m}$$

$$\underline{44.80 \text{ m}}$$

$$\text{R/R masonry wall } 980 \times 0.75 \text{ m} = 735.00 \text{ m}$$

$$\underline{779.80 \text{ m}}$$


07/04/22



Calculation for 2m x 2m box culvert (3 nos) (Part C)

① E/W

$$3 \times 18.00 \times 3.70 \times 0.50 = 99.90 \text{ m}^3$$

$$\text{wing wall } 4 \times 3 \times 5.00 \times 1.55 \times 0.85 = 79.05 \text{ m}^3$$

$$\text{cut-off } 3 \times 2 \times 10.00 \times 0.30 \times 1.00 = 18.00$$

$$\text{barrapron } 3 \times 2 \times 3.00 \times \left(\frac{2.50 + 8.50}{2} \right) \times 0.30 = 29.70 \text{ m}^3$$

$$\underline{226.65 \text{ m}^3}$$

② PCC (1:3:6)

$$\text{Rabt } 3 \times 18.00 \times 3.70 \times 0.20 = 39.96 \text{ m}^3$$

$$\text{wall } 3 \times 4 \times 5.00 \times 1.55 \times 0.15 = 13.95 \text{ m}^3$$

$$\text{cut-off } 3 \times 2 \times 10.00 \times 0.30 \times 0.50 = 9.00 \text{ m}^3$$

$$3 \times 2 \times 10.00 \times 0.25 \times 0.50 = 7.50 \text{ m}^3$$

$$\text{barrapron } 3 \times 2 \times 3.00 \times \left(\frac{2.50 + 8.50}{2} \right) \times 0.20 = 19.80 \text{ m}^3$$

$$\underline{90.21 \text{ m}^3}$$

③ RCC (M-20)

$$\text{Base} - 3 \times 18.00 \times 2.50 \times 0.30 = 40.50 \text{ m}^3$$

$$\text{wall} - 3 \times 2 \times 10.00 \times 0.25 \times 2.00 = 54.00 \text{ m}^3$$

$$\text{Top} - 3 \times 18.00 \times 2.50 \times 0.25 = 33.75 \text{ m}^3$$

$$\left. \begin{array}{l} 54.00 \\ 33.75 \end{array} \right\} 97.75 \text{ m}^3$$

$$\text{wing wall } 4 \times 3 \times 5.00 \times 1.55 \times 0.20 = 18.60$$

$$4 \times 3 \times 5.00 \times \left(\frac{1.55 + 0.45}{2} \right) \times 0.15 = 9.00$$

$$\text{Sten } 4 \times 3 \times 5.00 \times \left(\frac{0.45 + 0.25}{2} \right) \times \left(\frac{2.00 + 0.50}{2} \right) = 26.25$$

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Parapet - $3 \times 2 \times 2.10 \times 0.25 \times 0.90 = 2.70 \text{ m}^3$

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For

Calculation for 3m x 3m box culvert (cane no.)

PART - I

① Earthwork:-

$$18.00 \times 7.85 \times 0.60 = 84.78 \text{ m}^3$$

$$\text{Wall } 4 \times 4.00 \times 2.55 \times 1.35 = 55.08$$

$$4 \times 1.00 \times 1.75 \times 0.90 = 5.22$$

$$2 \times 10.00 \times 0.30 \times 1.00 = 6.00$$

$$\text{Mortar} \quad 2 \times \left(\frac{7.25 + 13.25}{2} \right) \times 3.00 \times 0.30 = 18.45 \text{ m}^3$$

$$157.08 \text{ m}^3$$

$$169.53 \text{ m}^3$$

② P.C.C. (1:3:6)

$$1 \times 18.00 \times 7.85 \times 0.30 = 42.39 \text{ m}^3$$

$$4 \times 4.00 \times 2.55 \times 0.15 = 6.12 \text{ m}^3$$

$$4 \times 1.00 \times 1.45 \times 0.15 = 0.87 \text{ m}^3$$

$$2 \times 10.00 \times 0.30 \times 0.50 = 3.00 \text{ m}^3$$

$$2 \times 10.00 \times 0.25 \times 0.50 = 2.50 \text{ m}^3$$

$$\text{Mortar} \quad 2 \times \left(\frac{7.25 + 13.25}{2} \right) \times 3.00 \times 0.20 = 54.88 \text{ m}^3$$

$$12.30 \text{ m}^3$$

$$67.18 \text{ m}^3$$

③ R.C.C. (M 20)

$$\text{base } 1 \times 18.00 \times 7.25 \times 0.30 = 39.15 \text{ m}^3$$

$$\text{Side wall } 1 \times 18.00 \times 0.35 \times 3.00 = 18.90 \text{ m}^3$$

$$2 \times 18.00 \times 0.45 \times 3.00 = 48.60 \text{ m}^3$$

$$67.50 \text{ m}^3$$

$$\text{Top slab } 1 \times 18.00 \times 7.25 \times 0.30 = 39.15 \text{ m}^3$$

$$\text{Pavement } 2 \times 7.25 \times 0.25 \times 0.30 = 3.26 \text{ m}^3$$

$$42.41 \text{ m}^3$$

$$\text{wing wall base } 4 \times 4 \times 2.55 \times 0.25 = 10.20 \text{ m}^3$$

$$4 \times 4.00 \times \left(\frac{2.55 + 0.45}{2} \right) \times 2.00 = 4.90$$

$$4 \times 1.00 \times 1.45 \times 0.25 = 1.45$$

$$4 \times 1 \times \left(\frac{1.45 + 0.45}{2} \right) \times 2.00 = 0.76$$

$$17.31 \text{ m}^3$$

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$$\text{wall } 4 \times 4.00 \times \left(\frac{4.5 + 0.25}{2} \right) \times \left(\frac{3.00 + 1.00}{2} \right) = 11.20 \text{ m}^3$$

$$4 \times 1 \text{ m} \times \left(\frac{4.5 + 0.25}{2} \right) \times \left(\frac{1.00 + 0.50}{2} \right) = 1.05 \text{ m}^3$$

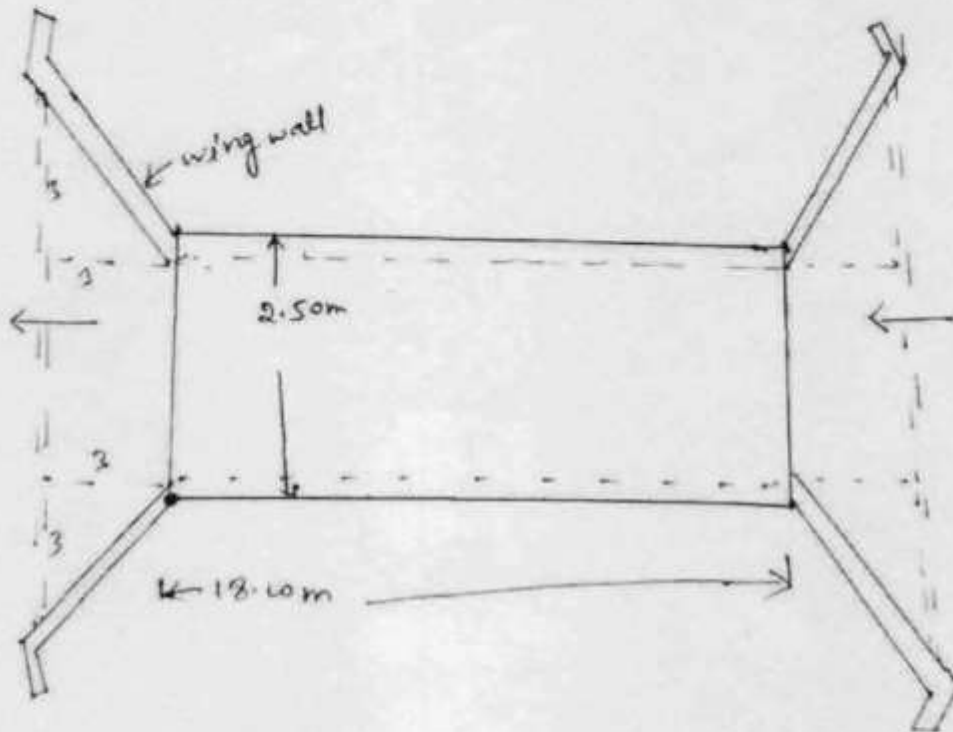
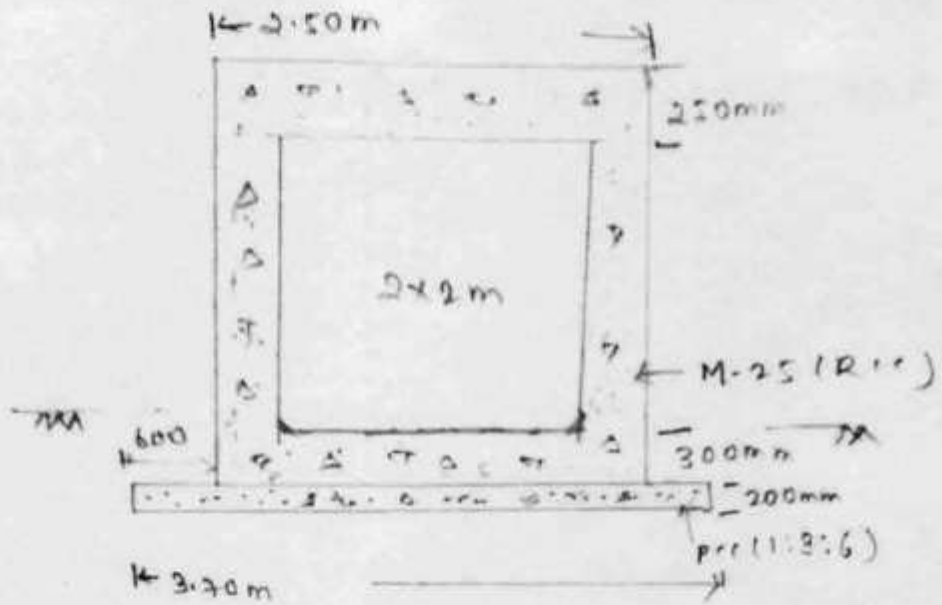
12.25 m³

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(Part C)

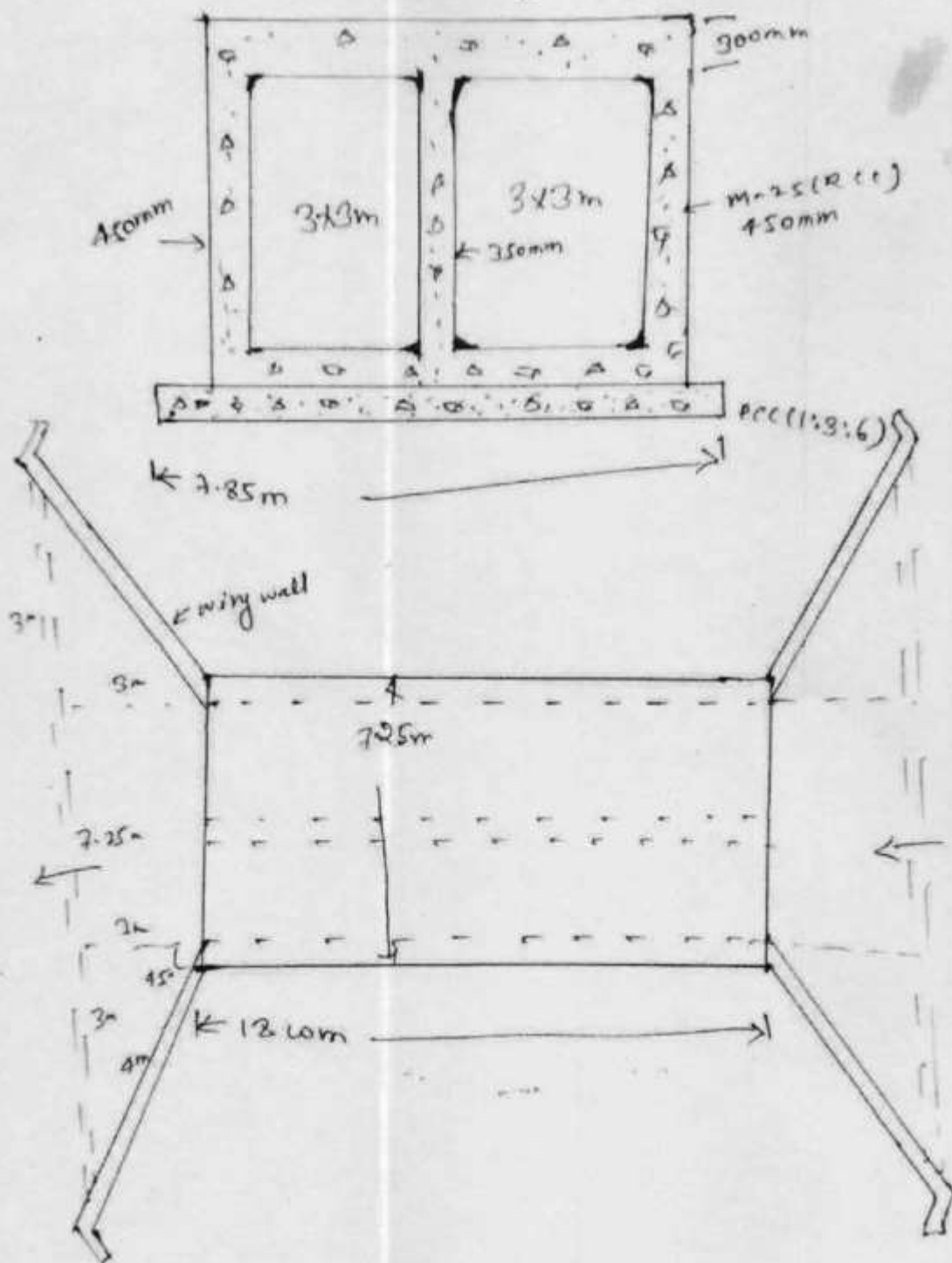
Box current 2 m x 2 m



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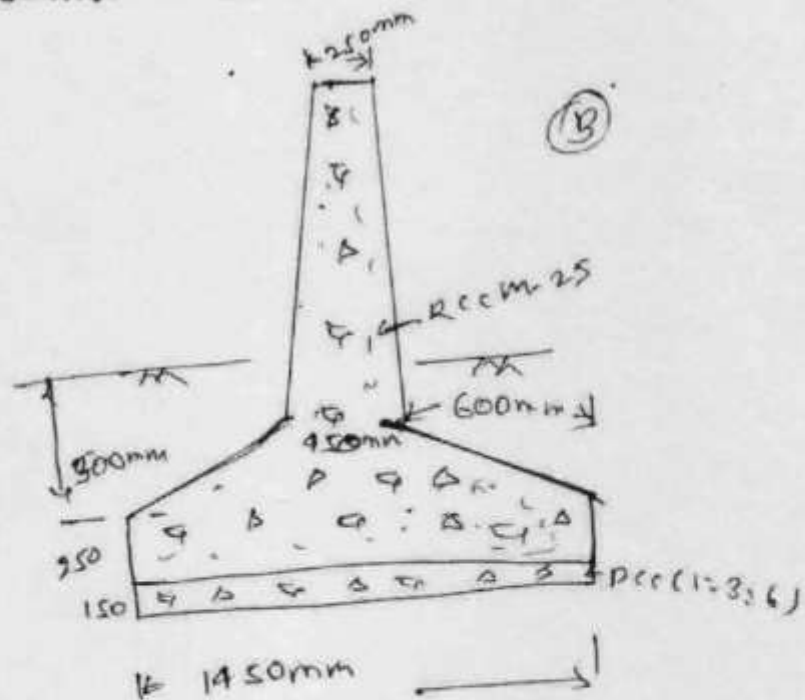
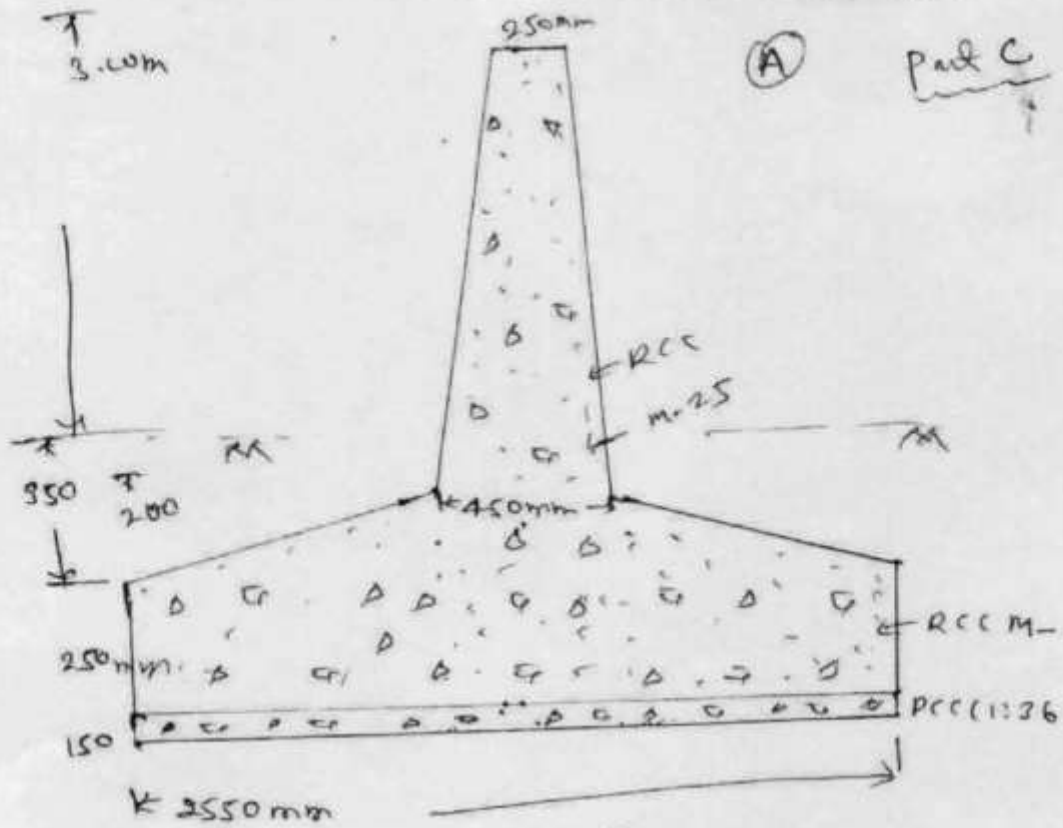
Part C.

Box culvert 3m x 3m



B

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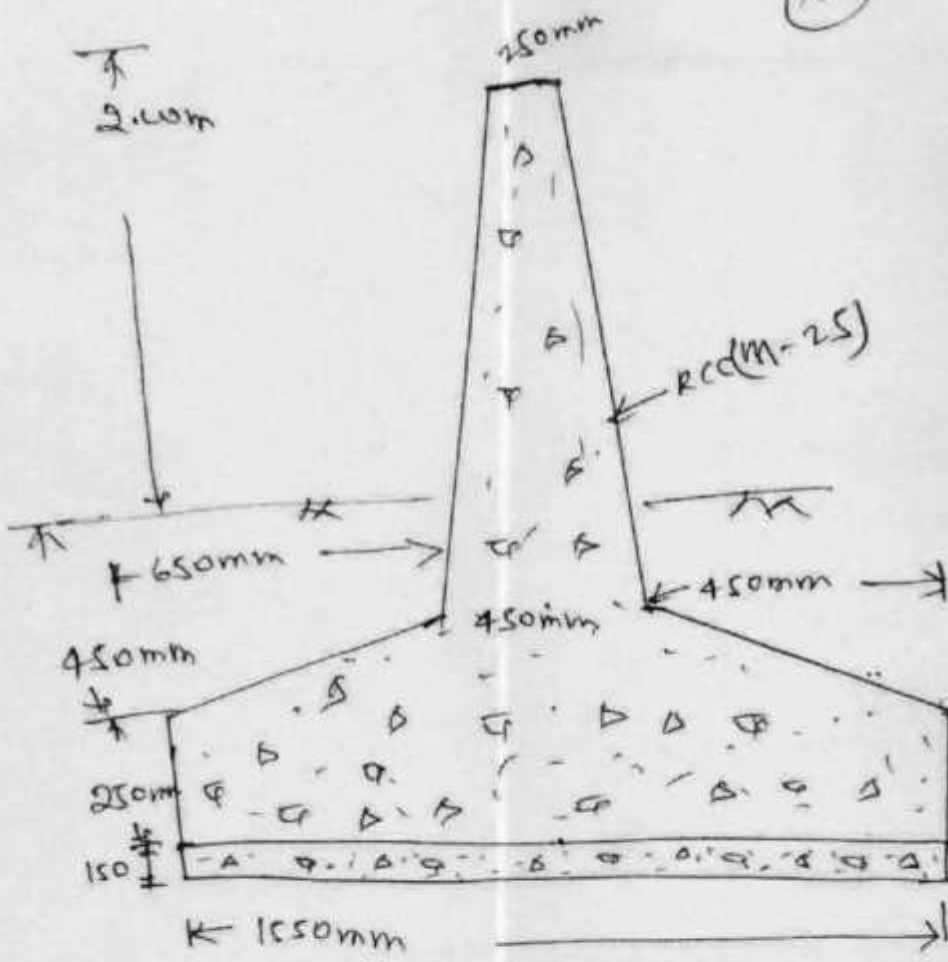


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Part C

(C)



B

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(Part - D) Toe wall & stone pitching

① Earthwork

$$CH-110-310 \rightarrow 200m$$

$$430-500 \rightarrow 70m$$

$$570-670 \rightarrow 100m$$

$$840-900 \rightarrow 60m$$

$$1030-1050 \rightarrow 20m$$

$$1660-1680 \rightarrow 20m$$

$$490m \times 2 (\text{both sides})$$

$$= 980.0m$$

$$Qty - 980.0 \times 1.0 \times 0.70 = 686.0 m^3$$

② PCC (1:2:4)

$$\text{found'n } 980.0 \times 0.50 \times 0.10 = 49.0$$

$$\text{Topob wall } 980.0 \times 0.50 \times 0.075 = 36.75$$

$$85.75 m^3$$

③ Random Rubble masonry

$$1 \times 980.0 \times \left(\frac{1.0 + 0.50}{2} \right) \times 1.20 = 1323.0 m^3$$

④ Polishing work

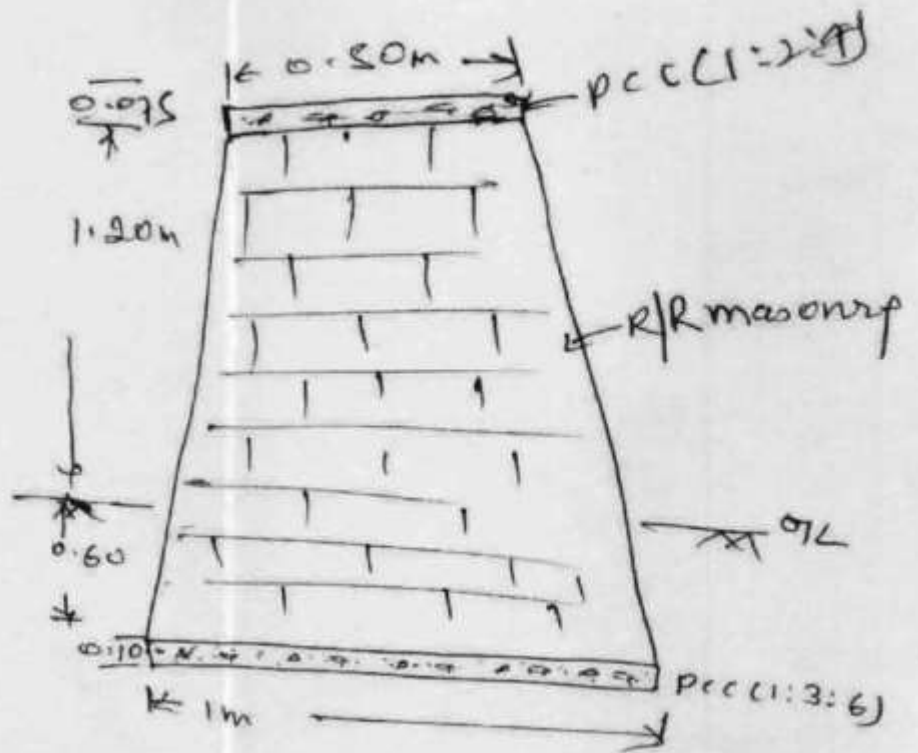
$$980.0 \times 1.20 = 1176.0 m^2$$

⑤ stone pitching

$$980.0 \times 5.0 = 4900.0 m^2$$

B

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①

Chainage	R.L	Formation R.L	cutting/fill ing	cutting/fil ling	C/S area	Volume
0	353	353	0	0	0	0
10	352.98	352.862	-0.118	0.118	1.7978	8.9892
15					0	4.4946
20	352.25	352.724	0.474	0.474	7.5594	18.898
30	351.3	352.586	1.286	1.286	22.598	150.78
40	351.36	352.448	1.088	1.088	18.687	206.43
45					0	46.719
50	353.11	352.31	-0.8	0.8	13.28	33.2
60	353.07	352.172	-0.898	0.898	15.083	141.81
70	352.75	352.034	-0.716	0.716	11.765	134.24
80	352.38	351.896	-0.484	0.484	7.7285	97.469
90	352.81	351.758	-1.052	1.052	17.993	128.61
100	352.35	351.62	-0.73	0.73	12.016	150.05
105					0	30.039
110	349.28	351.482	2.202	2.202	42.728	106.82
120	348.32	351.344	3.024	3.024	63.649	531.88
130	348.32	351.206	2.886	2.886	59.948	617.99
140	347.22	351.068	3.848	3.848	87.334	736.41
150	345.72	350.93	5.21	5.21	132.44	1098.9
160	345.6	350.792	5.192	5.192	131.79	1321.2
170	345.94	350.654	4.719	4.719	115.32	1235.6
180	345.79	350.516	4.731	4.731	115.73	1155.3
190	346.04	350.378	4.343	4.343	102.87	1093
200	346.09	350.24	4.155	4.155	96.853	998.61
210	346.14	350.102	3.967	3.967	90.979	939.16
220	346.53	349.964	3.439	3.439	75.238	831.09
230	346.44	349.826	3.391	3.391	73.863	745.51
240	346.34	349.688	3.353	3.353	72.78	733.21
250	345.26	349.55	4.295	4.295	101.32	870.5
260	345.57	349.412	3.847	3.847	87.304	943.11
270	345.91	349.274	3.369	3.369	73.235	802.7
280	345.8	349.136	3.336	3.336	72.298	727.67
290	345.5	348.998	3.498	3.498	76.942	746.2
300	345.4	348.86	3.46	3.46	75.843	763.93

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310	345	348.722	3.722	3.722	83.537	796.9
320	347.21	348.584	1.379	1.379	24.488	540.12
330	347.68	348.446	0.771	0.771	12.754	186.21
335					0	31.885
340	348.32	348.308	-0.012	0.012	0.1803	0.4507
350	348.42	348.17	-0.25	0.25	3.875	20.276
360	348.67	348.032	-0.638	0.638	10.384	71.295
370	348.92	347.894	-1.026	1.026	17.495	139.4
380	349.12	347.756	-1.364	1.364	24.181	208.38
390	349.06	347.618	-1.437	1.437	25.685	249.33
400	350.3	347.48	-2.815	2.815	58.073	418.79
410	350.2	347.342	-2.853	2.853	59.074	585.74
415					0	147.69
420	347.19	347.204	0.019	0.019	0.2857	0.7143
430	344.79	347.224	2.439	2.439	48.482	243.84
440	344.87	347.244	2.379	2.379	47.004	477.43
450	346.04	347.264	1.229	1.229	21.456	342.3
460	345.02	347.284	2.269	2.269	44.332	328.94
470	344.92	347.304	2.389	2.389	47.25	457.91
480	344.82	347.324	2.509	2.509	50.225	487.37
490	344.92	347.344	2.429	2.429	48.235	492.3
500	344.92	347.364	2.449	2.449	48.73	484.83
510	346.29	347.384	1.099	1.099	18.901	338.15
520	346.3	347.404	1.109	1.109	19.095	189.98
530	346.3	347.424	1.129	1.129	19.484	192.9
540	345.99	347.444	1.459	1.459	26.142	228.13
550	345.89	347.464	1.579	1.579	28.671	274.07
560	345.69	347.484	1.799	1.799	33.458	310.65
570	345.29	347.504	2.219	2.219	43.133	382.95
580	344.88	347.524	2.649	2.649	53.769	484.51
590	345	347.544	2.544	2.544	51.104	524.37
600	344.65	347.564	2.914	2.914	60.693	558.98
610	344.3	347.584	3.284	3.284	70.829	657.61
620	344.65	347.604	2.959	2.959	61.896	663.63
630	344.25	347.624	3.374	3.374	73.378	676.37
640	344.3	347.644	3.344	3.344	72.525	729.51

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Low

3

650	344.5	347.664	3.164	3.164	67.482	700.03
660	344.1	347.684	3.584	3.584	79.45	734.66
670	344.2	347.704	3.504	3.504	77.116	782.83
680	346.08	347.724	1.544	1.644	30.065	535.91
690	345.93	347.744	1.814	1.814	33.791	319.28
700	347.03	347.764	0.734	0.734	12.088	229.39
710	346.9	347.784	0.884	0.884	14.823	134.55
720	346.83	347.804	0.974	0.974	16.507	156.65
730	347.03	347.824	0.794	0.794	13.171	148.39
740	347.13	347.844	0.714	0.714	11.73	124.5
750	347.23	347.864	0.634	0.634	10.314	110.22
760	347.33	347.884	0.554	0.554	8.9238	96.189
770	347.73	347.904	0.174	0.174	2.6706	57.972
780	347.83	347.924	0.094	0.094	1.4277	20.491
790	347.93	347.944	0.014	0.014	0.2104	8.1903
800	347.24	348.183	0.943	0.943	15.923	80.669
810	346.67	348.422	1.757	1.757	32.529	242.26
820	346.87	348.661	1.796	1.796	33.391	329.6
830	346.97	348.9	1.935	1.935	36.513	349.52
840	347.07	349.139	2.074	2.074	39.713	381.13
850	346.36	349.378	3.023	3.023	63.622	516.68
860	346.25	349.617	3.372	3.372	73.321	684.71
870	346.25	349.856	3.611	3.611	80.244	767.82
880	346.96	350.095	3.14	3.14	66.819	735.31
890	348.5	350.334	1.839	1.839	34.349	505.84
900	348.33	350.573	2.248	2.248	43.827	390.88
910	349.4	350.812	1.412	1.412	25.167	344.97
920	349.62	351.051	1.431	1.431	25.561	253.64
930	349.92	351.29	1.37	1.37	24.304	249.32
940	350.02	351.529	1.509	1.509	27.189	257.46
945					0	67.973
950	352.69	351.768	-0.922	0.922	15.53	38.825
960	352.79	352.007	-0.783	0.783	12.971	142.51
970	353.09	352.246	-0.844	0.844	14.085	135.28
980	353.19	352.485	-0.705	0.705	11.569	128.27
990	353.29	352.724	-0.566	0.566	9.1307	103.5

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1000	353.37	352.963	-0.402	0.402	6.3532	77.42
1005					0	15.883
1010	353.11	353.202	0.092	0.092	1.3969	3.4923
1020	352.11	353.441	1.331	1.331	23.508	124.53
1030	352.61	353.68	1.07	1.07	18.34	209.24
1040	352.61	353.919	1.309	1.309	23.062	207.01
1050	352.11	354.158	2.048	2.048	39.109	310.85
1060	353.56	354.397	0.837	0.837	13.956	265.32
1070	353.56	354.636	1.076	1.076	18.456	162.06
1080	354.11	354.875	0.765	0.765	12.645	155.51
1090	354.38	355.114	0.734	0.734	12.088	123.66
1100	353.88	355.353	1.473	1.473	26.434	192.61
1110	354.38	355.592	1.212	1.212	21.118	237.76
1120	353.38	355.831	2.451	2.451	48.78	349.49
1124	355.92	355.926	0.006	0.006	0.0901	244.35
1127					0	0.1351
1130	359.25	356.052	-3.198	3.198	68.424	102.64
1140	360.25	356.263	-3.987	3.987	91.597	800.11
1150	360.2	356.474	-3.726	3.726	83.656	876.27
1160	360.47	356.685	-3.785	3.785	85.427	845.42
1170	360.85	356.896	-3.954	3.954	90.578	880.03
1180	360.82	357.107	-3.713	3.713	83.268	869.23
1190	359.99	357.318	-2.672	2.672	54.359	688.13
1200	359	357.529	-1.469	1.469	26.351	403.55
1210	358.49	357.74	-0.75	0.75	12.375	193.63
1220	358.99	357.951	-1.039	1.039	17.744	150.6
1230	361.49	358.162	-3.328	3.328	72.071	449.08
1240	361.86	358.373	-3.487	3.487	76.623	743.47
1250	361.85	358.584	-3.266	3.266	70.324	734.73
1260	361.84	358.795	-3.045	3.045	64.219	672.71
1270	360.07	359.006	-1.064	1.064	18.224	412.22
1280	361.99	359.217	-2.773	2.773	56.974	375.99
1290	362.09	359.428	-2.662	2.662	54.102	555.38
1300	362.19	359.639	-2.551	2.551	51.28	526.91
1310	362.09	359.85	-2.24	2.24	43.635	474.58
1320	361.89	360.061	-1.829	1.829	34.125	388.8

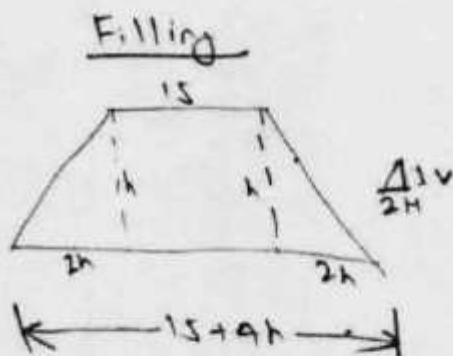
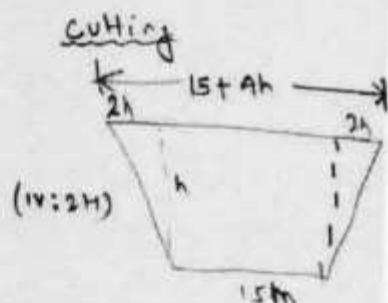
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1330	362.49	360.272	-2.218	2.218	43.109	386.17
1340	362.39	360.483	-1.907	1.907	35.878	394.94
1345					0	89.696
1350	358.99	360.694	1.704	1.704	31.367	78.418
1355					0	78.418
1360	361.52	360.905	-0.615	0.615	9.9815	24.954
1365					0	24.954
1370	361	361.116	0.116	0.116	1.7669	4.4173
1380	360.9	361.327	0.427	0.427	6.7697	42.683
1390	359.5	361.538	2.038	2.038	38.877	228.23
1400	359.5	361.749	2.249	2.249	43.851	413.64
1410	361.93	361.96	0.03	0.03	0.4518	221.51
1415					0	1.1295
1420	363.2	362.171	-1.029	1.029	17.553	43.882
1430	363.79	362.382	-1.403	1.403	24.982	212.67
1440	363.25	362.593	-0.657	0.657	10.718	178.5
1450	363.15	362.804	-0.346	0.346	5.4294	80.739
1460	365.45	363.015	-2.435	2.435	48.383	269.06
1465					0	120.96
1470	363.15	363.226	0.076	0.076	1.1516	2.8789
1480	363.05	363.437	0.387	0.387	6.1045	36.28
1490	362.95	363.648	0.698	0.698	11.444	87.745
1495					0	28.611
1500	363.95	363.859	-0.091	0.091	1.3816	3.4539
1510	364.46	364.07	-0.39	0.39	6.1542	37.679
1520	366.43	364.281	-2.144	2.144	41.353	237.54
1530	366.33	364.492	-1.833	1.833	34.215	377.84
1540	366.53	364.703	-1.822	1.822	33.969	340.92
1550	366.73	364.914	-1.811	1.811	33.724	338.47
1560	366.84	365.125	-1.71	1.71	31.498	326.11
1570	366.84	365.336	-1.499	1.499	26.979	292.39
1580	367.72	365.547	-2.168	2.168	41.92	344.5
1590	367.62	365.758	-1.857	1.857	34.752	383.36
1600	367.52	365.969	-1.546	1.546	27.97	313.61
1610	367.52	366.18	-1.335	1.335	23.589	257.8
1615					0	58.974

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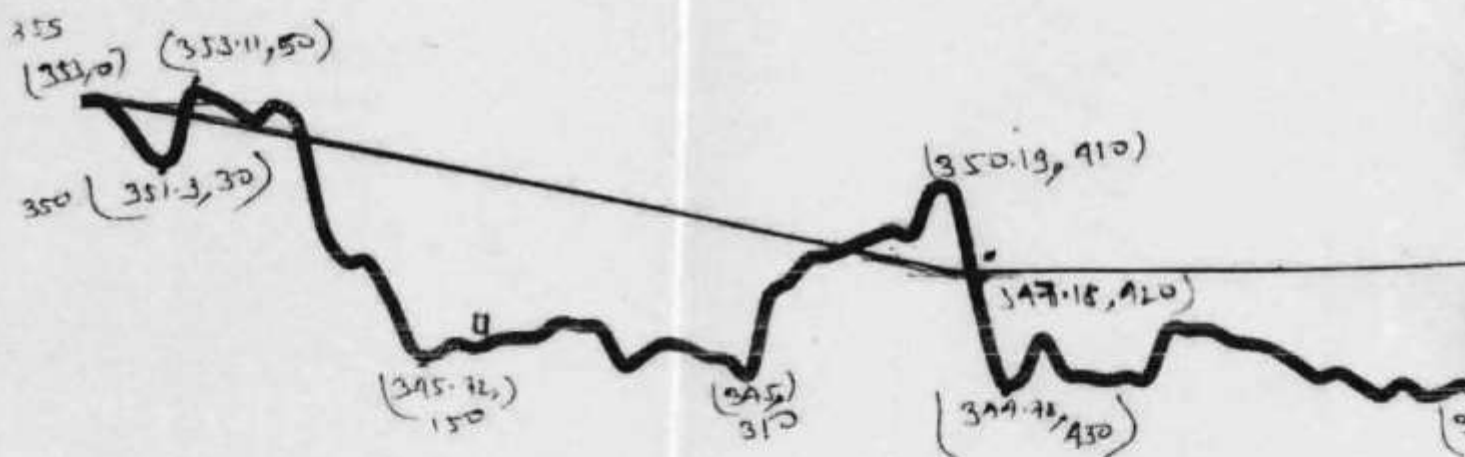
1620	365.67	366.391	0.726	0.726	11.944	29.86
1630	365.67	366.602	0.937	0.937	15.811	138.78
1635					0	39.527
1640	366.98	366.813	-0.162	0.162	2.4825	6.2062
1645					0	6.2062
1650	366.48	367.024	0.549	0.549	8.8378	22.095
1660	365.98	367.235	1.26	1.26	22.075	154.57
1670	364	367.446	3.446	3.446	75.44	487.58
1680	364.13	367.657	3.532	3.532	77.93	766.85
1690	366.74	367.868	1.133	1.133	19.562	487.46
1695					0	48.906
1700	368.11	368.079	-0.026	0.026	0.3914	0.9784

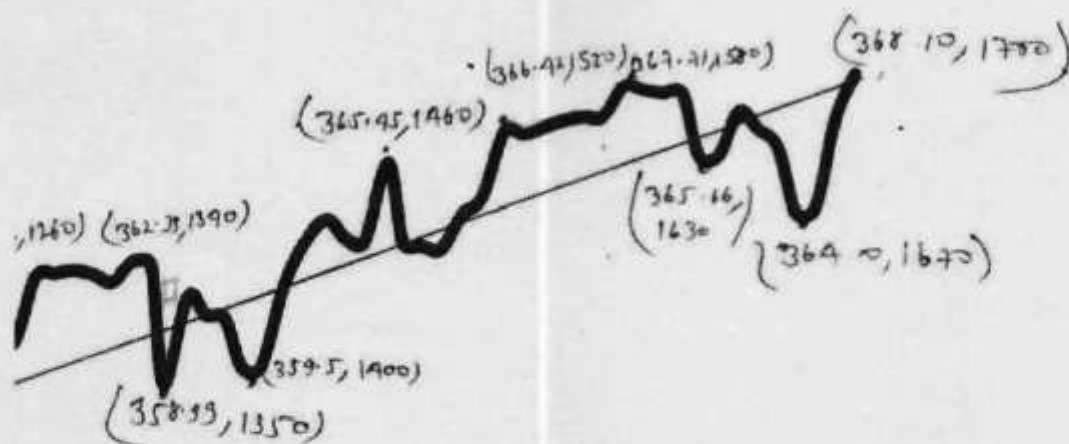
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