Mine Plan and Mine Closure Plan

(Second Modification)

For

BHASKARPARA COAL MINE

JHILIMILI Coal Field
(Under Rule 22E of MCR 1960)
Surajpur
Chhattisgarh

Project area 932 ha

Targeted Capacity 1 MTPA
Peak Rated Capacity -1.5000MTPA

Prepared By

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APPLICANT

PRAKASH INDUSTRIES LIMITED

Srivan, Najafgarh, Bijwasan Road, Bijwasan, New Delhi 110061

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Prepared By Awadhesh Kumar Sinha On 12/05/2022

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CHECKLIST

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Chapter-1: Project Information

1.1 Introduction

S.No	Parameters	Details
1.1.1	Name of the Coal/Lignite Block	BHASKARPARA COAL MINE
1.1.2	Name of the Coalfield/ Lignite Field.	JHILIMILI Coal Field
1.1.3	Base date of Mining Plan/ Mine Closure Plan.	12/05/2022
1.1.4	Linked End Use Plant.	Bhaskarpara coal mine has been auctioned by the Ministry of coal, GoI for the purpose of sale of coal, including sale to affiliates and related parties,utilization of coal for any purpose including but not limited to captive consumption, coal gasification, coal liquefaction and export of coal. Coal produced from the mine shall be sold to different users on the basis of short and long term agreements.
1.1.5	Distance of End Use Plant from the pit head of the project in âkmâ.	However, Bhaskarpara Coal mine auctioned by the Government for commercial exploitation, shall have other end users located at different locations in the country.
1.1.6	Mode of Coal Transport	Consumers shall have access to carry the coal produced from the mine to their plants by rail through Shivprasad Nagar railway station on Baikunthpur Bishrampur Railway line whereas coal shall be transported by road to consumers over relatively shorter distances

1.2 Location, Topography & Communication:

S.No	Parameters	Details
1.2.1	Location of coal deposit.	The Bhaskarpara Coal Block is situated in the eastern continuity of Girijapur Block, Jhillimili Coalfield, Bhaiyathan, Surajpur district of Chhattisgarh. Jhillimili coalfield is part of central India Coalfields and is situated in Surajpur district of Chhattisgarh.
	State	Chhattisgarh
	District	Surajpur
1.2.2	Communication	The Bhaskarpara Block is approachable by black top road from Surajpur and Patna located on the NH 78 (connecting Ambikapur Shahdol via Surajpur, Patna and Baikunthpur). The block is located at a distance of about 8 km from Patna through SH 12 which is passing through Bhaskarpara and about 24 Km from Surajpur through Bhaiyathan Road. The Shivprasad Nagar Railway Station on Ambikapur-Sahdol Railway line of the SE Railway is the nearest railway station which is located at a distance of about 7 km from the proposed coal mine. The Surajpur railway station in the same Railway towards Ambikapur in about 11 km.
1.2.3	Availability of power supply & water etc.	The proposed mining block is virgin. Based on the Rated capacity of ROM Coal for Bhaskarpara coal Block and assuming certain parameters for coal extraction, transportation, loading, handling pumping etc. the tentative power requirement will be about 2 MVA which is not available nearby. Respective authorities in the State Government of Chhattisgarh have been approached for providing power from their grid. A Substation equipped with Switch yard and step-down transformer facilities will be commissioned near the site services and power at 33 kV, 11 kV, 3.3 kV and 400 V shall be made available for the mine. All HEMM are proposed to be diesel operated. A standby DG set of 1 MW capacity will also be provided for emergency use in underground operation.
1.2.4	Prominent physiographic features, drainage pattern, natural water courses, rainfall data, highest flood level.	The general elevation of the block varies from 530 m to 597 m above mean sea level. The average elevation of the block is around 565 m above MSL. The southern part of the block is mainly plain country comprising of paddy fields. The northern part is however undulating terrain occupied by sandstone ridges.Manik Nala with north easterly flow drains to join Gokhani Nala in the north Kalua Nala with south eastern flow drains into Rehar river in the east. These two seasonal nallas along with their feeders control the drainage pattern of the block. The average rainfall is around 1456 mm out of which 80 is during the monsoon months July to September. Tropic of Cancer passes just north of Jhillimili CF. The area experiences temperate climate. The highest temperature during May-June goes up to 44.8 degree C during the day time while in winter the temperature dips to 0.9 degree C during the night.

1.2.5	Important surface features within the project area and major diversion or shifting involved.	Human habitation The land of Seven villages namely Bhaskarpara, Khandapara, Badsara, Kuridih, Dhanuli Khurd, Kewra and Kushmushi are falling partly within mine Lease area. In addition, there is a small hamlet by the name Kudripara inside the forest within the block.Road Eastern boundary of the proposed Q-NW shall block a small part (approx. 1 km) of PWD road which passes through the coal block. This partshall be diverted away from theeastern / south eastern boundary of the Q-NW boundary. Diverted road shall reconnectand get realigned with the existing road. Ponds Few Small ponds and dug wells in the area. These are utilized for irrigation and drinking water purpose. Nala/River The Manik nala with north easterly flow drains to join Gokhani nala in the north Kalua Nala with south eastern flow drains into Rehar River in the east. These two Seasonal nallas along with their feeders control the drainage pattern of the block. The Manik Nala flowing over Quarry NW will be diverted towards western side of the block and will join into Gokhani Nala. Kalua Nala is having small catchment which will be terminated during mine operations so there is no further diversion required. Transmission Line NTPC Korba-Vindhyachal HT Line passes across the block from South Westto North dividing the proposed Q-NW. HT line shall be diverted along southern side of the proposed external dump boundary and along south eastern to eastern boundary of Quarry NW.

1.3 Details of the Allotment Agreement:

S.No	Parameters	Details
1.3.1	Name of the Allottee	PRAKASH INDUSTRIES LIMITED
1.3.2	Details of allotment/vesting Order.	NA-104/5/2021-NA
1.3.2(B)	Allocation/Vesting Order Date	2021-11-18
1.3.3	Name and address of the Applicant	Srivan, Najafgarh, Bijwasan Road, Bijwasan, New Delhi 110061
1.3.4	Name of the previous Allottee of the Block.	Bhaskarpara Coal Company Ltd BCCL which is a joint Venture has been formed jointly by M s Electrotherm India Ltd and Ms Grasim Industries Ltd
1.3.5	Starting date of the Mine as per CMDPA/CBDPA	01/03/2023
1.3.6	Rated capacity as per CMDPA/CBDPA	1.00
1.3.7	Production Schedule as per opening permission (meeting provisions of CMDPA if any).	After Obtaining FC, EC, Grant of ML and Opening of Escrow account allottee could submit application for mine opening permission.
1.3.8	End Use of Coal/ Lignite as per allotment order if any	Bhaskarpara coal block has been allotted for commercial exploitation. Coal produced shall be sold to desirous buyers on mutually agreeable terms.
1.3.9	Cardinal points coordinates of the Block Boundary	Cardinal Points files data shown below

Cardinal Points co-ordinates of the Block boundary :

POINT NO	Latitude (N)	Longitud (E)
P-1	23° 21' 37.318"	82° 46' 9.651"
P-2	23° 21' 36.922"	82° 46' 8.304"
P-3	23° 21' 36.173"	82° 46' 4.592"
P-4	23° 21' 35.966"	82° 46' 2.687"
P-5	23° 21' 35.917"	82° 46' 1.385"
P-6	23° 21' 35.975"	82° 46' 0.302"
P-7	23° 21' 35.718"	82° 45' 59.156"
P-8	23° 21' 35.390"	82° 45' 57.673"
P-9	23° 21' 35.143"	82° 45' 56.523"
P-10	23° 21' 35.028"	82° 45' 56.017"
P-11	23° 21' 34.892"	82° 45' 54.735"
P-12	23° 21' 34.783"	82° 45' 53.297"
P-13	23° 21' 34.688"	82° 45' 50.985"
P-14	23° 21' 34.652"	82° 45' 49.500"
P-15	23° 21' 34.628"	82° 45' 48.965"
P-16	23° 21' 34.568"	82° 45' 47.086"
P-17	23° 21' 34.537"	82° 45' 46.712"
P-18	23° 21' 34.525"	82° 45' 45.983"
P-19	23° 21' 34.436"	82° 45' 45.326"
P-20	23° 21' 34.371"	82° 45' 44.411"
P-21	23° 21' 34.257"	82° 45' 43.460"
P-22	23° 21' 34.081"	82° 45' 42.180"
P-23	23° 21' 33.984"	82° 45' 41.505"
P-24	23° 21' 33.914"	82° 45' 41.020"
P-25	23° 21' 33.809"	82° 45' 40.476"
P-26	23° 21' 33.751"	82° 45' 40.229"
P-27	23° 21' 33.645"	82° 45' 39.776"
P-28	23° 21' 33.297"	82° 45' 38.466"
P-29	23° 21' 33.177"	82° 45' 38.050"
	23° 21' 33.080"	82° 45' 37.763"

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POINT NO	Latitude (N)	Longitud (E)
P-31	23° 21' 32.851"	82° 45' 37.076"
P-32	23° 21' 32.586"	82° 45' 36.495"
P-33	23° 21' 32.297"	82° 45' 35.926"
P-34	23° 21' 31.629"	82° 45' 34.635"
P-35	23° 21' 31.363"	82° 45' 33.938"
P-36	23° 21' 31.233"	82° 45' 33.449"
P-37	23° 21' 29.891"	82° 45' 30.470"
P-38	23° 21' 29.440"	82° 45' 29.374"
P-39	23° 21' 29.139"	82° 45' 28.507"
P-40	23° 21' 28.755"	82° 45' 27.660"
P-41	23° 21' 28.253"	82° 45' 26.555"
P-42	23° 21' 28.109"	82° 45' 26.256"
P-43	23° 21' 27.653"	82° 45' 23.599"
P-44	23° 21' 27.501"	82° 45' 22.916"
P-45	23° 21' 27.317"	82° 45' 21.741"
P-46	23° 21' 27.182"	82° 45' 20.832"
P-47	23° 21' 27.090"	82° 45' 20.354"
P-48	23° 21' 26.889"	82° 45' 19.609"
P-49	23° 21' 26.654"	82° 45' 18.855"
P-50	23° 21' 26.427"	82° 45' 18.138"
P-51	23° 21' 25.995"	82° 45' 17.088"
P-52	23° 21' 25.621"	82° 45' 16.393"
P-53	23° 21' 25.002"	82° 45' 15.244"
P-54	23° 21' 24.443"	82° 45' 14.217"
P-55	23° 21' 23.954"	82° 45' 13.410"
P-56	23° 21' 23.127"	82° 45' 11.786"
P-57	23° 21' 22.477"	82° 45' 10.458"
P-58	23° 21' 21.856"	82° 45' 8.922"
P-59	23° 21' 21.413"	82° 45' 7.673"
P-60	23° 21' 21.058"	82° 45' 6.791"
P-61	23° 21' 20.797"	82° 45' 6.141"
P-62	23° 21' 33.696"	82° 45' 5.782"
P-63	23° 22' 8.423"	82° 45' 5.282"
P-64	23° 22' 37.809"	82° 45' 5.344"
P-65	23° 22' 39.244"	82° 45' 5.270"
P-66	23° 22' 40.159"	82° 45' 11.813"
P-67	23° 22' 40.895"	82° 45' 16.593"
P-68	23° 22' 41.379"	82° 45' 20.619"
P-69	23° 22' 41.506"	82° 45' 23.823"
P-70	23° 22' 41.336"	82° 45' 28.322"
P-71	23° 22' 41.213"	82° 45' 30.928"
P-72	23° 22' 41.025"	82° 45' 35.305"
P-73	23° 22' 41.232"	82° 45' 40.046"
P-74	23° 22' 41.273"	82° 45' 42.624"
P-75	23° 22' 41.426"	82° 45' 45.914"
P-76	23° 22' 41.481"	82° 45' 50.127"
P-77	23° 22' 41.437"	82° 45' 51.723"
P-78	23° 22' 41.390"	82° 45' 53.788"
P-79	23° 22' 41.390"	82° 45' 55.135"
P-80	23° 22' 41.441"	82° 45' 57.322"
P-81	23° 22' 41.477"	82° 45' 58.221"
P-82	23° 22' 41.558"	82° 45' 59.511"
P-83	23° 22' 41.590"	82° 46' 0.166"
P-84	23° 22' 41.671"	82° 46' 2.150"
P-85	23° 22' 41.713"	82° 46' 3.114"
P-86	23° 22' 41.786"	82° 46' 6.001"
P-87	23° 22' 41.814"	82° 46' 9.968"
P-88	23° 22' 41.805"	82° 46' 10.969"
P-89	23° 22' 41.664"	82° 46' 13.969"
P-90	23° 22' 41.589"	82° 46' 15.679"
P-91	23° 22' 41.556"	82° 46' 16.431"
P-92	23° 22' 41.321"	82° 46' 20.639"
P-93	23° 22' 41.198"	82° 46' 21.951"
P-94	23° 22' 41.085"	82° 46' 22.937"
P-95	23° 22' 40.788"	82° 46' 27.542"
P-96	23° 22' 40.696"	82° 46' 28.806"
P-97	23° 22' 40.267"	82° 46' 32.707"
P-98	23° 22' 40.115"	82° 46' 33.576"

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POINT NO	Latitude (N)	Longitud (E)
P-99	23° 22' 39.196"	82° 46' 37.568"
P-100	23° 22' 37.243"	82° 46' 44.076"
P-101	23° 22' 36.967"	82° 46' 44.958"
P-102	23° 22' 36.501"	82° 46' 46.536"
P-103	23° 22' 36.269"	82° 46' 47.389"
P-104	23° 22' 36.191"	82° 46' 47.668"
P-105	23° 22' 35.766"	82° 46' 49.288"
P-106	23° 22' 35.559"	82° 46' 50.473"
P-107	23° 22' 35.380"	82° 46' 51.647"
P-108	23° 22' 35.145"	82° 46' 53.525"
P-109	23° 22' 35.042"	82° 46' 54.689"
P-110	23° 22' 34.960"	82° 46' 55.602"
P-111	23° 22' 34.786"	82° 46' 58.816"
P-112	23° 22' 34.736"	82° 46' 59.978"
P-113	23° 22' 34.696"	82° 47' 0.941"
P-114	23° 22' 34.503"	82° 47' 3.953"
P-115	23° 22' 34.508"	82° 47' 5.788"
P-116	23° 22' 34.395"	82° 47' 8.188"
P-117	23° 22' 34.049"	82° 47' 12.805"
P-118	23° 22' 33.681"	82° 47' 16.694"
P-119	23° 22' 33.455"	82° 47' 19.038"
P-120	23° 22' 33.206"	82° 47' 21.110"
P-121	23° 22' 32.405"	82° 47' 25.834"
P-122	23° 22' 32.162"	82° 47' 26.973"
P-123	23° 22' 31.932"	82° 47' 27.841"
P-124	23° 22' 31.489"	82° 47' 30.202"
P-125	23° 22' 31.215"	82° 47' 31.397"
P-126	23° 22' 29.696"	82° 47' 36.811"
P-127	23° 22' 29.232"	82° 47' 38.382"
P-128	23° 22' 28.905"	82° 47' 39.373"
P-129	23° 22' 27.500"	82° 47' 43.181"
P-130	23° 22' 26.866"	82° 47' 44.661"
P-131	23° 22' 26.148"	82° 47' 46.223"
P-132	23° 22' 25.591"	82° 47' 47.334"
P-133	23° 22' 23.382"	82° 47' 51.606"
P-134	23° 22' 22.035"	82° 47' 54.559"
P-135	23° 22' 4.340"	82° 48' 8.481"
P-136	23° 22' 4.243"	82° 48' 8.245"
P-137	23° 22' 3.910"	82° 48' 7.119"
P-138	23° 22' 3.789"	82° 48' 6.763"
P-139	23° 22' 3.704"	82° 48' 6.293"
P-140	23° 22' 3.608"	82° 48' 5.894"
P-141	23° 22' 3.543"	82° 48' 5.474"
P-142	23° 22' 3.487"	82° 48' 5.233"
P-143	23° 22' 3.350"	82° 48' 4.528"
P-144	23° 22' 3.261"	82° 48' 4.062"
P-145	23° 22' 3.225"	82° 48' 3.738"
P-146	23° 22' 3.179"	82° 48' 3.471"
P-147	23° 22' 3.117"	82° 48' 3.014"
P-148	23° 22' 3.029"	82° 48' 2.413"
P-149	23° 22' 2.983"	82° 48' 1.885"
P-150	23° 22' 2.841"	82° 48' 1.487"
P-151	23° 22' 2.796"	82° 48' 1.096"
P-152	23° 22' 2.720"	82° 48' 0.201"
P-153	23° 22' 2.563"	82° 47' 58.851"
P-154	23° 22' 2.562"	82° 47' 58.213"
P-155	23° 22' 2.554"	82° 47' 57.720"
P-156	23° 22' 2.528"	82° 47' 57.180"
P-157	23° 22' 2.473"	82° 47' 56.687"
P-158	23° 22' 2.439"	82° 47' 56.175"
P-159	23° 22' 2.314"	82° 47' 55.460"
P-160	23° 22' 2.030"	82° 47' 54.616"
P-161	23° 22' 1.799"	82° 47' 53.859"
P-162	23° 22' 1.595"	82° 47' 53.271"
P-163	23° 22' 1.379"	82° 47' 52.767"
P-164	23° 22' 1.062"	82° 47' 52.226"
P-165	23° 22' 0.884"	82° 47' 51.917"
P-166	23° 22' 0.178"	82° 47' 51.308"

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POINT NO	Latitude (N)	Longitud (E)
P-167	23° 21' 59.755"	82° 47' 50.999"
P-168	23° 21' 59.303"	82° 47' 50.761"
P-169	23° 21' 59.088"	82° 47' 50.625"
P-170	23° 21' 59.235"	82° 47' 50.184"
P-171	23° 22' 1.564"	82° 47' 43.725"
P-172	23° 22' 2.046"	82° 47' 42.432"
P-173	23° 22' 2.639"	82° 47' 40.822"
P-174	23° 22' 3.915"	82° 47' 37.364"
P-175	23° 22' 3.688"	82° 47' 37.481"
P-176	23° 22' 3.059"	82° 47' 37.932"
P-177	23° 22' 2.473"	82° 47' 38.362"
P-178	23° 22' 1.673"	82° 47' 38.727"
P-179	23° 22' 1.483"	82° 47' 38.810"
P-180	23° 22' 1.236"	82° 47' 38.861"
P-181	23° 22' 1.009"	82° 47' 38.882"
P-182	23° 22' 0.893"	82° 47' 38.854"
P-183	23° 22' 0.724"	82° 47' 38.810"
P-184	23° 22' 0.577"	82° 47' 38.670"
P-185	23° 22' 0.426"	82° 47' 38.435"
P-186	23° 22' 0.193"	82° 47' 38.038"
P-187	23° 21' 59.957"	82° 47' 37.613"
P-188	23° 21' 59.766"	82° 47' 37.141"
P-189	23° 21' 59.685"	82° 47' 36.660"
P-190	23° 21' 59.639"	82° 47' 35.635"
P-191	23° 21' 59.619"	82° 47' 34.613"
P-192	23° 21' 59.678"	82° 47' 34.376"
P-193	23° 21' 59.730"	82° 47' 33.754"
P-194	23° 21' 59.694"	82° 47' 33.533"
P-195	23° 21' 59.606"	82° 47' 33.338"
P-196	23° 21' 59.424"	82° 47' 33.213"
P-197	23° 21' 59.189"	82° 47' 33.149"
P-198	23° 21' 58.776"	82° 47' 33.316"
P-199	23° 21' 58.474"	82° 47' 33.534"
P-200	23° 21' 57.993"	82° 47' 33.749"
P-201	23° 21' 57.806"	82° 47' 33.836"
P-202	23° 21' 57.440"	82° 47' 33.900"
P-203	23° 21' 56.839"	82° 47' 33.780"
P-204	23° 21' 56.602"	82° 47' 33.686"
P-205	23° 21' 56.071"	82° 47' 33.338"
P-206	23° 21' 55.880"	82° 47' 33.178"
P-207	23° 21' 55.670"	82° 47' 32.941"
P-208	23° 21' 55.527"	82° 47' 32.762"
P-209	23° 21' 55.341"	82° 47' 32.444"
P-210	23° 21' 55.195"	82° 47' 32.140"
P-211	23° 21' 55.042"	82° 47' 31.752"
P-212	23° 21' 54.995"	82° 47' 31.543"
P-213	23° 21' 53.730"	82° 47' 34.900"
P-214	23° 21' 53.417"	82° 47' 35.777"
P-215	23° 21' 52.934"	82° 47' 37.196"
P-216	23° 21' 52.103"	82° 47' 39.679"
P-217	23° 21' 51.705"	82° 47' 40.874"
P-218	23° 21' 51.280"	82° 47' 42.189"
P-219	23° 21' 51.010"	82° 47' 43.257"
P-220	23° 21' 50.728"	82° 47' 44.242"
P-221	23° 21' 50.496"	82° 47' 45.006"
P-222	23° 21' 49.755"	82° 47' 47.770"
P-223	23° 21' 47.274"	82° 47' 48.454"
P-224	23° 21' 46.695"	82° 47' 48.519"
P-225	23° 21' 45.994"	82° 47' 48.597"
P-226	23° 21' 45.228"	82° 47' 48.652"
P-227	23° 21' 44.840"	82° 47' 48.547"
P-228	23° 21' 44.214"	82° 47' 48.251"
P-229	23° 21' 44.043"	82° 47' 48.093"
P-230	23° 21' 43.743"	82° 47' 47.555"
P-231	23° 21' 43.318"	82° 47' 46.519"
P-232	23° 21' 43.042"	82° 47' 45.482"
P-233	23° 21' 42.901"	82° 47' 44.973"
P-234	23° 21' 42.534"	82° 47' 44.252"

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POINT NO	Latitude (N)	Longitud (E)
P-235	23° 21' 42.269"	82° 47' 43.809"
P-236	23° 21' 41.812"	82° 47' 43.245"
P-237	23° 21' 40.944"	82° 47' 42.597"
P-238	23° 21' 39.689"	82° 47' 41.878"
P-239	23° 21' 38.779"	82° 47' 41.593"
P-240	23° 21' 37.954"	82° 47' 41.452"
P-241	23° 21' 36.896"	82° 47' 41.374"
P-242	23° 21' 36.506"	82° 47' 41.309"
P-243	23° 21' 35.974"	82° 47' 41.199"
P-244	23° 21' 35.389"	82° 47' 41.073"
P-245	23° 21' 34.846"	82° 47' 40.970"
P-246	23° 21' 34.076"	82° 47' 41.041"
P-247	23° 21' 33.687"	82° 47' 41.019"
P-248	23° 21' 33.080"	82° 47' 41.011"
P-249	23° 21' 31.808"	82° 47' 40.972"
P-250	23° 21' 30.939"	82° 47' 40.976"
P-251	23° 21' 30.815"	82° 47' 40.927"
P-252	23° 21' 30.359"	82° 47' 40.532"
P-253	23° 21' 30.158"	82° 47' 40.351"
P-254	23° 21' 29.651"	82° 47' 39.913"
P-255	23° 21' 29.221"	82° 47' 39.475"
P-256	23° 21' 28.882"	82° 47' 39.016"
P-257	23° 21' 28.611"	82° 47' 38.473"
P-258	23° 21' 28.439"	82° 47' 38.160"
P-259	23° 21' 28.256"	82° 47' 37.726"
P-260	23° 21' 28.053"	82° 47' 37.188"
P-261	23° 21' 28.048"	82° 47' 36.971"
P-262	23° 21' 28.070"	82° 47' 36.668"
P-263	23° 21' 28.126"	82° 47' 36.409"
P-264	23° 21' 28.303"	82° 47' 35.731"
P-265	23° 21' 28.378"	82° 47' 35.411"
P-266	23° 21' 28.486"	82° 47' 35.120"
P-267	23° 21' 28.631"	82° 47' 34.728"
P-268	23° 21' 28.766"	82° 47' 34.388"
P-269	23° 21' 29.024"	82° 47' 33.860"
P-270	23° 21' 29.247"	82° 47' 33.510"
P-271	23° 21' 29.586"	82° 47' 33.042"
P-272	23° 21' 30.219"	82° 47' 32.142"
P-273	23° 21' 30.310"	82° 47' 31.984"
P-274	23° 21' 30.376"	82° 47' 31.763"
P-275	23° 21' 30.451"	82° 47' 31.446"
P-276	23° 21' 30.447"	82° 47' 31.180"
P-277	23° 21' 30.385"	82° 47' 31.077"
P-278	23° 21' 30.241"	82° 47' 30.886"
P-279	23° 21' 29.849"	82° 47' 30.441"
P-280	23° 21' 29.355"	82° 47' 29.764"
P-281	23° 21' 28.809"	82° 47' 28.903"
P-282	23° 21' 27.852"	82° 47' 27.395"
P-283	23° 21' 27.410"	82° 47' 26.314"
P-284	23° 21' 27.348"	82° 47' 26.034"
P-285	23° 21' 27.233"	82° 47' 25.230"
P-286	23° 21' 27.009"	82° 47' 23.387"
P-287	23° 21' 26.927"	82° 47' 22.220"
P-288	23° 21' 26.872"	82° 47' 21.210"
P-289	23° 21' 26.867"	82° 47' 19.707"
P-290	23° 21' 26.931"	82° 47' 18.970"
P-291	23° 21' 27.009"	82° 47' 17.738"
P-292	23° 21' 27.118"	82° 47' 16.808"
P-293	23° 21' 27.253"	82° 47' 15.812"
P-294	23° 21' 27.485"	82° 47' 13.334"
P-295	23° 21' 27.649"	82° 47' 11.528"
P-296	23° 21' 27.883"	82° 47' 9.781"
P-297	23° 21' 28.024"	82° 47' 8.614"
P-298	23° 21' 28.280"	82° 47' 7.560"
P-299	23° 21' 28.554"	82° 47' 6.183"
P-300	23° 21' 30.062"	82° 47' 1.204"
P-301	23° 21' 30.655"	82° 46' 59.440"
P-302	23° 21' 31.375"	82° 46' 57.663"

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POINT NO	Latitude (N)	Longitud (E)
P-303	23° 21' 32.309"	82° 46' 55.249"
P-304	23° 21' 33.540"	82° 46' 52.358"
P-305	23° 21' 34.224"	82° 46' 50.673"
P-306	23° 21' 34.830"	82° 46' 48.876"
P-307	23° 21' 35.184"	82° 46' 48.006"
P-308	23° 21' 35.841"	82° 46' 46.125"
P-309	23° 21' 36.295"	82° 46' 44.750"
P-310	23° 21' 36.518"	82° 46' 43.489"
P-311	23° 21' 37.274"	82° 46' 40.303"
P-312	23° 21' 37.851"	82° 46' 38.518"
P-313	23° 21' 37.974"	82° 46' 37.572"
P-314	23° 21' 38.174"	82° 46' 36.268"
P-315	23° 21' 38.452"	82° 46' 34.659"
P-316	23° 21' 38.838"	82° 46' 32.778"
P-317	23° 21' 39.121"	82° 46' 30.474"
P-318	23° 21' 39.318"	82° 46' 29.716"
P-319	23° 21' 40.515"	82° 46' 28.089"
P-320	23° 21' 40.844"	82° 46' 27.079"
P-321	23° 21' 41.037"	82° 46' 26.531"
P-322	23° 21' 41.072"	82° 46' 25.896"
P-323	23° 21' 41.126"	82° 46' 25.417"
P-324	23° 21' 41.204"	82° 46' 25.087"
P-325	23° 21' 41.397"	82° 46' 24.463"
P-326	23° 21' 41.514"	82° 46' 23.816"
P-327	23° 21' 41.666"	82° 46' 23.036"
P-328	23° 21' 41.751"	82° 46' 22.350"
P-329	23° 21' 41.891"	82° 46' 21.757"
P-330	23° 21' 41.966"	82° 46' 21.337"
P-331	23° 21' 42.013"	82° 46' 20.704"
P-332	23° 21' 42.103"	82° 46' 20.101"
P-333	23° 21' 42.164"	82° 46' 19.547"
P-334	23° 21' 42.264"	82° 46' 19.237"
P-335	23° 21' 42.345"	82° 46' 19.090"
P-336	23° 21' 42.434"	82° 46' 19.008"
P-337	23° 21' 42.534"	82° 46' 18.926"
P-338	23° 21' 42.613"	82° 46' 18.810"
P-339	23° 21' 42.735"	82° 46' 18.626"
P-340	23° 21' 42.846"	82° 46' 18.363"
P-341	23° 21' 42.946"	82° 46' 18.053"
P-342	23° 21' 43.221"	82° 46' 17.402"
P-343	23° 21' 43.399"	82° 46' 17.104"
P-344	23° 21' 43.698"	82° 46' 16.928"
P-345	23° 21' 43.968"	82° 46' 16.799"
P-346	23° 21' 44.333"	82° 46' 16.617"
P-347	23° 21' 44.453"	82° 46' 16.560"
P-348	23° 21' 44.542"	82° 46' 16.489"
P-349	23° 21' 44.588"	82° 46' 16.391"
P-350	23° 21' 44.518"	82° 46' 16.309"
P-351	23° 21' 44.349"	82° 46' 16.240"
P-352	23° 21' 44.023"	82° 46' 16.124"
P-353	23° 21' 43.762"	82° 46' 16.019"
P-354	23° 21' 43.334"	82° 46' 15.838"
P-355	23° 21' 43.074"	82° 46' 15.663"
P-356	23° 21' 42.846"	82° 46' 15.450"
P-357	23° 21' 42.491"	82° 46' 14.985"
P-358	23° 21' 41.986"	82° 46' 14.599"
P-359	23° 21' 41.112"	82° 46' 13.782"
P-360	23° 21' 40.689"	82° 46' 13.363"
P-361	23° 21' 40.218"	82° 46' 12.854"
P-362	23° 21' 39.858"	82° 46' 12.466"
P-363	23° 21' 37.906"	82° 46' 10.297"
P-364	23° 21' 37.576"	82° 46' 9.928"

1.4 Details of the Previous Approval of Mining Plan:

S.No	Parameters	Details

Prepared By Awadhesh Kumar Sinha On 12/05/2022

<table>
<tr><td>1.4.1</td><td>Date of approval :</td><td>10/03/2022</td></tr>
<tr><td></td><td>Copy of earlier approval of mining plan Upload document</td><td>Annexure 4 : Document shown in annexure section.</td></tr>
<tr><td>1.4.2</td><td>Conditions, if any</td><td>
<table>
<tr><th>S.No.</th><th>Conditions</th><th>Compliance Status</th></tr>
<tr><td>1</td><td>The Project Proponent should ensure implementation of all observations made by internal committee during actual operation.</td><td>Agreed</td></tr>
<tr><td>2</td><td>Project Proponent shall take all necessary precautions regarding safety of mine workings and persons deployed therein.</td><td>Agreed</td></tr>
<tr><td>3</td><td>Mining lease of this block shall not encroach into any other adjacent coal block.</td><td>Agreed</td></tr>
<tr><td>4</td><td>The cost of abandonment for carrying out the closure activities envisaged in mine closure is indicative. The actual cost for carrying out the activities at the time of final closure may be higher. The actual cost of abandonment will have to be borne by the project proponent for carrying out closure activities.</td><td>Agreed</td></tr>
<tr><td>5</td><td>The approval of the Mining Plan (including Mine Closure Plan) in without prejudice to the requirement of approvals from competent / prescribed authority under the relevant rules/ regulations etc.</td><td>Agreed</td></tr>
<tr><td>6</td><td>Approval of Mining Plan is technical in nature, which is granted with a view to facilitating further developmental activities by the allocattee. This approval will have no effect on the penalty provisions of the agreement in case of non achievement of Milestones.</td><td>Agreed</td></tr>
<tr><td>7</td><td>Monitoring of milestones for development of mine will be as per the efficiency parameters in CBDPA / CMDPA and appropriation of PBG will be done in case of failure / delay in compliance with the timelines of CBDPA / CMDPA.</td><td>Agreed</td></tr>
<tr><td>8</td><td>Approval of Mining and Mine Closure plan is restricted to the activities/structures/evacuation route/roads/water bodies/other surface features/land outline/infrastructure within the Geological Block/project area. Other activities/structures/evacuation route/roads/water bodies/other surface features/land outline/infrastructure outside the Geological Block/project area shall not be part of the mining plan (in line with para 1.6 of MoC guidelines for preparation of Mining Plan dated 29.05.2020.</td><td>Agreed</td></tr>
<tr><td>9</td><td>In the report, future plan of exploration has been proposed (refer para 2.2.9 of the Mining Plan). Also, it has been proposed that a revised Mining Plan, further detailing of Mining Scheme (as per guidelines of MoC for Mining Plan dated 20.05.2020) for underground mining, would be submitted in Y-6 (refer Additional Annexure-11 of the Mining Plan) as production from underground has been proposed from Y-8 year (Yr. 2030-31). The PP shall submit a Revised MP latest by Y-6.....</td><td>Commitment Given in Annexure XV</td></tr>
<tr><td>10</td><td>In the report, realignment of the diverted nala has been proposed, nearing exhaustion of Quarry-NW, to free the blocked reserves. Proper scientific studies shall be done in this regard. The project proponent shall submit a Revised Mining Plan incorporating the liquidation program of the aforesaid reserves also.</td><td>Commitment Given in Annexure XV</td></tr>
</table>
</td></tr>
<tr><td>1.4.3</td><td>Scheduled year of start of production.</td><td>2023-24</td></tr>
<tr><td>1.4.4</td><td>Proposed year of achieving the targeted production</td><td>Targeted coal production achieved in 3rd year i.e. 2025-26.</td></tr>
<tr><td>1.4.5</td><td>Date of actual commencement of mining operations, if operations already started.</td><td>01/03/2023</td></tr>
<tr><td>1.4.6</td><td>Likely date of mining operations, if operations not yet started & reasons for non-commencement of operations.</td><td>Non Operational

Starting of Mining operation will be from 01.03.2023.</td></tr>
<tr><td>1.4.8</td><td>Statutory obligations vis-à-vis compliance status in a tabular form</td><td></td></tr>
<tr><td>1.4.9</td><td>Reasons for difference between the planned and actual production levels</td><td>Not applicable (mine not operational as yet)</td></tr>
</table>

1.5 PARAMETERS OF APPROVED MINING PLAN VIS-Ã-VIS PROPOSED MINING PLAN :

S.No	Block Area	Approved Mining Plan	Proposed Mining Plan
1.5.1	Geological Block Area HA	932.000	932.0000
1.5.2	Geological Block Area Projectised HA	932.000	932.0000
1.5.3	Lease area HA	932.00	932.0000
1.5.4	Project area HA	932.000	932.0000
1.5.5	Life of the Project Yrs.	31	28
1.5.6	Minimum and Maximum Depth of working	15 m and 65 m for OC 60 m and 135 m for UG Mine	15 m and 65 m for OC 60 m and 135 m for UG Mine
1.5.7	Geological Block Area yet to be projectised “Ha”	00	0.00
1.5.8	Production Target MTP	1.00	1.0000
1.5.9	Seams Available As per GR	Seam V, Seam IVA, Seam IVB, Seam III, Seam IITC, Seam IIB, Seam I	Seam V,Seam IVA,Seam IVB,Seam III,Seam IIT/C,Seam IIB,Seam I
1.5.10	Seams not considered for Mining with Reasons		<table><tr><th>S. No</th><th>Seams</th><th>Reason</th></tr><tr><td>1</td><td>Seam IIB</td><td>Generally Non persistent and non workable</td></tr><tr><td>2</td><td>Seam I</td><td>Generally Non persistent and non workable</td></tr></table>
1.5.11	Gross Geological Reserve Mte	46.91	46.910
1.5.12	Net Geological Reserve Mte	46.91	46.9100
1.5.13	Blocked Reserve Mte	5.14	5.8700
1.5.14	Minable Reserve Mte	42.98	27.7500
1.5.15	Extractable Reserve Mte	24.17	24.1700
1.5.16	% of Extraction/ recovery	51.524%	51.5240%
1.5.17	Reserve Depleted (till the base date) Reserves Mte	00	0.0000
1.5.18	Balance Extractable Reserve Mte	24.1700	24.1700
1.5.19	Average Grade		5006.0000
1.5.20	OB in MM3	157.770	161.2200
1.5.21	SR M3/te	8.4054	8.5032
1.5.22	Mining Technology	For OB Diesel Hydraulic Excavator with dumper For Coal Combination of FrontEnd Loader and Hydraulic Excavator with Dumper	For OB Diesel Hydraulic Excavator with dumper For Coal Combination of FrontEnd Loader and Hydraulic Excavator with Dumper
1.5.23	Coal Beneficiation envisaged		
1.5.24	Handling of Rejects	Not Applicable	Not Applicable
1.5.25	Land use pattern “ Ha“		
1	Excavation Area	446.52	457.3660
2	Top Soil Dump	10.600	10.6000
3	External Dump	95.05	84.3300
4	Safety Zone	13.33	13.3300
5	Other Use		4.1850
6	Infrastructure area	10.60	6.2900
7	Green Belt		0.0000
8	Undisturbed Area	355.9	355.8990
Total		932.0000	932.0000
1.5.26	Reasons for revision		One of the Specific condition no. v included in the Issued ToR dated 31.01.2022 i.e. "PP may revise Mine Plan, if required to commence mining from Q-NE side and then start mining operations in Q-NW to avoid initial land deformation".

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Chapter-2: Exploration,Geology, Seam Sequence, Coal Quality and Reserve

2.1 Details of the block

S.No	Parameters	Details
2.1.1	Particulars of adjacent blocks: North, South, East, West	North: Nil East: Nil South: Nil West: Girjapur Coal Block
2.1.2	Location of the Block	The Bhaskarpara Coal Block is located in the central part of the Jhillimili Coalfield in Surajpur District of Chhattisgarh state.
	State	Chhattisgarh
	District	Surajpur
2.1.3	Area of the Block “Ha”	932.00
2.1.4	Area of the geological block projectized in “Ha” (Area of the geological block considered for liquidation of coal reserve)	932.00
2.1.5	Balance area yet to be projectized “Ha”	00
2.1.6	Likely Reserve in the area yet to be projectized “Mte”	00
2.1.7	Cardinal Point Co-ordinates of the non-coal/lignite bearing area/existing mining lease outside the allotted Geological Coal/Lignite block	Project Area is confined within the allotted block boundary cardinal points datas shown below
	(Duly certified in line with para 1.9 of the Guideline, if fresh minning lease required)	Cardinal Points files data shown below
2.1.8	Certificate of Qualified person/ Accredited Mining Plan preparing agency (MPPA)if the project area is confined within the vested/allotted block boundary/existing mining lease and Cardinal Points Co-ordinates of the Proposed area outside the non-coal/lignite bearing area outside the allotted Geological Coal/Lignite block	Annexure 2A: Document shown in annexure section. Annexure 2B: Document shown in annexure section. The Project area, Lease area and geological block area in Ha shall also be envisaged.: Certificate of qualified person stating that the project area is confined within the vested block boundary is attached.
2.1.9	KML file of the Proposed lease area, Project Area and geological block.	File attached in Plates section below.
2.1.10	Whether the proposed project area is confined within the allotted block boundary/existing mining lease, if not, the reason for deviation from allotted block boundary, may be given.	Project area does not extend outside block boundary.
2.1.11	If the project area extends outside the allotted block boundary/existing mining lease, confirmation about non-occurrence of coal/lignite in the area under reference needs to be furnished	Not applicable
2.1.12(1)	Year of Starting.	2023
2.1.12(2)	Type of the Project.	This is a new coal mine project.

(Duly certified in line with para 1.9 of the Guideline, if fresh minning lease required) :

POINT NO	Latitude (N)	Longitud (E)
P-1	23° 21' 37.318"	82° 46' 9.651"
P-2	23° 21' 36.922"	82° 46' 8.304"
P-3	23° 21' 36.173"	82° 46' 4.592"
P-4	23° 21' 35.966"	82° 46' 2.687"
P-5	23° 21' 35.917"	82° 46' 1.385"
P-6	23° 21' 35.975"	82° 46' 0.302"

POINT NO	Latitude (N)	Longitud (E)
P-7	23° 21' 35.718"	82° 45' 59.156"
P-8	23° 21' 35.390"	82° 45' 57.673"
P-9	23° 21' 35.143"	82° 45' 56.523"
P-10	23° 21' 35.028"	82° 45' 56.017"
P-11	23° 21' 34.892"	82° 45' 54.735"
P-12	23° 21' 34.783"	82° 45' 53.297"
P-13	23° 21' 34.688"	82° 45' 50.985"
P-14	23° 21' 34.652"	82° 45' 49.500"
P-15	23° 21' 34.628"	82° 45' 48.965"
P-16	23° 21' 34.568"	82° 45' 47.086"
P-17	23° 21' 34.537"	82° 45' 46.712"
P-18	23° 21' 34.525"	82° 45' 45.983"
P-19	23° 21' 34.436"	82° 45' 45.326"
P-20	23° 21' 34.371"	82° 45' 44.411"
P-21	23° 21' 34.257"	82° 45' 43.460"
P-22	23° 21' 34.081"	82° 45' 42.180"
P-23	23° 21' 33.984"	82° 45' 41.505"
P-24	23° 21' 33.914"	82° 45' 41.020"
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P-34	23° 21' 31.629"	82° 45' 34.635"
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P-41	23° 21' 28.253"	82° 45' 26.555"
P-42	23° 21' 28.109"	82° 45' 26.256"
P-43	23° 21' 27.653"	82° 45' 23.599"
P-44	23° 21' 27.501"	82° 45' 22.916"
P-45	23° 21' 27.317"	82° 45' 21.741"
P-46	23° 21' 27.182"	82° 45' 20.832"
P-47	23° 21' 27.090"	82° 45' 20.354"
P-48	23° 21' 26.889"	82° 45' 19.609"
P-49	23° 21' 26.654"	82° 45' 18.855"
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P-52	23° 21' 25.621"	82° 45' 16.393"
P-53	23° 21' 25.002"	82° 45' 15.244"
P-54	23° 21' 24.443"	82° 45' 14.217"
P-55	23° 21' 23.954"	82° 45' 13.410"
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P-67	23° 22' 40.895"	82° 45' 16.593"
P-68	23° 22' 41.379"	82° 45' 20.619"
P-69	23° 22' 41.506"	82° 45' 23.823"
P-70	23° 22' 41.336"	82° 45' 28.322"
P-71	23° 22' 41.213"	82° 45' 30.928"
P-72	23° 22' 41.025"	82° 45' 35.305"
P-73	23° 22' 41.232"	82° 45' 40.046"
P-74	23° 22' 41.273"	82° 45' 42.624"

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POINT NO	Latitude (N)	Longitud (E)
P-75	23° 22' 41.426"	82° 45' 45.914"
P-76	23° 22' 41.481"	82° 45' 50.127"
P-77	23° 22' 41.437"	82° 45' 51.723"
P-78	23° 22' 41.390"	82° 45' 53.788"
P-79	23° 22' 41.390"	82° 45' 55.135"
P-80	23° 22' 41.441"	82° 45' 57.322"
P-81	23° 22' 41.477"	82° 45' 58.221"
P-82	23° 22' 41.558"	82° 45' 59.511"
P-83	23° 22' 41.590"	82° 46' 0.166"
P-84	23° 22' 41.671"	82° 46' 2.150"
P-85	23° 22' 41.713"	82° 46' 3.114"
P-86	23° 22' 41.786"	82° 46' 6.001"
P-87	23° 22' 41.814"	82° 46' 9.968"
P-88	23° 22' 41.805"	82° 46' 10.969"
P-89	23° 22' 41.664"	82° 46' 13.969"
P-90	23° 22' 41.589"	82° 46' 15.679"
P-91	23° 22' 41.556"	82° 46' 16.431"
P-92	23° 22' 41.321"	82° 46' 20.639"
P-93	23° 22' 41.198"	82° 46' 21.951"
P-94	23° 22' 41.085"	82° 46' 22.937"
P-95	23° 22' 40.788"	82° 46' 27.542"
P-96	23° 22' 40.696"	82° 46' 28.806"
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P-107	23° 22' 35.380"	82° 46' 51.647"
P-108	23° 22' 35.145"	82° 46' 53.525"
P-109	23° 22' 35.042"	82° 46' 54.689"
P-110	23° 22' 34.960"	82° 46' 55.602"
P-111	23° 22' 34.786"	82° 46' 58.816"
P-112	23° 22' 34.736"	82° 46' 59.978"
P-113	23° 22' 34.696"	82° 47' 0.941"
P-114	23° 22' 34.503"	82° 47' 3.953"
P-115	23° 22' 34.508"	82° 47' 5.788"
P-116	23° 22' 34.395"	82° 47' 8.188"
P-117	23° 22' 34.049"	82° 47' 12.805"
P-118	23° 22' 33.681"	82° 47' 16.694"
P-119	23° 22' 33.455"	82° 47' 19.038"
P-120	23° 22' 33.206"	82° 47' 21.110"
P-121	23° 22' 32.405"	82° 47' 25.834"
P-122	23° 22' 32.162"	82° 47' 26.973"
P-123	23° 22' 31.932"	82° 47' 27.841"
P-124	23° 22' 31.489"	82° 47' 30.202"
P-125	23° 22' 31.215"	82° 47' 31.397"
P-126	23° 22' 29.696"	82° 47' 36.811"
P-127	23° 22' 29.232"	82° 47' 38.382"
P-128	23° 22' 28.905"	82° 47' 39.373"
P-129	23° 22' 27.500"	82° 47' 43.181"
P-130	23° 22' 26.866"	82° 47' 44.661"
P-131	23° 22' 26.148"	82° 47' 46.223"
P-132	23° 22' 25.591"	82° 47' 47.334"
P-133	23° 22' 23.382"	82° 47' 51.606"
P-134	23° 22' 22.035"	82° 47' 54.559"
P-135	23° 22' 4.340"	82° 48' 8.481"
P-136	23° 22' 4.243"	82° 48' 8.245"
P-137	23° 22' 3.910"	82° 48' 7.119"
P-138	23° 22' 3.789"	82° 48' 6.763"
P-139	23° 22' 3.704"	82° 48' 6.293"
P-140	23° 22' 3.608"	82° 48' 5.894"
P-141	23° 22' 3.543"	82° 48' 5.474"
P-142	23° 22' 3.487"	82° 48' 5.233"

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POINT NO	Latitude (N)	Longitud (E)
P-143	23° 22' 3.350"	82° 48' 4.528"
P-144	23° 22' 3.261"	82° 48' 4.062"
P-145	23° 22' 3.225"	82° 48' 3.738"
P-146	23° 22' 3.179"	82° 48' 3.471"
P-147	23° 22' 3.117"	82° 48' 3.014"
P-148	23° 22' 3.029"	82° 48' 2.413"
P-149	23° 22' 2.983"	82° 48' 1.885"
P-150	23° 22' 2.841"	82° 48' 1.487"
P-151	23° 22' 2.796"	82° 48' 1.096"
P-152	23° 22' 2.720"	82° 48' 0.201"
P-153	23° 22' 2.563"	82° 47' 58.851"
P-154	23° 22' 2.562"	82° 47' 58.213"
P-155	23° 22' 2.554"	82° 47' 57.720"
P-156	23° 22' 2.528"	82° 47' 57.180"
P-157	23° 22' 2.473"	82° 47' 56.687"
P-158	23° 22' 2.439"	82° 47' 56.175"
P-159	23° 22' 2.314"	82° 47' 55.460"
P-160	23° 22' 2.030"	82° 47' 54.616"
P-161	23° 22' 1.799"	82° 47' 53.859"
P-162	23° 22' 1.595"	82° 47' 53.271"
P-163	23° 22' 1.379"	82° 47' 52.767"
P-164	23° 22' 1.062"	82° 47' 52.226"
P-165	23° 22' 0.884"	82° 47' 51.917"
P-166	23° 22' 0.178"	82° 47' 51.308"
P-167	23° 21' 59.755"	82° 47' 50.999"
P-168	23° 21' 59.303"	82° 47' 50.761"
P-169	23° 21' 59.088"	82° 47' 50.625"
P-170	23° 21' 59.235"	82° 47' 50.184"
P-171	23° 22' 1.564"	82° 47' 43.725"
P-172	23° 22' 2.046"	82° 47' 42.432"
P-173	23° 22' 2.639"	82° 47' 40.822"
P-174	23° 22' 3.915"	82° 47' 37.364"
P-175	23° 22' 3.688"	82° 47' 37.481"
P-176	23° 22' 3.059"	82° 47' 37.932"
P-177	23° 22' 2.473"	82° 47' 38.362"
P-178	23° 22' 1.673"	82° 47' 38.727"
P-179	23° 22' 1.483"	82° 47' 38.810"
P-180	23° 22' 1.236"	82° 47' 38.861"
P-181	23° 22' 1.009"	82° 47' 38.882"
P-182	23° 22' 0.893"	82° 47' 38.854"
P-183	23° 22' 0.724"	82° 47' 38.810"
P-184	23° 22' 0.577"	82° 47' 38.670"
P-185	23° 22' 0.426"	82° 47' 38.435"
P-186	23° 22' 0.193"	82° 47' 38.038"
P-187	23° 21' 59.957"	82° 47' 37.613"
P-188	23° 21' 59.766"	82° 47' 37.141"
P-189	23° 21' 59.685"	82° 47' 36.660"
P-190	23° 21' 59.639"	82° 47' 35.635"
P-191	23° 21' 59.619"	82° 47' 34.613"
P-192	23° 21' 59.678"	82° 47' 34.376"
P-193	23° 21' 59.730"	82° 47' 33.754"
P-194	23° 21' 59.694"	82° 47' 33.533"
P-195	23° 21' 59.606"	82° 47' 33.338"
P-196	23° 21' 59.424"	82° 47' 33.213"
P-197	23° 21' 59.189"	82° 47' 33.149"
P-198	23° 21' 58.776"	82° 47' 33.316"
P-199	23° 21' 58.474"	82° 47' 33.534"
P-200	23° 21' 57.993"	82° 47' 33.749"
P-201	23° 21' 57.806"	82° 47' 33.836"
P-202	23° 21' 57.440"	82° 47' 33.900"
P-203	23° 21' 56.839"	82° 47' 33.780"
P-204	23° 21' 56.602"	82° 47' 33.686"
P-205	23° 21' 56.071"	82° 47' 33.338"
P-206	23° 21' 55.880"	82° 47' 33.178"
P-207	23° 21' 55.670"	82° 47' 32.941"
P-208	23° 21' 55.527"	82° 47' 32.762"
P-209	23° 21' 55.341"	82° 47' 32.444"
P-210	23° 21' 55.195"	82° 47' 32.140"

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POINT NO	Latitude (N)	Longitud (E)
P-211	23° 21' 55.042"	82° 47' 31.752"
P-212	23° 21' 54.995"	82° 47' 31.543"
P-213	23° 21' 53.730"	82° 47' 34.900"
P-214	23° 21' 53.417"	82° 47' 35.777"
P-215	23° 21' 52.934"	82° 47' 37.196"
P-216	23° 21' 52.103"	82° 47' 39.679"
P-217	23° 21' 51.705"	82° 47' 40.874"
P-218	23° 21' 51.280"	82° 47' 42.189"
P-219	23° 21' 51.010"	82° 47' 43.257"
P-220	23° 21' 50.728"	82° 47' 44.242"
P-221	23° 21' 50.496"	82° 47' 45.006"
P-222	23° 21' 49.755"	82° 47' 47.770"
P-223	23° 21' 47.274"	82° 47' 48.454"
P-224	23° 21' 46.695"	82° 47' 48.519"
P-225	23° 21' 45.994"	82° 47' 48.597"
P-226	23° 21' 45.228"	82° 47' 48.652"
P-227	23° 21' 44.840"	82° 47' 48.547"
P-228	23° 21' 44.214"	82° 47' 48.251"
P-229	23° 21' 44.043"	82° 47' 48.093"
P-230	23° 21' 43.743"	82° 47' 47.555"
P-231	23° 21' 43.318"	82° 47' 46.519"
P-232	23° 21' 43.042"	82° 47' 45.482"
P-233	23° 21' 42.901"	82° 47' 44.973"
P-234	23° 21' 42.534"	82° 47' 44.252"
P-235	23° 21' 42.269"	82° 47' 43.809"
P-236	23° 21' 41.812"	82° 47' 43.245"
P-237	23° 21' 40.944"	82° 47' 42.597"
P-238	23° 21' 39.689"	82° 47' 41.878"
P-239	23° 21' 38.779"	82° 47' 41.593"
P-240	23° 21' 37.954"	82° 47' 41.452"
P-241	23° 21' 36.896"	82° 47' 41.374"
P-242	23° 21' 36.506"	82° 47' 41.309"
P-243	23° 21' 35.974"	82° 47' 41.199"
P-244	23° 21' 35.389"	82° 47' 41.073"
P-245	23° 21' 34.846"	82° 47' 40.970"
P-246	23° 21' 34.076"	82° 47' 41.041"
P-247	23° 21' 33.687"	82° 47' 41.019"
P-248	23° 21' 33.080"	82° 47' 41.011"
P-249	23° 21' 31.808"	82° 47' 40.972"
P-250	23° 21' 30.939"	82° 47' 40.976"
P-251	23° 21' 30.815"	82° 47' 40.927"
P-252	23° 21' 30.359"	82° 47' 40.532"
P-253	23° 21' 30.158"	82° 47' 40.351"
P-254	23° 21' 29.651"	82° 47' 39.913"
P-255	23° 21' 29.221"	82° 47' 39.475"
P-256	23° 21' 28.882"	82° 47' 39.016"
P-257	23° 21' 28.611"	82° 47' 38.473"
P-258	23° 21' 28.439"	82° 47' 38.160"
P-259	23° 21' 28.256"	82° 47' 37.726"
P-260	23° 21' 28.053"	82° 47' 37.188"
P-261	23° 21' 28.048"	82° 47' 36.971"
P-262	23° 21' 28.070"	82° 47' 36.668"
P-263	23° 21' 28.126"	82° 47' 36.409"
P-264	23° 21' 28.303"	82° 47' 35.731"
P-265	23° 21' 28.378"	82° 47' 35.411"
P-266	23° 21' 28.486"	82° 47' 35.120"
P-267	23° 21' 28.631"	82° 47' 34.728"
P-268	23° 21' 28.766"	82° 47' 34.388"
P-269	23° 21' 29.024"	82° 47' 33.860"
P-270	23° 21' 29.247"	82° 47' 33.510"
P-271	23° 21' 29.586"	82° 47' 33.042"
P-272	23° 21' 30.219"	82° 47' 32.142"
P-273	23° 21' 30.310"	82° 47' 31.984"
P-274	23° 21' 30.376"	82° 47' 31.763"
P-275	23° 21' 30.451"	82° 47' 31.446"
P-276	23° 21' 30.447"	82° 47' 31.180"
P-277	23° 21' 30.385"	82° 47' 31.077"
P-278	23° 21' 30.241"	82° 47' 30.886"

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POINT NO	Latitude (N)	Longitud (E)
P-279	23° 21' 29.849"	82° 47' 30.441"
P-280	23° 21' 29.355"	82° 47' 29.764"
P-281	23° 21' 28.809"	82° 47' 28.903"
P-282	23° 21' 27.852"	82° 47' 27.395"
P-283	23° 21' 27.410"	82° 47' 26.314"
P-284	23° 21' 27.348"	82° 47' 26.034"
P-285	23° 21' 27.233"	82° 47' 25.230"
P-286	23° 21' 27.009"	82° 47' 23.387"
P-287	23° 21' 26.927"	82° 47' 22.220"
P-288	23° 21' 26.872"	82° 47' 21.210"
P-289	23° 21' 26.867"	82° 47' 19.707"
P-290	23° 21' 26.931"	82° 47' 18.970"
P-291	23° 21' 27.009"	82° 47' 17.738"
P-292	23° 21' 27.118"	82° 47' 16.808"
P-293	23° 21' 27.253"	82° 47' 15.812"
P-294	23° 21' 27.485"	82° 47' 13.334"
P-295	23° 21' 27.649"	82° 47' 11.528"
P-296	23° 21' 27.883"	82° 47' 9.781"
P-297	23° 21' 28.024"	82° 47' 8.614"
P-298	23° 21' 28.280"	82° 47' 7.560"
P-299	23° 21' 28.554"	82° 47' 6.183"
P-300	23° 21' 30.062"	82° 47' 1.204"
P-301	23° 21' 30.655"	82° 46' 59.440"
P-302	23° 21' 31.375"	82° 46' 57.663"
P-303	23° 21' 32.309"	82° 46' 55.249"
P-304	23° 21' 33.540"	82° 46' 52.358"
P-305	23° 21' 34.224"	82° 46' 50.673"
P-306	23° 21' 34.830"	82° 46' 48.876"
P-307	23° 21' 35.184"	82° 46' 48.006"
P-308	23° 21' 35.841"	82° 46' 46.125"
P-309	23° 21' 36.295"	82° 46' 44.750"
P-310	23° 21' 36.518"	82° 46' 43.489"
P-311	23° 21' 37.274"	82° 46' 40.303"
P-312	23° 21' 37.851"	82° 46' 38.518"
P-313	23° 21' 37.974"	82° 46' 37.572"
P-314	23° 21' 38.174"	82° 46' 36.268"
P-315	23° 21' 38.452"	82° 46' 34.659"
P-316	23° 21' 38.838"	82° 46' 32.778"
P-317	23° 21' 39.121"	82° 46' 30.474"
P-318	23° 21' 39.318"	82° 46' 29.716"
P-319	23° 21' 40.515"	82° 46' 28.089"
P-320	23° 21' 40.844"	82° 46' 27.079"
P-321	23° 21' 41.037"	82° 46' 26.531"
P-322	23° 21' 41.072"	82° 46' 25.896"
P-323	23° 21' 41.126"	82° 46' 25.417"
P-324	23° 21' 41.204"	82° 46' 25.087"
P-325	23° 21' 41.397"	82° 46' 24.463"
P-326	23° 21' 41.514"	82° 46' 23.816"
P-327	23° 21' 41.666"	82° 46' 23.036"
P-328	23° 21' 41.751"	82° 46' 22.350"
P-329	23° 21' 41.891"	82° 46' 21.757"
P-330	23° 21' 41.966"	82° 46' 21.337"
P-331	23° 21' 42.013"	82° 46' 20.704"
P-332	23° 21' 42.103"	82° 46' 20.101"
P-333	23° 21' 42.164"	82° 46' 19.547"
P-334	23° 21' 42.264"	82° 46' 19.237"
P-335	23° 21' 42.345"	82° 46' 19.090"
P-336	23° 21' 42.434"	82° 46' 19.008"
P-337	23° 21' 42.534"	82° 46' 18.926"
P-338	23° 21' 42.613"	82° 46' 18.810"
P-339	23° 21' 42.735"	82° 46' 18.626"
P-340	23° 21' 42.846"	82° 46' 18.363"
P-341	23° 21' 42.946"	82° 46' 18.053"
P-342	23° 21' 43.221"	82° 46' 17.402"
P-343	23° 21' 43.399"	82° 46' 17.104"
P-344	23° 21' 43.698"	82° 46' 16.928"
P-345	23° 21' 43.968"	82° 46' 16.799"
P-346	23° 21' 44.333"	82° 46' 16.617"

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POINT NO	Latitude (N)	Longitud (E)
P-347	23° 21' 44.453"	82° 46' 16.560"
P-348	23° 21' 44.542"	82° 46' 16.489"
P-349	23° 21' 44.588"	82° 46' 16.391"
P-350	23° 21' 44.518"	82° 46' 16.309"
P-351	23° 21' 44.349"	82° 46' 16.240"
P-352	23° 21' 44.023"	82° 46' 16.124"
P-353	23° 21' 43.762"	82° 46' 16.019"
P-354	23° 21' 43.334"	82° 46' 15.838"
P-355	23° 21' 43.074"	82° 46' 15.663"
P-356	23° 21' 42.846"	82° 46' 15.450"
P-357	23° 21' 42.491"	82° 46' 14.985"
P-358	23° 21' 41.986"	82° 46' 14.599"
P-359	23° 21' 41.112"	82° 46' 13.782"
P-360	23° 21' 40.689"	82° 46' 13.363"
P-361	23° 21' 40.218"	82° 46' 12.854"
P-362	23° 21' 39.858"	82° 46' 12.466"
P-363	23° 21' 37.906"	82° 46' 10.297"
P-364	23° 21' 37.576"	82° 46' 9.928"

2.2 EXPLORATION, GEOLOGY AND ASSESSMENT OF RESERVE

S.No	Parameters	Details
2.2.1	Regional geological set up of the area, local geology, structure, stratigraphic sequence, characteristics of the litho-logical units (coal seams /partings/overburden).	

Age	Formation with Thickness (M)	Lithology
Upper Eocene/Lower Eocene	Deccan Trap	Dolerite sills
Upper Triassic	Mahadeva	Coarse to Medium grained highly ferruginous sandstone red shales.
---------- Unconformity ----------		
Lower Permian	Barakar	Medium to coarse grained occasionally gritty sandstone with shales and coal seams.
Upper Carboniferous Lower Permian	Talchir	Medium to fine grained sandstone needle shales and tillites.
---------- Unconformity ----------		
Pre-Cambrian		Granite, Gneisses, Chlorite-Schist, Quartzite

2.2.2	Local geology, Structure, Stratigraphic sequence, Characteristics of the litho-logical units (coal seams /partings/overburden)	

Age	Formation with Thickness (M)	Lithology
Recent/Sub Recent	Soil/Alluvium	Sandy & clayey soil
Upper Cretaceous	Basic Intrusive	Dolerite sills/dykes
---------- Unconformity ----------		
Lower Permian	Barakar	Medium to coarse grained sandstones with shale & coal seams (5 seams)
	Talchir	Fine grained sandstone with greenish and Khaki colour with shales
---------- Unconformity ----------		
Archean	Metamorphic	Granite & Gneisses

2.2.3	Geological Block Area “Ha”	932.00
2.2.4	Status of Exploration of the block	
The block is explored in detail with borehole density of 11.59 boreholes/sq.km.		
2.2.5	Area covered by “detailed” exploration within the block (sq. km)	9.32

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2.2.6	Whether entire area has been covered by a detailed exploration.	Yes entire area has been covered by detailed exploration
2.2.7	No. of boreholes drilled within the block	108
2.2.8	Whether any further exploration/study is required or suggested and time frame in which it is to be completed	Although, Bhaskarpara Coal Block is reported to be fully explored, additional exploratory drilling may be required in the area lying between Quarry NW and Quarry NE for ascertaining potential of Seam IVB, Seam IVA and Seam V.
2.2.9	Year wise future programme of exploration	Years: 2024-25 / No. of Bereholes: 10 / Meterage: 800 Years: 2024-25 / No. of Bereholes: 10 / Meterage: 800 Years: 2024-25 / No. of Bereholes: 10 / Meterage: 800
2.2.10	Overall borehole density within the block (no./ sq. km) approx	11.58
2.2.11	No of Seams available as per GR (Geological Report)	Seam V,Seam IVA,Seam IVB,Seam III,Seam IIT/C,Seam IIB,Seam I
2.2.12	Seams not considered for Mining with Reasons	Seam IIB and Seam I are not considered due to because these are generally non persistent and unworkable.
2.2.13	Dip of the Seam	In general, the general strike of the coal bearing formation is roughly E-W with local undulations and a broad synclinal structure in the south western part of the block which is very prominent in Seam IIT/C and Seam III. The dip of the coal Seams as noticed in floor contour plans varies from 9 to 10 in the eastern central part to 2 to 3 in the southern south western part of the block

2.2.14 Seam wise thickness, depth and reserve

Seamm	Thickness Range 'm'	Depth Range 'm	Net Geological Res "Mte"	Block Reserve Below "Mte"					Min Res "Mte"		Mining Losses	Ext Res "Mte"			As on base date "Mte"							Reason (For seams not considered for mining)
				High wall/ Batter	Nala/ River /Road	Barrier	Un-economic	Total Blocked	UG	OC		UG	OC	High wall	Depletion of Reserve			Balance Reserve				
															UG	OC	High wall	UG	OC	High wall	Total	
Seam V	0.50-4.11	10-25	7.49	0.05	0.13			0.1800		7.31	0.06		7.25	0	0	0	0	0.00	7.25			
Parting	7.20-15.10							0.0000										0.00	0.00			
Seam IVA	0.60-1.86	12-40	4.01	0.25	0.15			0.4000		3.46	0.10		3.36	0	0		0	0.00	3.36			
Parting	0.50-4.74							0.0000										0.00	0.00			
Seam IVB	0.60-1.38	15-60	3.18	0.21	0.28			0.4900		2.56	0.07		2.49	0	0		0	0.00	2.49			
Parting	71.49-111.61							0.0000										0.00	0.00			
Seam III	0.50-2.50	60-170	8.77			0.78	0.22	1.0000	2.00		0.60	1.40		0	0		0	1.40	0.00			
Parting	2.52-14.20							0.0000										0.00	0.00			
Seam IIT/C	0.50-4.00	10-170	23.46	0.27	0.10	1.82	1.61	3.8000	6.60	5.82	2.75	3.81	5.86	0	0		0	3.81	5.86			
Parting	0							0.0000										0.00	0.00			
Seam IIB	0	0	0	0	0	0	0	0.0000	0	0	0	00	0	0	0		0	0.00	0.00			Generally Non persistent and non workable
Parting	0							0.0000										0.00	0.00			

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Seam I	0							0.0000										0.00	0.00			Generally Non persistent and non workable
Total			46.9100	0.7800	0.6600	2.6000	1.8300	5.8700	19.1500	8.6000	3.5800	5.2100	18.9600					5.2100	18.9600		24.1700	

S.No	Parameters	Details
2.2.15	Methodology of reserves estimation (also mention if any software package has been used).	
Net Geological Reserves estimated for Opencast Mine considering the seam thickness >0.5 m = 20.59 Mte resulting in 18.96 Mte of extractable reserves and for Underground Mine considering the seam thickness >1.5 m = 13.03 Mtes resulting in 5.21 Mte of extractable reserves. Total Net Geological Reserves= 33.62 Mtes. Extractable Reserves= 24.17 Mte		
2.2.16	Average GCV “KCal/kg”	
5006		
2.2.17	Gross Geological Reserve of the block “Mte”	46.910
2.2.18	Net Geological Reserve of the block “Mte”	46.9100
2.2.19	Minable Reserve of the block “Mte”	27.75
2.2.20	Blocked Reserve “Mte”	5.8700
2.2.21	Corresponding extractable reserve of the block “Mte”	24.17
2.2.22	Percentage of Extraction	51.524
2.2.23	Reserve already depleted (Base date of Mining Plan)	0
2.2.24	Balance Reserve (as on Base Date))	24.1700

Prepared By Awadhesh Kumar Sinha On 12/05/2022

Chapter-3: Mining

3.1 Mining Method

S.No	Parameters	Details
3.1.1	Existing method of mining if the mine is under operation	Not Applicable, It is virgin coal block.
3.1.2	Proposed method of mining with justification on suitability of method of mining	

Prepared By Awadhesh Kumar Sinha On 12/05/2022

Method of Mining :-

The Geological & Mining characteristics of Seams in Bhaskarpara coal mine are suitable for adoption of opencast mining method for Seam V, Seam IVA and Seam IVB and both opencast & underground mining methods for Seam III and Seam IIT/C. Accordingly, Five Quarries, namely Q-NE, Q-NW, Q-A, Q-B & Q-C and two underground mines are proposed. While upper seams namely, Seam V, Seam IVA and Seam IVB shall be extracted through Quarries Q-NE and Q-NW, part of the lower seams up to 1:15 cum/te stripping ratio line in shall be extracted through Quarry-A & Quarry-B and up to 15 m thick hard cover line in Q-C. Balance reserves of Seams III and Seam IIT/C shall be extracted through underground mines. First underground mine (U1) shall have entries through the highwall of Quarry Q-B and the second underground mine (U2) shall have separate set of entries driven through the highwall of Q-C along Seam IIT/C.

SURFACE FEATURES: Surface infrastructures within the block include State Highway, villages, high tension line and Nala. It is proposed to divert Nala along the dip side boundary of Seam IVB in the Western and Northern boundary of the block. HT line passing through the block shall also be diverted for continuing operation in Q-NE. A small stretch of the State Highway comes very close to the eastern edge of Q-NW which is proposed for diversion.

SEQUENCE OF OPERATION: It is proposed to operate quarries and underground mines in following sequence for producing 1.0 MTPA coal. Q-NE shall be opened initially followed by Quarry-B. Quarry-NW will be started after reserves of these quarries are exhausted and thereafter Quarry-A will be opened. Targeted Coal Production of 1.0 MTY will be achieved in 3rd year. Underground mining operations shall commence in the fifth year and continue till the life of mine. Second underground mine shall be opened through the highwall of Quarry Q-C in 22nd year.

Particulars	Quarry NE	Quarry B	Quarry NW	Quarry C	Quarry A
Surface Area (Ha)	66.52	79.240	120.756	10.85	180.00
Floor Area (Ha)	42.25	60.78	90.62	7.18	148.66
Depth Range (m)	20 - 70	20 - 55	20 - 50	30 - 45	20 - 50
Coal (Mte)	4.06	1.74	8.54	0.19	4.43
OB (Mcum)	34.97	19.55	50.85	3.45	52.40
SR (cum/te)	8.61	11.23	5.95	18.15	11.83
Quarry Floor	IVB	IIT/C	IVB	IIT/C	IIT/C

	Quarry NE				
Year	**Coal**	**Cum Coal**	**OB**	**Cum OB**	**SR**
1	0.20	0.20	2.33	2.33	11.65
2	0.25	0.45	2.64	4.97	10.56
3	0.50	0.95	4.15	9.12	8.30
4	0.50	1.45	4.15	13.27	8.30
5	0.66	2.11	5.50	18.77	8.33
6	0.76	2.87	6.30	25.07	8.29
7	0.76	3.63	6.30	31.37	8.29
8	0.43	4.06	3.60	34.97	8.37

	Quarry B				
Year	**Coal**	**Cum Coal**	**OB**	**Cum OB**	**SR**
2	0.50	0.50	6.50	6.50	13.00
3	0.50	1.00	6.00	12.50	12.00
4	0.50	1.50	5.20	17.70	10.40
5	0.24	1.74	1.85	19.55	7.71

	Quarry NW				
Year	**Coal**	**Cum Coal**	**OB**	**Cum OB**	**SR**
8	0.33	0.33	4.80	4.80	14.55
9	0.65	0.98	5.50	10.30	8.46
10	0.68	1.66	5.20	15.50	7.65
11	0.76	2.42	3.90	19.40	5.13
12	0.76	3.18	3.90	23.30	5.13
13	0.76	3.94	3.90	27.20	5.13
14	0.76	4.70	3.90	31.10	5.13
15	0.76	5.46	3.90	35.00	5.13
16	0.76	6.22	3.90	38.90	5.13
17	0.76	6.98	3.90	42.80	5.13
18	0.76	7.74	3.90	46.70	5.13

19	0.76	8.50	3.90	50.60	5.13
20	0.04	8.54	0.25	50.85	6.25

	Quarry C				
Year	**Coal**	**Cum Coal**	**OB**	**Cum OB**	**SR**
9	0.11	0.11	1.95	1.85	17.72
10	0.08	0.19	1.50	3.45	18.75

	Quarry A				
Year	**Coal**	**Cum Coal**	**OB**	**Cum OB**	**SR**
20	0.72	0.72	9.10	9.10	12.64
21	0.76	1.48	9.10	18.20	11.97
22	0.76	2.24	9.10	27.30	11.97
23	0.76	3.00	9.10	36.40	11.97
24	0.76	3.76	9.10	45.50	11.97
25	0.67	4.43	6.90	52.40	10.30

Calendar Plan of Excavation

Year		UG Coal	OC Coal	Total Coal	OB	SR
C1	-	-	-	-	-	-
C2	-	-	-	-	-	-
1	2023-24	-	0.20	0.20	2.33	11.65
2	2024-25	-	0.75	0.75	9.14	12.19
3	2025-26	-	1.00	1.00	10.15	10.15
4	2026-27	-	1.00	1.00	9.35	9.35
5	2027-28	0.10	0.90	1.00	7.35	8.17
6	2028-29	0.24	0.76	1.00	6.30	8.29
7	2029-30	0.24	0.76	1.00	6.30	8.29
8	2030-31	0.24	0.76	1.00	8.40	11.05
9	2031-32	0.24	0.76	1.00	5.50	7.24
10	2032-33	0.24	0.76	1.00	8.65	11.38
11	2033-34	0.24	0.76	1.00	3.90	5.13
12	2034-35	0.24	0.76	1.00	3.90	5.13
13	2035-36	0.24	0.76	1.00	3.90	5.13
14	2036-37	0.24	0.76	1.00	3.90	5.13
15	2037-38	0.24	0.76	1.00	3.90	5.13
16	2038-39	0.24	0.76	1.00	3.90	5.13
17	2039-40	0.24	0.76	1.00	3.90	5.13
18	2040-41	0.24	0.76	1.00	3.90	5.13
19	2041-42	0.24	0.76	1.00	3.90	5.13
20	2042-43	0.24	0.76	1.00	9.35	12.30
21	2043-44	0.24	0.76	1.00	9.10	11.97
22	2044-45	0.24	0.76	1.00	9.10	11.97
23	2045-46	0.24	0.76	1.00	9.10	11.97
24	2046-47	0.24	0.76	1.00	9.10	11.97
25	2047-48	0.33	0.67	1.00	6.90	10.30
26	2048-49	0.22		0.22		
TOTAL		**5.21**	**18.96**	**24.17**	**161.22**	**8.50**

OPENCAST MINING: As coal seams are thin and gradient of seams is generally flat, extraction of coal is proposed by conventional system using Pay loader – Dumper in conjunction with drilling and blasting. The OB would be removed using conventional shovel dumper method with drilling & blasting. Drilling & blasting shall be conducted in scientific way using environment friendly technology. The total volume of OB has been estimated as 161.22 Mm3. Overall stripping ratio of the opencast quarry shall be 8.50 m3/te. The total volume of external dump has been estimated as 48.33 Mcum and internal dump as 112.89 Mcum.

3.1.3	Coal production capacity proposed MTPA	1.0000
3.1.4	Justification for optimization Coal production capacity	

Mining Plan for Bhaskarpara Coal Block has been prepared for a rated capacity of 1.0 Mty of ROM Coal. This output is considered technically feasible because of its favorable geo-mining conditions like: Thickness of various seams, Their disposition, Major geological disturbances Sufficient mineable coal reserves		
3.1.5	Calendar year from which the production will start	2023-24
3.1.6	Year of Achieving rated production	2025-26

3.1.7 Tentative Coal production Plan MT

Year		Coal Production Schedule			OB MM3	SR
Year of Operation	Calendar Year	UG	OC	Total		
0	2021-22					0
0	2022-23					0
1	2023-24	0	0.20	0.2000	2.33	11.6500
2	2024-25	0	0.75	0.7500	9.14	12.1867
3	2025-26	0	1.0	1.0000	10.15	10.1500
4	2026-27	0	1.0	1.0000	9.35	9.3500
5	2027-28	0.1	0.9	1.0000	7.35	8.1667
6	2028-29	0.24	0.76	1.0000	6.30	8.2895
7	2029-30	0.24	0.76	1.0000	6.30	8.2895
8	2030-31	0.24	0.76	1.0000	8.40	11.0526
9	2031-32	0.24	0.76	1.0000	5.50	7.2368
10	2032-33	0.24	0.76	1.0000	8.65	11.3816
11	2033-34	0.24	0.76	1.0000	3.90	5.1316
12	2034-35	0.24	0.76	1.0000	3.90	5.1316
13	2035-36	0.24	0.76	1.0000	3.90	5.1316
14	2036-37	0.24	0.76	1.0000	3.90	5.1316
15	2037-38	0.24	0.76	1.0000	3.90	5.1316
16	2038-39	0.24	0.76	1.0000	3.90	5.1316
17	2039-40	0.24	0.76	1.0000	3.90	5.1316
18	2040-41	0.24	0.76	1.0000	3.90	5.1316
19	2041-42	0.24	0.76	1.0000	3.90	5.1316
20	2042-43	0.24	0.76	1.0000	9.35	12.3026
21	2043-44	0.24	0.76	1.0000	9.10	11.9737
22	2044-45	0.24	0.76	1.0000	9.10	11.9737
23	2045-46	0.24	0.76	1.0000	9.10	11.9737
24	2046-47	0.24	0.76	1.0000	9.10	11.9737
25	2047-48	0.33	0.67	1.0000	6.90	10.2985
26	2048-49	0.22		0.2200		0
Note: Calendar Plan/Production Plan for the entire life of the mine.						

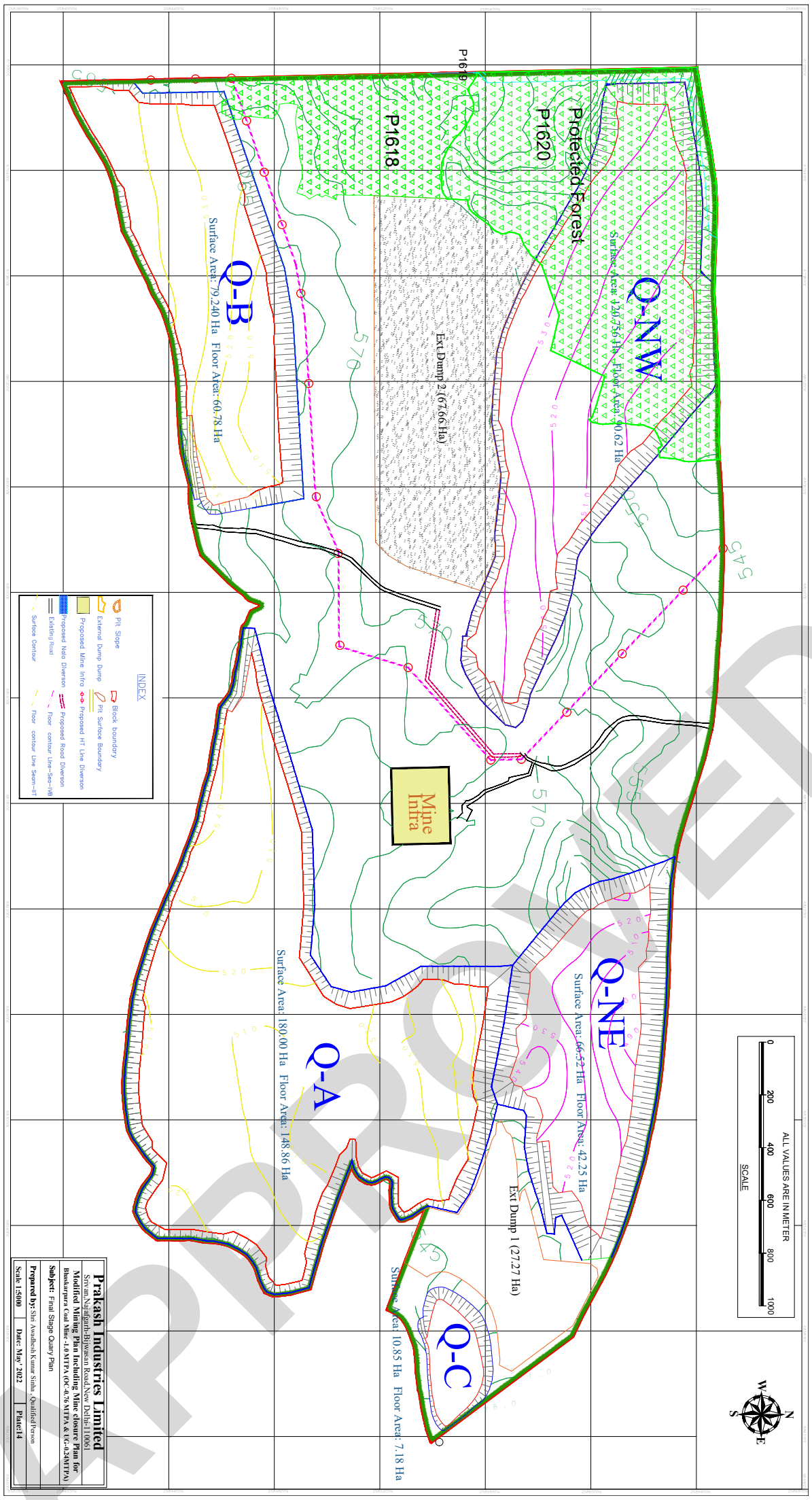
3.1.8	Rated Capacity Mtpa	By OC : 0.76 By UG : 0.24 Overall : 1.0000
3.1.9	Life of the mine: Years	By OC : 25 By UG : 22 Overall : 25
3.1.10	Whether the proposed external OB dump site is coal/ lignite bearing: If so, whether coal/lignite below waste disposal area is extractable	It is planned on the area where coal seams which are not viable for opencast mining and the seams below OB dump/ Infrastructure will be extracted by Underground mining.
3.1.11	Whether the proposed external OB dump site is coal/ lignite bearing: If so, whether coal/lignite below waste disposal area is extractable	Site for external dump / infrastructure has been planned over the area where thin coal seams, namely Seam III and Seam IIT/C underlie at depths beyond the economic limit for opencast mining. Reserves lying in these two seams shall be extracted by underground mining method. Scientific study has recommended appropriate method of underground mining below dump / infrastructure. Details of boreholes namely JB4, JB5,JB6, NCBP 3, NCBP 12, NCBP 54, NCBP 55 NCBP 59, intersecting seams at and in the neighbourhood of sites for external dump and infrastructure corroborate the same.
3.1.12	Results of any investigation carried out for scientific mining, conservation of minerals and protection of environment; future proposals	It is proposed to undertake following studies/investigation 1.Slope stability study 2.Effect of OB dump above UG working

Prepared By Awadhesh Kumar Sinha On 12/05/2022

<table>
<tr><td>3.1.13</td><td>Type of Equipment/ HEMM proposed</td><td>
<table>
<tr><th>S.No.</th><th>Type of Equipment</th><th>Capacity</th><th>Unit</th><th>Population</th></tr>
<tr><td>1</td><td>hydraulic Shovel</td><td>3.5</td><td>Cubic Meter</td><td>5</td></tr>
<tr><td>2</td><td>Rear Dumper</td><td>35</td><td>Tonnes</td><td>35</td></tr>
<tr><td>3</td><td>Dozer</td><td>410</td><td>Horsepower (HP)</td><td>3</td></tr>
<tr><td>4</td><td>Ripper attachment</td><td>410</td><td>Horsepower (HP)</td><td>1</td></tr>
<tr><td>5</td><td>Blast Hole Drill</td><td>160</td><td>mm</td><td>4</td></tr>
<tr><td>6</td><td>Front End Loader</td><td>5</td><td>Cubic Meter</td><td>2</td></tr>
<tr><td>7</td><td>Rear Dumper</td><td>30</td><td>Tonnes</td><td>9</td></tr>
<tr><td>8</td><td>Motor Grader</td><td>280</td><td>Horsepower (HP)</td><td>2</td></tr>
<tr><td>9</td><td>Explosive Van</td><td>10</td><td>Tonnes</td><td>2</td></tr>
<tr><td>10</td><td>Dozer</td><td>450</td><td>Horsepower (HP)</td><td>1</td></tr>
<tr><td>11</td><td>Water Sprinkler</td><td>14</td><td>KL</td><td>2</td></tr>
<tr><td>12</td><td>Hydraulic Back Hoe</td><td>2</td><td>Cubic Meter</td><td>1</td></tr>
<tr><td>13</td><td>Tipping Truck</td><td>20</td><td>Tonnes</td><td>2</td></tr>
<tr><td>14</td><td>R T Crane</td><td>8</td><td>Tonnes</td><td>1</td></tr>
</table>
</td></tr>
<tr><td>3.1.14</td><td>Upload Require Document</td><td>OC : OC files data shown below
UG : UG files data shown below</td></tr>
</table>

OC Document :

Prepared By Awadhesh Kumar Sinha On 12/05/2022



Prakash Industries Limited

Sirvan,Najafgarh-Bijwasan Road,New Delhi-110061

Modified Mining Plan Including Mine closure Plan for

Bhaskarpura Coal Mine -1.0 MTPA (OC-0.76 MTPA & UG-0.24MTPA)

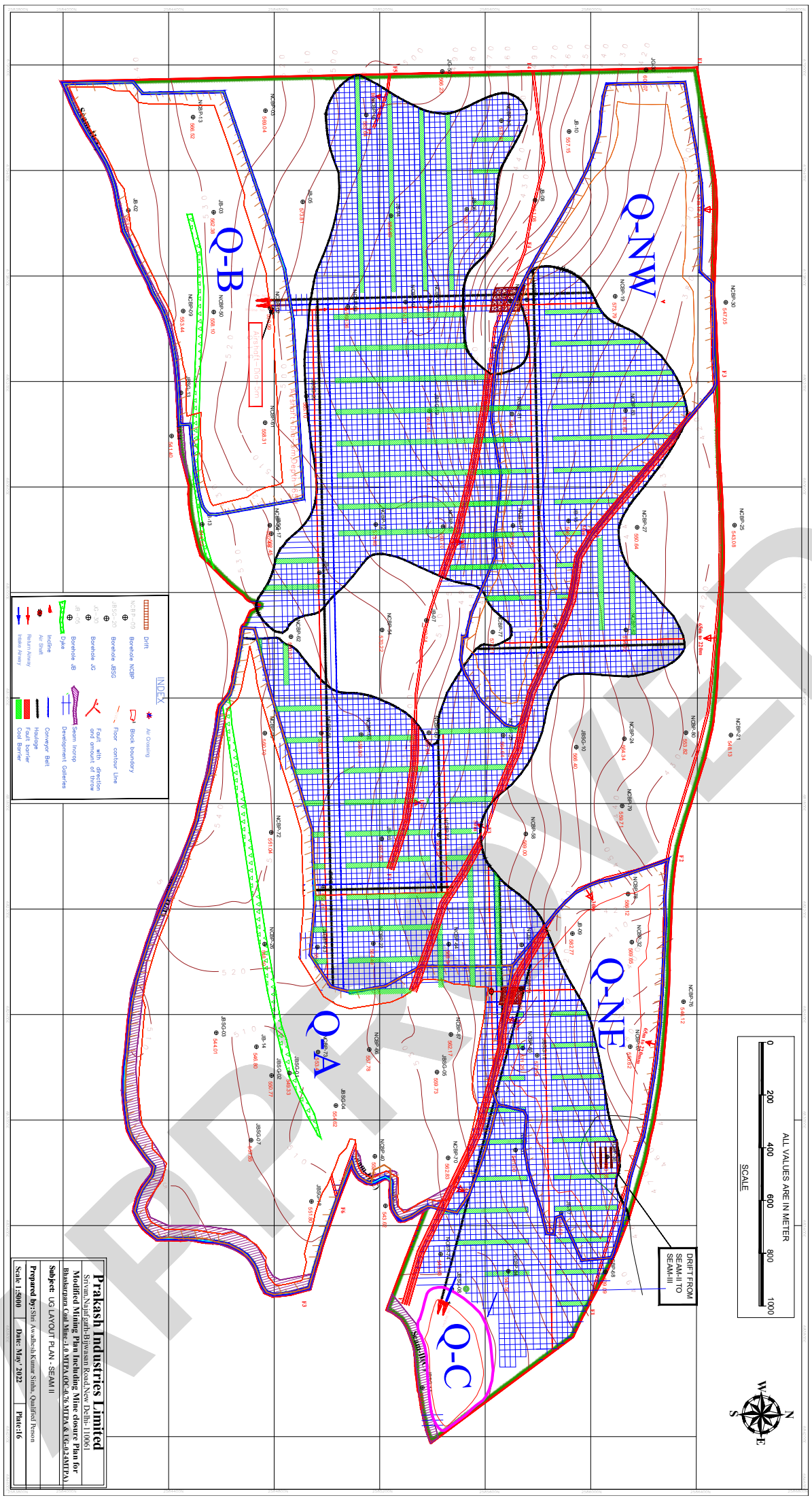
Subject: Final Stage Quary Plan

Prepared by: Shri Awadhesh Kumar Sinha ,Qualified Person

Scale 1:5000 | **Date: May' 2022** | **Plate14**

Prepared By Awadhesh Kumar Sinha On 12/05/2022

UG Document :



Prepared By Awadhesh Kumar Sinha On 12/05/2022

Chapter-4: Safety Management

4.1 Safety Management

S.No	Parameters	Details
4.1.1	Major Risks and uncertainties to the project viz. Proximity to river, adjacent working, geo-mining disturbances, slope stability and remedial measures suggested. It should also include proposed overall slope of the quarry and OB dump, dump height, strata control, fire and spontaneous heating, gas monitoring, disaster management, danger from inrush of water etc.	

Preparing and implementing Safety Management Plan is a mandatory requirement under Reg- 104 of CMR -2017. It is provided that the owner, agent and manager of every mine shall prepare an auditable document based on identified hazards and risks, called “Safety Management Plan”, and it shall form part of the overall management and includes organizational structure, planning, activities, responsibilities, practices, procedures, processes and resources for developing, implementing, achieving, reviewing and maintaining a safety and health policy of a company. Bhaskarpara Coal mine has both opencast and underground workings. There are specific safety precautions related to underground mining
and method of extraction / depillaring. Scientific studies shall be conducted for seeking recommendations in that regard and same shall be practiced in letter and spirit. Safety Management Plan after carrying out the Risk Assessment, Hazard various Activities/ Hazards likely to be present in the mine. Various activities included, Operation and Maintenance of Heavy Earth Moving Machineries and Underground Mining Machineries, Ground Water Control, Mine drainage etc. It is proposed to have a Safety Management Organization (SMO) along with Pit Safety Committees (PSC) for Underground mine. Prime objective of the SMO and PSC is to analyse and assess the potential risks and hazards associated with the Mining activities and prepare Disaster Management Plan to monitor and prevent any such accidents in mines. The team will be equipped with advanced tools for implementation of safe operating procedures. Precautions are proposed to ensure safe operations by preventing major risks associated with the mining like inundation, fire, strata control in UG mine.

Following studies are proposed during the initial stages of the mining activities and the methodology will be reviewed as per the results:

1. Scientific study for deployment of Continuous Miner
2. Scientific study to assess the impact of Mining and Subsidence
3. Hydrogeological study for review of pumping capacity proposed

The benches in the overburden rocks and coal shall be 8-10 m high and adequately wide enough for heavy earth moving machineries to move. Any sudden failures of the vertical face would cause dangerous situations to the top horizontal bench and would move large quantity of debris to the lower horizontal benches, thereby causing serious mishap to the equipment and persons deployed at both the horizontal bench. In order to prevent such incidents, system of daily inspection by competent persons and other measures under the safety management plan shall be incorporated. A pre-monsoon audit shall be undertaken .and remedial action shall be taken. Dump slope shall be monitored for signs of impending failure using slope monitoring radars etc in accordance with Safety Management Plan and SoPs formulated and implemented. Ground water accumulated during mining will be pumped and stored for plantation, workshop and sprinkling usage. Necessary pumping arrangements are always kept in readiness considering the worst- case scenario of the rainfall on a single day basis. Suitably designed garland drains shall be constructed in accordance with SMP. along the lease boundary to channelize the storm water from the catchment area. Embankment shall be monitored. Toe and cross drains shall be maintained to course the water into the sumps directly and to avoid stagnation over the dumped material. Spontaneous heating of coal may cause fire in stock yards. Fixed type sprinkler and fire-fighting arrangements shall be installed at the stock yards and benches shall be inspected regularly. Suitable SoP shall be included in the SMP to take care of spontaneous heating of coal. The support requirement, design and the pattern of roof bolting and their specifications will be assessed after scientific studies. During both development and depillaring monitoring of effectiveness of supports will have to be carried out by actual measurements. Nala flowing through the block shall be diverted hence will not poe any danger of inundation. A flood protection embankment or any suitable arrangement is proposed to prevent any danger due to inundation. The HFL of Nala will be assessed and adequate height of embankment for protection of opencast shall be constructed. Mine mouth of the Inclines and Ventilation shaft will be raised 1.5 m above the HFL (in compliance with Regulation 149 of CMR 2017) with the help of locally raised platform duly protected by walls along the sides. Vibrations due to blasting may cause damage to the nearby structures if appropriate control measures are not adopted. Fly rock is another possible damage causing outcome of blasting. SoPs formulated under SMP for blasting shall include adequate measures for controlling flying fragments away and blast generated vibrations under control. Proper care and supervision during blasting by a competent and experienced person shall be ensured. The gassiness of the seam is not known but for the planning purposes it is considered as degree I gassy. After opening the seam study will be conducted for degree of gassiness and appropriate precautions will be taken. For all the mining operations and associated
activities to be carried out in the mines, the provisions of Coal Mines Regulations, circulars issued by Directorate General of Mines Safety from time to time and the conditions laid down in the DGMS permission A separate team comprising of experienced and competent officials, supervisors and workmen shall be made responsible for monitoring strata movement and taking suitable control measures for underground workings. Adequate provision shall be included under the SMP in this regard. Proposed method of mining shall be strictly adhered to ensure safety of the mine and the persons working therein at all times. SMP shall include SoPs for every equipment in use in the mine. Supervisors, Operators and maintenance personnel shall be made fully aware of these SoPs. A safety organisation is proposed to ensure adherence to the guidelines SOPs to be formulated by the Mine Manager. Additionally, the following plans are proposed:

1. Emergency Preparedness Plan
2. Monsoon Preparedness Plan
3. Systematic Support Plan
4. The mine shall prepare an auditable Disaster Management Plan as per guidelines and also vetted by DGMS and is governed by the provision of the Mine Act 1952. Regular Mock Drills shall be conducted and record for the same shall be maintained.

4.1.2	A Commitment from the Company Board that entire mining operation will be carried out as per the Statutory provision given under Mines Act 1952, Coal Mine Regulation 2017 and & wherever specific permission will be required the company will approach the concerned authorities	To ensure safety in operating the mine, all provisions of Coal Mine Regulations 2017 along with Circulars issued by Director-General of Mines Safety from time to time shall be adhered to. In addition, related statues viz. Mines Act 1952, Mines Rules 1955 and others also shall be complied with.

Chapter-5: Infrastructure Facilities proposed and their Location

5. Infrastructure Facilities

<table>
<tr><th>S.No</th><th>Parameters</th><th>Details</th></tr>
<tr><td>5.1</td><td>Mine infrastructure required</td><td>
<table>
<tr><th>S.No</th><th>Infrastructure to be reatin to be public use</th><th>Infrastructure to be dismantle/reclaimed</th></tr>
<tr><td>1</td><td>vocational Training Centre</td><td>Dismantle</td></tr>
<tr><td>2</td><td>MTK/Pit office</td><td>Dismantle</td></tr>
<tr><td>3</td><td>CHP & CPP and Weigh Bridge</td><td>Dismantle</td></tr>
<tr><td>4</td><td>Store & Pavement</td><td>Dismantle</td></tr>
<tr><td>5</td><td>Other Internal Service Road</td><td>Dismantle</td></tr>
<tr><td>6</td><td>Base workshop shed & pavement</td><td>Dismantle</td></tr>
<tr><td>7</td><td>Parking area for Rear Dumpers</td><td>Dismantle</td></tr>
<tr><td>8</td><td>Rest Shelter</td><td>Dismantle</td></tr>
<tr><td>9</td><td>Lavatory/Urinal</td><td>Dismantle</td></tr>
<tr><td>10</td><td>Water works</td><td>Reclaim</td></tr>
<tr><td>11</td><td>Sedimentation ponds / Setting ponds</td><td>Reclaim</td></tr>
<tr><td>12</td><td>ETP</td><td>Dismantle</td></tr>
<tr><td>13</td><td>Fan house</td><td>Dismantle</td></tr>
<tr><td>14</td><td>Project Office complex including Manager's office</td><td>Dismantle</td></tr>
<tr><td>15</td><td>Parking- cars, Scooters and cycles</td><td>Dismantle</td></tr>
<tr><td>16</td><td>First aid Room</td><td>Dismantle</td></tr>
<tr><td>17</td><td>Arterial Road to Quarry including 4m lane for LMV with divider</td><td>Dismantle</td></tr>
<tr><td>18</td><td>Haul Road</td><td>Dismantle</td></tr>
<tr><td>19</td><td>Sub station for receiving power</td><td>Reclaim</td></tr>
<tr><td>20</td><td>Rescue Room</td><td>Dismantle</td></tr>
</table>
</td></tr>
<tr><td>5.2</td><td>Power supply & illumination</td><td></td></tr>
<tr><td colspan="3">The total power requirement for the proposed mine will be about 2 MVA which is not available nearby. This power will be arranged from State Electricity Board. A suitable substation equipped with switch-yard and step down transformer facilities will be installed near the site services. As a result voltage will be available at 11 KV, 3.3 KV and 400V. All HEMM are proposed to be diesel operated. A standby DG set of 1 MW capacity will also be provided. In underground mine, 3300 V, 550 V, and 110 V etc. will be used based on the type of equipment.</td></tr>
<tr><td>5.3</td><td>Drainage & Pumping : Assessment of Volume of Water for Pumping, Pumping Capacity and Pump Selection</td><td></td></tr>
<tr><td colspan="3">The block is characterized by highly undulating topography with mounds as well as elevated and flat land. The general elevation of the block varies from 530 m to 597m above mean sea level (MSL). The average elevation of the block above mean sea level (MSL) is around 565m. The southern part of the block is mainly plain country comprising of paddy fields. The northern part is however undulating terrain occupied by sandstone ridges.

The block is drained by Manik Nalla (with north-easternly flow) which drains to join Gokhani Nala in the north and Kalua Nala with south easternly flows and finally drains into River Rehar in the east. These two seasonal Nallas along with their feeders control the drainage pattern of the block. The average annual rainfall is about 1500 mm.

During the course of mining, water from the mine sumps will be pumped to surface settling tank located near the open cast quarries. Treated water will be used for industrial application for mine and surplus treated water from settling tank will be discharged into the nearby Nala after ascertaining its quality.</td></tr>
<tr><td>5.4</td><td>Coal Handling Arrangement: Brief detail of the CHP/ Mode of Dispatch, Coal quality and Coal staking and handling arrangement</td><td>The Bhaskarpara Opencast Mine is being planned for a rated production capacity of 0.76 MTPA of coal. Coal will be extracted by Payloaders and will be loaded into 35T capacity tipping trucks at the coal benches which will transport coal up to surface pit head depot where coal handling arrangement will be installed to handle coal from OC mine. Coal buyers shall carry coal from CHP to respective destinations by road or by rail.</td></tr>
<tr><td>5.5</td><td>Coal washing and the proposed handling/ disposal of rejects</td><td>No Coal Washing is envisaged in Bhaskarpara Coal Mine</td></tr>
</table>

Chapter-6: Land Requirement

6.1 Land requirement

S.No	Parameters	Details
6.1.1	Total Land requirement for the mine in “Ha”. Indicative source of data.	

Ownership	Type of Land	Area(Ha)
Tenancy Land	Agricultural	370.737
	Township	-
	Grazing	-
	Barren	-
	Water bodies	2.387
	Road	1.150
	Community	-
		-
	Sub Total	**374.275**
Govt Non Forest Land	Agricultural	-
	Township	-
	Grazing	-
	Barren (Road)	3.624
	Other	38.520
	Sub Total	**42.144**
Forest Land	Protected Forest land	148.795
	Rev Forest (CJBJ)	366.785
Free hold		-
	Sub Total	**515.581**
	Grand Total	**932.00**

Break up of pre-mining land type (indicative) and source of data.

S.No.	Land Type	Exisiting/pre-Mining Use	Area
1	Govt Forest Land	-	515.581
2	Tenancy Land	-	374.275
3	Govt. Land	-	42.144

6.1.2 During mining Land use details:

Type	Land use (Proposed)	Land Use (End of Life)	Land Use (Post Closure)						
			Agricultural land	Plantation	Water Body	Public/Company Use	Forest Land (Returned)	Undisturbed	Total
Excavation Area	457.366								
Backfilled Area		312.796		312.796					312.7960
Excavated Void		144.57			144.57				144.5700
Without Plantation									
Top Soil Dump	10.600								
External Dump	84.33	94.93		94.93					94.9300
Safety Zone	13.330	13.330		13.330					13.3300
Haul Road between quarries									
Road diversion	1.125	1.125				1.125			1.1250

Diversion Or Below River Or Nala Or Canal	1.940	1.940				1.940			1.9400
Settling Pond	1.120	1.120			1.120				1.1200
Road And Infrastructure Area	6.290	6.290				6.290			6.2900
Rationalization Area									
Garland Drains									
Embankment									
Green Belt									
Water Reservoir Near Pit									
UG Entry									
Undisturbed OR Mining Right For UG	355.899	355.899	333.18	22.719					355.8990
Resettlement									
Pit Head Power Plant									
Water Harvesting									

S.No	Parameters	Details
6.1.3	Surface features over the block area	Human habitation The land of seven villages namely Bhaskarpara, Khandapara, Badsara, Kuridih, Dhanuli, Kewra and Kushmushi are falling partly within mine Lease area. Road A Part of PWD road for a length of approx. 1 km passes across Quarry NW and External dump needs to be diverted along south eastern boundary of the Q-NW boundary which will be again connected to existing road. Ponds Few Small ponds and dug wells in the area. These are utilized for irrigation and drinking water purpose. Nala/River The Manik nala with north easterly flow drains to join Gokhani nala in the north Kalua Nala with south eastern flow drains into Rehar River in the east. These two Seasonal nallas along with their feeders control the drainage pattern of the block. The Manik Nala flowing over Quarry NW will be diverted towards western side of the block and will be join into Gokhani Nala. Kalua Nala is having small catchment which will be terminated during mine operations so there is no further diversion required.
6.1.4	No. of villages/Houses to be shifted	Seven Villages (Bhaskarpara, Khandapara, Badsara, Kuridih, Dhanuli, Kewra and Kushmushi) are located in periphery of the block. Number of houses to be shifted will be estimated after SES.
6.1.5	Population to be affected by the project	Project Affected Families (PAF) is 40. Figure will be updated after socio-economic survey.
6.1.6	Proposed Rehabilitation programme	Rehabilitation will be done as per prevailing policies.

6.2 DETAILS OF LEASE

S.No	Parameters	Details
6.2.1	Status of Lease	
Fresh Mining Lease application submitted to The Director, Directorate of Geology & Mining, Indrawati Bhavan, Nawa Raipur, Atal Nagar CG on 06.12.2021.		
6.2.2	Existing Lease Area “Ha”	No lease exist.
6.2.3	Period for which Mining Lease has been granted/is to be renewed/ is to be applied. for.	50 years
6.2.4	Date of expiry of earlier Mining Lease, if any .	Not Applicable
6.2.5	Whether the lease boundary/ required boundary is same as mentioned in the allotment order.	Yes, lease boundary / required boundary is same as mentioned in the allotment order and certified by qualified person is annexed as II.
6.2.6	Lease Area (applied/ required) as per the Mining Plan under consideration (Ha)	932.00

6.2.7	Whether the applied lease area falls within the allotted block.	Yes
6.2.8	Area (Ha) of lease which falls outside the delineated Block Boundary/Existing Mining Lease.	Nil
6.2.8	Area (Ha) of lease which falls outside the delineated Block Boundary/Existing Mining Lease.	Nil
6.2.9	Details of outside area	Not Applicable
	Whether forms part of any other coal block	Not Applicable
	Whether it contains any coal/lignite reserves.	Not Applicable
	Purpose for which it is required, e.g. roads/ OB dumps/ service buildings/ colony/ safety zone/ others (specify).	Not Applicable
6.2.10	Whether some part(s) of the allotted block has not been applied for mining lease	Not Applicable
	Total area in Ha of such part(s).	Not Applicable
	Total reserves in such part(s). (Mt).	No, complete 932.00 ha has been applied for Mining Lease
	Brief reasoning for leaving such part(s).	-

Chapter-7: Environment Mangement

7. Environment Mangement

S.No	Parameters	Details
7.1	Commitment from the project proponent that the company will comply Environment and Forest Condition stipulated in the respective clearances	The Company will comply Environment and Forest Condition stipulated in the respective clearances has been annexed in Annexure IIIA.

Chapter-8: Progressive & Final Mine Closure Plan

8.1.1 Land Degradation and restoration Schedule

Tentative Land Degradation and Technical Reclamation (Commutative Area Ha)									
Year/Stage		Land Degraded				Technically Reclaimed Area			
(Life of the mine plus post closure period)		Excav	Dump (Extn + Top Soil)	Infra/others	Total	Backfill	Dump (Extn + Top Soil)	Others	Total
Up to Base year									
Y-1	2023-24	10.70	27.27	14.26	52.2300				
Y-3	2025-26	90.29	94.47	59.27	244.0300	22.70	94.47	5.67	122.8400
Y-5	2027-28	122.69	94.93	180.5	398.1200	60.31	94.93	10.28	165.5200
Y-10	2032-33	166.55	94.93	377.71	639.1900	161.06	94.93	15.32	271.3100
Y-15	2037-38	241.46	94.93	377.71	714.1000	255.22	94.93	24.27	374.4200
Y-20	2042-43	310.25	94.93	377.71	782.8900	272.38	94.93	24.27	391.5800
Y-25	2047-48	457.366	94.93	379.704	932.0000	303.27	94.93	24.27	422.4700
Post Closure									
Y-28	2050-51	457.366	94.93	379.704	932.00	303.27	94.93	533.80	932.00

8.1.2 TentativeBiological Reclamation (Cumulative in “Ha”)

Year/Stage		Biologically Reclaimed Area					Forest land (Return)	Un Disturbed/ To be left for Public/com Use	Total
(Life of the mine plus post closure period)		Agriculture	Plantation	Water Body	Public/ Company Use	Total			
Up to Base year									
Y-1	2023-24	0	0	1.13	0	1.1300			1.1300
Y-3	2025-26	0	5.67	1.13	0	6.8000	0		6.8000
Y-5	2027-28	0	40.07	1.13	0	41.2000	0	0	41.2000
Y-10	2032-33	0	107.80	1.13	0	108.9300	0	0	108.9300
Y-15	2037-38	0	215.65	20.52	0	236.1700	0	0	236.1700
Y-20	2042-43	0	325.60	97.45	0	423.0500	0	0	423.0500
Y-25	2047-48	0	398.20	147.77	0	545.9700	201.80	184.23	932.0000
		0	0	0		0.0000	0	0	0.0000
Post Closure									
Y-28	2050-51	0	404.530	147.77	0	552.300	515.581	184.229	932.000

S.No	Parameters	Details
8.2	Post Closure Water Quality management (Existing water bodies available in the lease hold area; Measures to be taken for protection of the same including control of erosion, sedimentation, siltation, water.	After completion of the Mining Activity pumping water for the mine will continue for a while and the water will be let out onto nearby nallah through a settling Pond.
8.3	Post Closure Air Quality management.	After completion of the Mining Activity certain points are earmaked for collection of samples and regular monitoring as per permission.

8.4 Waste Management (Figures in MM3) (Tentative)

Year/Stage (Life of the mine plus post closure period)		OB Removal (Cumulative)			External Dump (Cumulative)		Internal Backfilling (Cumulative)		Embankment (Cumulative)	
		Top Soil	OB	Total	Top Soil	OB	Top Soil	OB	Top Soil	OB
Up to Base year										
Y-1	2023-24	0.11	2.22	2.33	0.11	2.22	0	0		
Y-3	2025-26	0.37	21.25	21.62	0.37	16.71	0	4.54		
Y-5	2027-28	1.04	37.28	38.32	0.92	24.92	0.12	12.36		
Y-10	2032-33	1.88	71.59	73.47	1.62	36.48	0.26	35.11		
Y-15	2037-38	3.50	89.47	92.97	3.02	37.61	0.48	51.86		
Y-20	2042-43	4.41	113.51	117.92	3.93	38.52	0.48	74.99		
Y-25	2047-48	5.25	155.97	161.22	4.77	43.56	0.48	112.41		
Post Closure										
Y-28	2050-51	5.25	155.97	161.22	4.77	43.56	0.48	112.41		

8.5 Top Soil Management – (Including Action plan for Top Soil management) (Tentative)

Year/Stage (Life of the mine plus post closure period)		Top Soil Removal Plan	Top Soil Used				
			Spreading Over Embankment	Spreading Over Backfill area	Spreading Over External OB Dump area	Used in Green Belt area	Total Utilised
Up to Base year							
Y-1	2023-24	0.11				0.11	0.11
Y-3	2025-26	0.37				0.11	0.11
Y-5	2027-28	1.04			0.12		0.12
Y-10	2032-33	1.88		1.62	0.26		1.88
Y-15	2037-38	3.50		2.24	0.48		2.72
Y-20	2042-43	4.41		3.09	0.48		3.57
Y-25	2047-48	5.25		3.93	0.48		4.41
Post Closure							
Y-28	2050-51	5.25		4.77	0.48		5.25

S.No	Parameters	Details
8.6	Management of Coal Rejects.	Washery not required, therefore not applicable.
8.7	Restoration of Land used for Infrastructure.	Infrastructure to be retained area - Water Pipe line, Water Tanks, Over head electrical transmission line established for supply of power to these facilities and roads construction to serve these facilities.
8.8	Disposal of Mining Machinery.	Disposal of scrap and such machineries which are not in use in O / C mines will be disposed off towards the end of the mine operation. The equipment including HEMM deployed by company will be taken back to other projects. Therefore. no equipment will left in the mine premises at the time of mine closure/after final mine closure. The disposal of the owner equipment will be completed within 5 years after mines life. No mining machinery will be permitted to remain in the lease area after completing the closure activities.
8.9	Safety & Security.	To ensure safety in operating the mine, all provisions of Coal Mine Regulations 2017 along with Circulars issued by Director-General of Mines Safety from time to time shall be adhered to. In addition, related statues viz. Mines Act 1952, Mines Rules 1955 and others shall also will be complied with. Some of the important statutory provisions relating to mechanized open cast mine which recently have been incorporated in Regulation are reiterated in the following paragraphs. Safety Management Plan For complying with Reg. 104 of CMR 2017, exercise shall be done to identify, assess and record the hazards of health and safety of the persons employed in the mine after consulting the Safety Committee and Internal Safety Organisation (ISO). Based on the above, Safety Management Plan (SMP) shall be formulated for overall management for developing and implementing the safety policy of the company. SMP shall contain, inter alia, plan to implement the policy, principal hazard management, standard operating procedure (SOP), monitor, evaluate and review the plan. Mechanized opencast working For complying with Reg. 106 (2), before starting mining operation, it will be ensured that the mine including its method of working , ultimate pit slope, dump slope and monitoring of slope stability has been planned, designed and worked as determined by a scientific study, and a copy of the report of such study, shall be kept available in the office of the mine.Rear Dumpers deployed shall be provided with Audio Visual Alarms and proper lights. Suitable type of fire extinguishers shall be provided in every machine. Modern dumpers are presently equipped with automatic fire alarm and sprinkler systems.Precautions against danger of inundation from surface waterA careful assessment is to be made regarding danger from surface water before the onset of rainy season/ the necessary precautions should be clearly laid down and implemented. A garland drain needs to be provided to drain away the surface rainwater entering into the mine. Inspections to determine any accumulation of rainwater and obstruction in normal drainage.Standing order should be in place, for withdrawal of working persons in case pf apprehended dangerDuring heavy rain inspection of vulnerable points is essential in case of any danger persons are to be withdrawn to safer places.Nallah or water inlets may be diverted or isolated by embankments if so required.

8.10 Abandonment Cost and Financial Assurance.

8.10.1 Abandonment Cost: Cost of Activities to be taken up for closure of the mine

Head	Activities	Unit	Quantity	Rate RS/Unit	Amount RS Cr
Progressive Closure	Water quality management	Ls	26	2000000	5.200
	Air quality management	Ls	26	2000000	5.200
	Waste Management	M CUM	20	10000000	20.000
	Barbed wire fencing around dump	m	5000	700	0.350
	Barbed wire fencing around the pit	m	15000	700	1.050
	Filling of Void - Rehanding of Crown dump	MM3	18.15	15000000	27.225
	Top Soil Management	MM3	5.25	5000000	2.625
	Technical And Biological Reclamation of Mined out of land and OB Dump	Ha	465.74	750000	34.931
	Plantation over virgin area including green belt	Ha	24.27	750000	1.820
	Manpower Cost and Supervision	month	220	70000	1.54
	Total wall around the dump	m	4924	1500	0.739
	Garland drain	m	7500	5000	3.750
	Garland drain around the dump	m	5000	200	0.100
	Any other Activity	ls			
	Any other Activity - 2				
	Any other Activity - 3				
	Any other Activity - 4				
	Any other Activity - 5				
Dismentaling of infrastrucure & Disposal/ rehabilitation of mining Machinery	Dismentaling of workshop	Ls			0.400
	Rehabilitation of the dismentaled fascilities	Ls			0.150
	Dismentaling of pump and pipes/ other fascilities.	Ls			0.450
	Dismentaling of stowing bunker, provisioning of pumps for borewell pumping arrangement.				0.300
	Dismentaling of UG equipment				2.000
	Rearranging water pipeline to dump top park/Agriculture land	Ls			0.150
	Dismentaling of power lines.				0.100
	Any other Activity				
Safety and Security	Barbed wire fencing around dump	Already Covered			
	Barbed wire fencing around the pit	Already Covered			
	Barbed wire fencing with Masonalry piller				0.350
	Concrete wall with Masonalry pillers around the pit	m			
	Securing air shaft and installation of borewall pump				0.300
	Securing of incline				2.000
	Concrete wall fencing around the water body				
	Boundary wall around the water body				
	Stabilisation (viz benching, pitching etc) of side walls of the water body				0.250
	Toe wall around the dump	Already Covered			
	Garland Drain	Already Covered			
	Garland Drain around the dump	Already Covered			

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	Drainage channel from main Ob dump				0.200
	Any other Activity				
Technical and Biological Reclamation of mined out of land and OB Dump	Filling of Void	Ha			
	Top soil management	MM3			
	OB Rehandling for backfilling	MM3			
	Terracing, blanketing with soil and vegetation of External OB Dump	Ha	95.87	500000	4.794
	Paripharel road, gates, view point, cemented steps on bank				0.150
	Expenditure on development of Agriculture land				
	Landscaping and Plantation	Ls			0.300
	Any other Activity				
Post Closure management and supervision	Power Cost	Ls			0.150
	Post mining water quality management	Ls	3	500000	0.150
	Post mining air quality management	Ls	3	500000	0.150
	Subsidence monitoring for 5 years	Ls	5	500000	0.250
	Waste management	Ls			
	Manpower Cost and supervision	Ls	3	800000	0.24
	Manpower Cost and supervision				
Others	Enterprenuership development(vocational/skill development training for sustainable income of affected people)				0.300
	Golden Handshake/Retrenchment benefits to 100 employees of OC				0.050
	Golden Handshake/Retrenchment benefits to 200 employees of UG				0.250
	Onetime financial grant to societies/ institutions/ organisations which is dependent upon the project				0.200
	Provide Jobs in other mines of company				
	Continuation of other services like running of school etc.				0.200
	Any other Activity				
Total					118.37

8.10.2 Financial Assurance : Amount to be deposited in Escrow account as a security against the mine activities to be carried out for the closure of the mine

WPI as on	Apr-19	121.10
WPI as on base date		136
Escalation rate of Closure cost		1.123
	UG	OC
Base Cost "Rs. Crs/Ha	0.015	0.09
Closure Cost "Rs. Crs/Ha"	0.017	0.101
Project Area "Ha"	379.704	552.296
Amount to be depostied into Escrow Account "Rs. in Crs	6.455	55.782
Amount already deposited into Escrow Account "Rs. in Crs	0	0
Net Amount to be depositied into Escrow Account "Rs. in Crs	6.455	55.782
Rate of componding of Annual Closure Cost		5.00%
Balance Life of the project "in Yrs	22	25
Annual Closure Cost "Rs. in Crs"	0.293	2.231
Amount to be deposited into Escrow Account after compounding @ of 5% "Rs. in Crs"		117.761

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Amount to be deposited into Escrow

Year	OC	Year	UG	Total
1	2.231	1	0.293	2.524
2	2.343	2	0.308	2.651
3	2.46	3	0.323	2.783
4	2.583	4	0.339	2.922
5	2.712	5	0.356	3.068
6	2.847	6	0.374	3.221
7	2.99	7	0.393	3.383
8	3.139	8	0.412	3.551
9	3.296	9	0.433	3.729
10	3.461	10	0.455	3.916
11	3.634	11	0.477	4.111
12	3.816	12	0.501	4.317
13	4.007	13	0.526	4.533
14	4.207	14	0.552	4.759
15	4.417	15	0.58	4.997
16	4.638	16	0.609	5.247
17	4.87	17	0.64	5.51
18	5.113	18	0.672	5.785
19	5.369	19	0.705	6.074
20	5.638	20	0.74	6.378
21	5.92	21	0.777	6.697
22	6.215	22	0.816	7.031
23	6.526			6.526
24	6.853			6.853
25	7.195			7.195
Total	106.480		11.281	117.761

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Annexures

Annexure 1A1

GOVERNMENT OF INDIA

MINISTRY OF COAL

OFFICE OF THE NOMINATED AUTHORITY

(Constituted under Section 6 of the Coal Mines (Special Provisions) Act, 2015)

Shastri Bhawan, New Delhi

VESTING ORDER

(under clause (b) of sub-rule (2) of rule 7 and sub-rule (1) of rule 13 of the Coal Mines (Special Provisions) Rules 2014 read with clause (b) of sub-section (3) of Section 6 and sub-section (3) of Section 8 of the Coal Mines (Special Provisions) Act, 2015)

In re:	**Bhaskarpara Coal Mine** (the "mine") particulars of which is specified in **Annexure 1**
Order no.:	NA-104/5/2021-NA
Date:	November 18, 2021
In favour of:	**Prakash Industries Limited**, incorporated in India under the Companies Act, 1956 with corporate identity number L27109HR1980PLC010724, whose registered office is at 15 KM Stone Delhi Road Hissar, Haryana - 125044, India, India and principal place of business is at Srivan, Bijwasan, New Delhi, Delhi - 110061, India (the "successful bidder")
For the purpose of:	Sale of coal, including sale to Affiliates and related parties, utilisation of coal for any purpose including but not limited to captive consumption, Coal Gasification, Coal Liquefaction and export of coal.

WHEREAS, the nominated authority has, in accordance with provisions of the Coal Mines (Special Provisions) Act, 2015 (the "Act") and the Coal Mines (Special Provisions) Rules 2014 (the "Rules") conducted the auction of the mine;

AND WHEREAS the successful bidder is eligible to receive this vesting order with respect to the mine including, inter-alia, -

(a) the coal bearing land acquired by the prior allottee and the lands, in or adjacent to the coal mines used for coal mining operations acquired by the prior allottee; and

(b) any existing mine infrastructure as defined in clause (j) of sub-section (1) of section 3 of the Act;

AND WHEREAS the successful bidder has entered into a Coal Mine Development and Production Agreement dated September 23, 2021("CMDPA") (as amended) with the nominated authority in accordance with the provisions of sub-rule (5) of rule 13.

AND WHEREAS the successful bidder has furnished a performance bank guarantee dated October 21, 2021 for an amount equal to INR 1,39,79,09,402.19 (Indian Rupees One Hundred Thirty Nine Crore Seventy Nine Lakh Nine Thousand Four Hundred Two and Nineteen Paise) issued by IDBI Bank Ltd in accordance with the tender document and in accordance with the provisions of sub-section (6) of section 8 of the Act and sub-rule (4) of rule 13 of the rules.

NOW, THE NOMINATED AUTHORITY DOES ORDER:

1. On and from November 18, 2021 ("vesting date") and in accordance with the provisions of sub-section (4) of section 8 of the Act, with respect to the mine, the following shall stand fully and absolutely transferred and vested in the successful bidder, namely: -

(a) all the rights, title and interest of the prior allottee in and over the land and mine infrastructure free from all encumbrances;

(b) entitlement to a prospecting license, mining lease or prospecting license-cum-mining lease to be granted by the State Government with the terms and conditions of CMDPA forming a part of it on making an application;

(c) all statutory licences, permits, permissions, approvals or consents as per rules, required to undertake coal mining operations in the mine, if already issued by the Central Government, to the prior allottee on the same terms and conditions as were applicable to the prior allottee, as listed in the **Annexure 2**;

(d) entitlement to any statutory licence, permit, permission, approval or consent required to undertake coal mining operations in the mine, if already issued by the Central Government, to the prior allottee on making an application on the same terms and conditions as were applicable to the prior allottee, as listed in the **Annexure 3**;

(e) entitlement to any statutory licence, permit, permission, approval or consent required to undertake coal mining operations in the mine, if already issued by the State Government, to

the prior allottee on making an application on the same terms and conditions as were applicable to the prior allottee, as listed in the **Annexure 4**;

(f) rights appurtenant to the approved mining plan of the prior allottee;

(g) any subsisting contract in relation to coal mining operations, to which the prior allottee was a party and which is assumed, adopted and continued by the successful bidder and listed in the **Annexure 5** shall stand novated (by virtue of a deemed consent from the relevant party(ies)), in accordance with the provisions of sub-section (1) of section 11 of the Act in favour of the successful bidder for the residual term or residual performance of such contract;

2. The successful bidder may seek any change in the terms and conditions attached to such licence, permit, permission, approval or consent by making an application in accordance with applicable laws;

3. Hereinafter, the successful bidder shall be entitled to take possession of the mine as specified in **Annexure 1** without let or hindrance;

4. This vesting order is liable to be cancelled in accordance with the provisions of sub-rule (6) of rule 13.

(By the nominated authority)

Annexures:

Annexure 1: Particulars of the mine

Part A – Description of the mine

Name of Coal Mine	**Bhaskarpara**
Coal Field	Jhilimili
Latitude	23° 21' 20" N to 23° 22' 42" N (Provisional)
Longitude	82° 45' 05" E to 82° 48' 09" E (Provisional)
Villages	Ammakhoka, Dallabahara
Tehsil/ Taluka	Surajpur
District	Surajpur
State	Chhattisgarh

Part B – Description of Land in relation to the mine

Sl No	Village	Khasra No	Area (hectare)	Deed No.	Date of Registration
1	Baijanathpur	77	1.943		
	Baijanathpur	83	0.983		
	Baijanathpur	85	1.477		
	Baijanathpur	88	1.740		
	Baijanathpur	90	0.174		
	Baijanathpur	92	0.125		
	Baijanathpur	93	0.073		
	Baijanathpur	94	0.356		
	Baijanathpur	95	0.263		
	Baijanathpur	99	0.312		
	Baijanathpur	100	0.279		
	Baijanathpur	102	0.364		
	Baijanathpur	103	0.255		
	Baijanathpur	104	0.190		
	Baijanathpur	105	0.765		
	Baijanathpur	106	0.166		
	Baijanathpur	109	5.604		
	Baijanathpur	110	3.500		
	Baijanathpur	111	0.692		
	Baijanathpur	112	0.348		
	Baijanathpur	113	1.080		
	Baijanathpur	114	0.073		
	Baijanathpur	115	0.113		
	Baijanathpur	116	0.077		
	Baijanathpur	117	0.093		
	Baijanathpur	119	1.530		
	Baijanathpur	120	1.979		
	Baijanathpur	122	0.247		

Sl No	Village	Khasra No	Area (hectare)	Deed No.	Date of Registration
	Baijanathpur	132	1.327		
	Baijanathpur	145	2.833		
	Baijanathpur	146	1.975		
	Sub Total		30.936	314*	16-09-2010
2	Baijanathpur	127	0.559		
	Baijanathpur	129	1.052		
	Baijanathpur	133	0.773		
	Baijanathpur	135	1.704		
	Baijanathpur	141	1.044		
	Baijanathpur	144	0.802		
	Sub Total		5.934	315*	16-09-2010
3	Savani	659/2	5.240		
	Savani	660	1.820		
	Savani	668	2.650		
	Sub Total		9.710	469	25-09-2010
4	Savani	519	2.000		
	Savani	524	1.240		
	Savani	647	10.800		
	Savani	648	1.000		
	Savani	649	18.000		
	Savani	651	0.110		
	Savani	655Se	1.030		
	Savani	657	2.800		
	Savani	658	6.580		
	Sub Total		43.560	468	25-09-2010
5	Savani	469	3.010		
	Sub Total		3.010	483	28-09-2010
6	Savani	170	3.240		
	Sub Total		3.240	482	28-09-2010
7	Badsara	152	3.350		
	Badsara	220	1.370		
	Sub Total		4.720	1573	14-02-2011
8	Badsara	222	0.310		
	Badsara	223	1.900		
	Badsara	229	2.350		
	Badsara	150/2017	0.160		
	Sub Total		4.720	1574	14-02-2011
9	Baijanathpur	26/2	0.840		
	Baijanathpur	26/3	1.619		
	Baijanathpur	26/4	1.347		
	Baijanathpur	26/5	1.914		
	Baijanathpur	26/6	2.120		
	Baijanathpur	26/7	1.105		
	Baijanathpur	27/2	1.918		
	Baijanathpur	27/3	0.627		

Sl No	Village	Khasra No	Area (hectare)	Deed No.	Date of Registration
	Baijanathpur	27/4	1.320		
	Baijanathpur	27/5	0.948		
	Baijanathpur	27/6	1.619		
	Baijanathpur	27/7	2.856		
	Baijanathpur	27/8	1.566		
	Baijanathpur	27/9	1.866		
	Baijanathpur	28/4	1.335		
	Baijanathpur	28/12	2.147		
	Baijanathpur	28/13	0.550		
	Baijanathpur	28/14	1.619		
	Baijanathpur	28/15	1.948		
	Baijanathpur	28/16	0.557		
	Baijanathpur	28/17	1.569		
	Baijanathpur	31/13	0.757		
	Baijanathpur	31/16	0.967		
	Baijanathpur	31/15	1.384		
	Baijanathpur	31/17	1.525		
	Baijanathpur	31/14	0.981		
	Sub Total		37.004	609	26-02-2011
10	Baijanathpur	31/10	0.770		
	Baijanathpur	60/8	0.113		
	Baijanathpur	60/5	0.656		
	Baijanathpur	54/7	0.798		
	Baijanathpur	54/8	0.658		
	Baijanathpur	54/10	2.043		
	Baijanathpur	60/4	1.824		
	Baijanathpur	71/1	0.845		
	Baijanathpur	71/5	0.728		
	Baijanathpur	71/6	0.672		
	Baijanathpur	71/3	0.672		
	Baijanathpur	74/1	1.289		
	Baijanathpur	74/10	1.720		
	Baijanathpur	74/11	1.280		
	Baijanathpur	75/1	0.519		
	Baijanathpur	76/5	2.800		
	Baijanathpur	82/1	0.834		
	Baijanathpur	84/1	1.568		
	Baijanathpur	84/12	1.544		
	Baijanathpur	89/1	0.546		
	Baijanathpur	101	0.628		
	Baijanathpur	128	1.513		
	Baijanathpur	136/1	1.918		
	Sub Total		25.938	608	26-02-2011
11	Baijanathpur	98	0.595		
	Baijanathpur	63	0.563		

Sl No	Village	Khasra No	Area (hectare)	Deed No.	Date of Registration
	Baijanathpur	78	0.206		
	Sub Total		1.364	665	15-03-2011
12	Judwania	20	0.790		
	Judwania	26	1.200		
	Judwania	28	0.650		
	Judwania	29	0.250		
	Judwania	30	1.160		
	Judwania	36	1.460		
	Judwania	38	0.330		
	Judwania	40	0.180		
	Judwania	41	0.290		
	Judwania	42/1	26.110		
	Judwania	48	1.600		
	Sub Total		34.020	778	18-03-2011
13	Kanchi	29	1.019		
	Kanchi	69	1.011		
	Kanchi	112	0.142		
	Kanchi	114	0.049		
	Kanchi	180/2	0.607		
	Kanchi	217	0.567		
	Kanchi	218	0.235		
	Kanchi	219	0.806		
	Kanchi	247	0.518		
	Kanchi	254/1	0.364		
	Kanchi	255	0.397		
	Kanchi	267	0.134		
	Kanchi	285	1.323		
	Kanchi	307	0.295		
	Kanchi	359	0.567		
	Kanchi	360	0.316		
	Kanchi	364/2/500	0.567		
	Kanchi	366/1	1.821		
	Kanchi	369	0.821		
	Kanchi	370	0.150		
	Kanchi	382	0.129		
	Kanchi	408	1.149		
	Kanchi	411/2	0.405		
	Kanchi	419	0.308		
	Kanchi	422	0.332		
	Kanchi	434	0.219		
	Kanchi	445	0.275		
	Kanchi	454	0.061		
	Kanchi	461	0.081		
	Kanchi	467	0.109		
	Kanchi	493	0.073		

Sl No	Village	Khasra No	Area (hectare)	Deed No.	Date of Registration
	Kanchi	501	0.526		
	Kanchi	512	0.032		
	Kanchi	526	0.121		
	Kanchi	530	0.470		
	Kanchi	549	0.105		
	Kanchi	553	0.069		
	Kanchi	557/1	0.287		
	Kanchi	562	0.332		
	Kanchi	606/1	0.672		
	Sub Total		17.464	452	26-03-2011
14	Potali	170	1.310		
	Potali	171	0.770		
	Potali	177	4.040		
	Potali	182	0.310		
	Potali	184	0.220		
	Potali	185	0.160		
	Potali	186	6.540		
	Potali	187	2.200		
	Potali	198	0.550		
	Potali	199	1.740		
	Potali	200	1.120		
	Potali	202	1.100		
	Potali	292	0.320		
	Potali	293	0.940		
	Potali	294	0.210		
	Potali	341	0.420		
	Potali	385	1.280		
	Potali	386/1777	0.810		
	Sub Total		24.040		19-08-2013
15	Potali	127	2.260		
	Potali	128	1.470		
	Potali	129	17.730		
	Potali	132	1.710		
	Potali	133	0.230		
	Potali	134	0.410		
	Potali	136	0.380		
	Potali	137	0.160		
	Potali	143	1.420		
	Potali	148	0.280		
	Potali	152	4.200		
	Potali	157	5.260		
	Potali	160	13.250		
	Sub Total		48.760		19-08-2013
	Total		294.420		

Part C – Description of Mine Infrastructure in relation to the mine

C1- Mine Infrastructure: Immovable Assets

Nil

C2- Mine Infrastructure: Land for Compensatory Afforestation

Type of Land: Freehold Land for Compensatory Afforestation

S. No.	Location of the land (Village/ Taluka/District)	Deed Number	Date of Sale Deed execution / Registration	Area (Hectare)
1	Baijnathpur/Batauli/ Sarguja	314	16/09/2010	30.936
2	Baijnathpur/Batauli/ Sarguja	315	06/09/2010	5.934
3	Sawni /Balrampur / Balrampur-Ramanujganj	469	25/09/2010	9.71
4	Sawni /Balrampur / Balrampur-Ramanujganj	468	25/09/2010	43.56
5	Sawni /Balrampur / Balrampur-Ramanujganj	483	28/09/2010	3.01
6	Sawni /Balrampur / Balrampur-Ramanujganj	482	28/09/2010	3.24
7	Baijnathpur/Batauli/Sarguja	609	26/02/2011	37.004
8	Baijnathpur/Batauli/Sarguja	608	26/02/2011	25.938
9	Baijnathpur/Batauli/Sarguja	665	15/03/2011	1.364
10	Judwania / Odagi / Surajpur	778	18/03/2011	34.02
11	Kaanchi /Manora / Jashpur	452	26/03/2012	17.464
12	Potali / Kuwakonda / Dantewara	47-5	19/08/2013	48.76
13	Potali / Kuwakonda / Dantewara	47-3	19/08/2013	24.04
	Total			**284.98**

Type of Land: Leasehold Land for Compensatory Afforestation

Nature	Area (Hectares)
Government Land	-
Private Land	-
Forest Land	-

C3- Mine Infrastructure: Resettlement and Rehabilitation Land

Type of Land: Resettlement and Rehabilitation Freehold Land

Nil

Type of Land: Resettlement and Rehabilitation Leasehold Land

Nature	Area (Hectares)
Government Land	-
Private Land	-
Forest Land	-

Prepared By Awadhesh Kumar Sinha On 12/05/2022

Annexure 2: Particulars of statutory licences, permits, permissions, approvals or consents issued by the Central Government which are being transferred along with this vesting order.

S. No	Statutory Clearance	Ministry/ Agency	Letter No.	Date
1.	Approval of Mining Plan	Ministry of Coal	No. 13016/54/2008-CA-I	25.03.2010
2.	Mining Lease – Administrative Approval of the Central Government under Section 5 (1) and/ or Section 6 (1) of MMDR Act, 1957	Ministry of Coal	No. 13016/54/2008-CA-I (Vol.III)	15.05.2012

Annexure 3: Particulars of statutory licences, permits, permissions, approvals or consents issued by the Central Government to be obtained on application by the successful bidder.

S. No	Statutory Clearance	Ministry/ Agency	Letter No.	Date
1.	Grant of TOR before EC Subject: Bhaskarpara Opencast & Underground Coal Mine Project (1 MTPA in 920 ha) of M/s Bhaskarpara Coal Company Ltd., located in Tehsil Bhiyathan, District Sarguja, Chattisgarh – Terms of Reference (TOR) – reg.	Ministry of Environment and Forests	J-11015/25/2010-IA.II(M)	09.04.2010
2.	Ground Water Clearance NoC for ground water withdrawal by M/s Bhaskarpara Coal Company Ltd, in respect of their proposed opencast and underground coal mining, at village Bhaskarpara, Tehsil Bhaiyathan, District Surguja, Chhattisgarh – reg.	Ministry of Water Resources – Central Ground Water Authority	No.21-4 (77)/ NCCR/ CGWA/2010-2171	03.08.2010
3.	Railway Siding Approval – In principle approval	South East Central Railway	No. Optg/ SECR/ Plg/ BCCL-KTO/32	27.07.2010

Annexure 4: Particulars of statutory licences, permits, permissions, approvals or consents issued by the State Government to be obtained on application by the successful bidder.

Not Applicable

Annexure 5: Particulars of the contracts adopted by the successful bidder

The successful bidder does not intend to adopt and continue with any of the contracts of the prior allottee.

Annexure 2A

POINT NO	Latitude (N)	Longitud (E)
P-1	23° 21' 37.318"	82° 46' 9.651"
P-2	23° 21' 36.922"	82° 46' 8.304"
P-3	23° 21' 36.173"	82° 46' 4.592"
P-4	23° 21' 35.966"	82° 46' 2.687"
P-5	23° 21' 35.917"	82° 46' 1.385"
P-6	23° 21' 35.975"	82° 46' 0.302"
P-7	23° 21' 35.718"	82° 45' 59.156"
P-8	23° 21' 35.390"	82° 45' 57.673"
P-9	23° 21' 35.143"	82° 45' 56.523"
P-10	23° 21' 35.028"	82° 45' 56.017"
P-11	23° 21' 34.892"	82° 45' 54.735"
P-12	23° 21' 34.783"	82° 45' 53.297"
P-13	23° 21' 34.688"	82° 45' 50.985"
P-14	23° 21' 34.652"	82° 45' 49.500"
P-15	23° 21' 34.628"	82° 45' 48.965"
P-16	23° 21' 34.568"	82° 45' 47.086"
P-17	23° 21' 34.537"	82° 45' 46.712"
P-18	23° 21' 34.525"	82° 45' 45.983"
P-19	23° 21' 34.436"	82° 45' 45.326"
P-20	23° 21' 34.371"	82° 45' 44.411"
P-21	23° 21' 34.257"	82° 45' 43.460"
P-22	23° 21' 34.081"	82° 45' 42.180"
P-23	23° 21' 33.984"	82° 45' 41.505"
P-24	23° 21' 33.914"	82° 45' 41.020"
P-25	23° 21' 33.809"	82° 45' 40.476"
P-26	23° 21' 33.751"	82° 45' 40.229"
P-27	23° 21' 33.645"	82° 45' 39.776"
P-28	23° 21' 33.297"	82° 45' 38.466"
P-29	23° 21' 33.177"	82° 45' 38.050"
P-30	23° 21' 33.080"	82° 45' 37.763"
P-31	23° 21' 32.851"	82° 45' 37.076"
P-32	23° 21' 32.586"	82° 45' 36.495"
P-33	23° 21' 32.297"	82° 45' 35.926"
P-34	23° 21' 31.629"	82° 45' 34.635"
P-35	23° 21' 31.363"	82° 45' 33.938"
P-36	23° 21' 31.233"	82° 45' 33.449"
P-37	23° 21' 29.891"	82° 45' 30.470"
P-38	23° 21' 29.440"	82° 45' 29.374"
P-39	23° 21' 29.139"	82° 45' 28.507"
P-40	23° 21' 28.755"	82° 45' 27.660"
P-41	23° 21' 28.253"	82° 45' 26.555"
P-42	23° 21' 28.109"	82° 45' 26.256"
P-43	23° 21' 27.653"	82° 45' 23.599"
P-44	23° 21' 27.501"	82° 45' 22.916"
P-45	23° 21' 27.317"	82° 45' 21.741"
P-46	23° 21' 27.182"	82° 45' 20.832"
P-47	23° 21' 27.090"	82° 45' 20.354"
P-48	23° 21' 26.889"	82° 45' 19.609"
P-49	23° 21' 26.654"	82° 45' 18.855"
P-50	23° 21' 26.427"	82° 45' 18.138"
P-51	23° 21' 25.995"	82° 45' 17.088"
P-52	23° 21' 25.621"	82° 45' 16.393"
P-53	23° 21' 25.002"	82° 45' 15.244"
P-54	23° 21' 24.443"	82° 45' 14.217"
P-55	23° 21' 23.954"	82° 45' 13.410"
P-56	23° 21' 23.127"	82° 45' 11.786"
P-57	23° 21' 22.477"	82° 45' 10.458"
P-58	23° 21' 21.856"	82° 45' 8.922"
P-59	23° 21' 21.413"	82° 45' 7.673"
P-60	23° 21' 21.058"	82° 45' 6.791"
P-61	23° 21' 20.797"	82° 45' 6.141"
P-62	23° 21' 33.696"	82° 45' 5.782"
P-63	23° 22' 8.423"	82° 45' 5.282"
P-64	23° 22' 37.809"	82° 45' 5.344"
	23° 22' 39.244"	82° 45' 5.270"

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POINT NO	Latitude (N)	Longitud (E)
P-66	23° 22' 40.159"	82° 45' 11.813"
P-67	23° 22' 40.895"	82° 45' 16.593"
P-68	23° 22' 41.379"	82° 45' 20.619"
P-69	23° 22' 41.506"	82° 45' 23.823"
P-70	23° 22' 41.336"	82° 45' 28.322"
P-71	23° 22' 41.213"	82° 45' 30.928"
P-72	23° 22' 41.025"	82° 45' 35.305"
P-73	23° 22' 41.232"	82° 45' 40.046"
P-74	23° 22' 41.273"	82° 45' 42.624"
P-75	23° 22' 41.426"	82° 45' 45.914"
P-76	23° 22' 41.481"	82° 45' 50.127"
P-77	23° 22' 41.437"	82° 45' 51.723"
P-78	23° 22' 41.390"	82° 45' 53.788"
P-79	23° 22' 41.390"	82° 45' 55.135"
P-80	23° 22' 41.441"	82° 45' 57.322"
P-81	23° 22' 41.477"	82° 45' 58.221"
P-82	23° 22' 41.558"	82° 45' 59.511"
P-83	23° 22' 41.590"	82° 46' 0.166"
P-84	23° 22' 41.671"	82° 46' 2.150"
P-85	23° 22' 41.713"	82° 46' 3.114"
P-86	23° 22' 41.786"	82° 46' 6.001"
P-87	23° 22' 41.814"	82° 46' 9.968"
P-88	23° 22' 41.805"	82° 46' 10.969"
P-89	23° 22' 41.664"	82° 46' 13.969"
P-90	23° 22' 41.589"	82° 46' 15.679"
P-91	23° 22' 41.556"	82° 46' 16.431"
P-92	23° 22' 41.321"	82° 46' 20.639"
P-93	23° 22' 41.198"	82° 46' 21.951"
P-94	23° 22' 41.085"	82° 46' 22.937"
P-95	23° 22' 40.788"	82° 46' 27.542"
P-96	23° 22' 40.696"	82° 46' 28.806"
P-97	23° 22' 40.267"	82° 46' 32.707"
P-98	23° 22' 40.115"	82° 46' 33.576"
P-99	23° 22' 39.196"	82° 46' 37.568"
P-100	23° 22' 37.243"	82° 46' 44.076"
P-101	23° 22' 36.967"	82° 46' 44.958"
P-102	23° 22' 36.501"	82° 46' 46.536"
P-103	23° 22' 36.269"	82° 46' 47.389"
P-104	23° 22' 36.191"	82° 46' 47.668"
P-105	23° 22' 35.766"	82° 46' 49.288"
P-106	23° 22' 35.559"	82° 46' 50.473"
P-107	23° 22' 35.380"	82° 46' 51.647"
P-108	23° 22' 35.145"	82° 46' 53.525"
P-109	23° 22' 35.042"	82° 46' 54.689"
P-110	23° 22' 34.960"	82° 46' 55.602"
P-111	23° 22' 34.786"	82° 46' 58.816"
P-112	23° 22' 34.736"	82° 46' 59.978"
P-113	23° 22' 34.696"	82° 47' 0.941"
P-114	23° 22' 34.503"	82° 47' 3.953"
P-115	23° 22' 34.508"	82° 47' 5.788"
P-116	23° 22' 34.395"	82° 47' 8.188"
P-117	23° 22' 34.049"	82° 47' 12.805"
P-118	23° 22' 33.681"	82° 47' 16.694"
P-119	23° 22' 33.455"	82° 47' 19.038"
P-120	23° 22' 33.206"	82° 47' 21.110"
P-121	23° 22' 32.405"	82° 47' 25.834"
P-122	23° 22' 32.162"	82° 47' 26.973"
P-123	23° 22' 31.932"	82° 47' 27.841"
P-124	23° 22' 31.489"	82° 47' 30.202"
P-125	23° 22' 31.215"	82° 47' 31.397"
P-126	23° 22' 29.696"	82° 47' 36.811"
P-127	23° 22' 29.232"	82° 47' 38.382"
P-128	23° 22' 28.905"	82° 47' 39.373"
P-129	23° 22' 27.500"	82° 47' 43.181"
P-130	23° 22' 26.866"	82° 47' 44.661"
P-131	23° 22' 26.148"	82° 47' 46.223"
P-132	23° 22' 25.591"	82° 47' 47.334"
P-133	23° 22' 23.382"	82° 47' 51.606"

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POINT NO	Latitude (N)	Longitud (E)
P-134	23° 22' 22.035"	82° 47' 54.559"
P-135	23° 22' 4.340"	82° 48' 8.481"
P-136	23° 22' 4.243"	82° 48' 8.245"
P-137	23° 22' 3.910"	82° 48' 7.119"
P-138	23° 22' 3.789"	82° 48' 6.763"
P-139	23° 22' 3.704"	82° 48' 6.293"
P-140	23° 22' 3.608"	82° 48' 5.894"
P-141	23° 22' 3.543"	82° 48' 5.474"
P-142	23° 22' 3.487"	82° 48' 5.233"
P-143	23° 22' 3.350"	82° 48' 4.528"
P-144	23° 22' 3.261"	82° 48' 4.062"
P-145	23° 22' 3.225"	82° 48' 3.738"
P-146	23° 22' 3.179"	82° 48' 3.471"
P-147	23° 22' 3.117"	82° 48' 3.014"
P-148	23° 22' 3.029"	82° 48' 2.413"
P-149	23° 22' 2.983"	82° 48' 1.885"
P-150	23° 22' 2.841"	82° 48' 1.487"
P-151	23° 22' 2.796"	82° 48' 1.096"
P-152	23° 22' 2.720"	82° 48' 0.201"
P-153	23° 22' 2.563"	82° 47' 58.851"
P-154	23° 22' 2.562"	82° 47' 58.213"
P-155	23° 22' 2.554"	82° 47' 57.720"
P-156	23° 22' 2.528"	82° 47' 57.180"
P-157	23° 22' 2.473"	82° 47' 56.687"
P-158	23° 22' 2.439"	82° 47' 56.175"
P-159	23° 22' 2.314"	82° 47' 55.460"
P-160	23° 22' 2.030"	82° 47' 54.616"
P-161	23° 22' 1.799"	82° 47' 53.859"
P-162	23° 22' 1.595"	82° 47' 53.271"
P-163	23° 22' 1.379"	82° 47' 52.767"
P-164	23° 22' 1.062"	82° 47' 52.226"
P-165	23° 22' 0.884"	82° 47' 51.917"
P-166	23° 22' 0.178"	82° 47' 51.308"
P-167	23° 21' 59.755"	82° 47' 50.999"
P-168	23° 21' 59.303"	82° 47' 50.761"
P-169	23° 21' 59.088"	82° 47' 50.625"
P-170	23° 21' 59.235"	82° 47' 50.184"
P-171	23° 22' 1.564"	82° 47' 43.725"
P-172	23° 22' 2.046"	82° 47' 42.432"
P-173	23° 22' 2.639"	82° 47' 40.822"
P-174	23° 22' 3.915"	82° 47' 37.364"
P-175	23° 22' 3.688"	82° 47' 37.481"
P-176	23° 22' 3.059"	82° 47' 37.932"
P-177	23° 22' 2.473"	82° 47' 38.362"
P-178	23° 22' 1.673"	82° 47' 38.727"
P-179	23° 22' 1.483"	82° 47' 38.810"
P-180	23° 22' 1.236"	82° 47' 38.861"
P-181	23° 22' 1.009"	82° 47' 38.882"
P-182	23° 22' 0.893"	82° 47' 38.854"
P-183	23° 22' 0.724"	82° 47' 38.810"
P-184	23° 22' 0.577"	82° 47' 38.670"
P-185	23° 22' 0.426"	82° 47' 38.435"
P-186	23° 22' 0.193"	82° 47' 38.038"
P-187	23° 21' 59.957"	82° 47' 37.613"
P-188	23° 21' 59.766"	82° 47' 37.141"
P-189	23° 21' 59.685"	82° 47' 36.660"
P-190	23° 21' 59.639"	82° 47' 35.635"
P-191	23° 21' 59.619"	82° 47' 34.613"
P-192	23° 21' 59.678"	82° 47' 34.376"
P-193	23° 21' 59.730"	82° 47' 33.754"
P-194	23° 21' 59.694"	82° 47' 33.533"
P-195	23° 21' 59.606"	82° 47' 33.338"
P-196	23° 21' 59.424"	82° 47' 33.213"
P-197	23° 21' 59.189"	82° 47' 33.149"
P-198	23° 21' 58.776"	82° 47' 33.316"
P-199	23° 21' 58.474"	82° 47' 33.534"
P-200	23° 21' 57.993"	82° 47' 33.749"
P-201	23° 21' 57.806"	82° 47' 33.836"

Prepared By Awadhesh Kumar Sinha On 12/05/2022

POINT NO	Latitude (N)	Longitud (E)
P-202	23° 21' 57.440"	82° 47' 33.900"
P-203	23° 21' 56.839"	82° 47' 33.780"
P-204	23° 21' 56.602"	82° 47' 33.686"
P-205	23° 21' 56.071"	82° 47' 33.338"
P-206	23° 21' 55.880"	82° 47' 33.178"
P-207	23° 21' 55.670"	82° 47' 32.941"
P-208	23° 21' 55.527"	82° 47' 32.762"
P-209	23° 21' 55.341"	82° 47' 32.444"
P-210	23° 21' 55.195"	82° 47' 32.140"
P-211	23° 21' 55.042"	82° 47' 31.752"
P-212	23° 21' 54.995"	82° 47' 31.543"
P-213	23° 21' 53.730"	82° 47' 34.900"
P-214	23° 21' 53.417"	82° 47' 35.777"
P-215	23° 21' 52.934"	82° 47' 37.196"
P-216	23° 21' 52.103"	82° 47' 39.679"
P-217	23° 21' 51.705"	82° 47' 40.874"
P-218	23° 21' 51.280"	82° 47' 42.189"
P-219	23° 21' 51.010"	82° 47' 43.257"
P-220	23° 21' 50.728"	82° 47' 44.242"
P-221	23° 21' 50.496"	82° 47' 45.006"
P-222	23° 21' 49.755"	82° 47' 47.770"
P-223	23° 21' 47.274"	82° 47' 48.454"
P-224	23° 21' 46.695"	82° 47' 48.519"
P-225	23° 21' 45.994"	82° 47' 48.597"
P-226	23° 21' 45.228"	82° 47' 48.652"
P-227	23° 21' 44.840"	82° 47' 48.547"
P-228	23° 21' 44.214"	82° 47' 48.251"
P-229	23° 21' 44.043"	82° 47' 48.093"
P-230	23° 21' 43.743"	82° 47' 47.555"
P-231	23° 21' 43.318"	82° 47' 46.519"
P-232	23° 21' 43.042"	82° 47' 45.482"
P-233	23° 21' 42.901"	82° 47' 44.973"
P-234	23° 21' 42.534"	82° 47' 44.252"
P-235	23° 21' 42.269"	82° 47' 43.809"
P-236	23° 21' 41.812"	82° 47' 43.245"
P-237	23° 21' 40.944"	82° 47' 42.597"
P-238	23° 21' 39.689"	82° 47' 41.878"
P-239	23° 21' 38.779"	82° 47' 41.593"
P-240	23° 21' 37.954"	82° 47' 41.452"
P-241	23° 21' 36.896"	82° 47' 41.374"
P-242	23° 21' 36.506"	82° 47' 41.309"
P-243	23° 21' 35.974"	82° 47' 41.199"
P-244	23° 21' 35.389"	82° 47' 41.073"
P-245	23° 21' 34.846"	82° 47' 40.970"
P-246	23° 21' 34.076"	82° 47' 41.041"
P-247	23° 21' 33.687"	82° 47' 41.019"
P-248	23° 21' 33.080"	82° 47' 41.011"
P-249	23° 21' 31.808"	82° 47' 40.972"
P-250	23° 21' 30.939"	82° 47' 40.976"
P-251	23° 21' 30.815"	82° 47' 40.927"
P-252	23° 21' 30.359"	82° 47' 40.532"
P-253	23° 21' 30.158"	82° 47' 40.351"
P-254	23° 21' 29.651"	82° 47' 39.913"
P-255	23° 21' 29.221"	82° 47' 39.475"
P-256	23° 21' 28.882"	82° 47' 39.016"
P-257	23° 21' 28.611"	82° 47' 38.473"
P-258	23° 21' 28.439"	82° 47' 38.160"
P-259	23° 21' 28.256"	82° 47' 37.726"
P-260	23° 21' 28.053"	82° 47' 37.188"
P-261	23° 21' 28.048"	82° 47' 36.971"
P-262	23° 21' 28.070"	82° 47' 36.668"
P-263	23° 21' 28.126"	82° 47' 36.409"
P-264	23° 21' 28.303"	82° 47' 35.731"
P-265	23° 21' 28.378"	82° 47' 35.411"
P-266	23° 21' 28.486"	82° 47' 35.120"
P-267	23° 21' 28.631"	82° 47' 34.728"
P-268	23° 21' 28.766"	82° 47' 34.388"
P-269	23° 21' 29.024"	82° 47' 33.860"

Prepared By Awadhesh Kumar Sinha On 12/05/2022

POINT NO	Latitude (N)	Longitud (E)
P-270	23° 21' 29.247"	82° 47' 33.510"
P-271	23° 21' 29.586"	82° 47' 33.042"
P-272	23° 21' 30.219"	82° 47' 32.142"
P-273	23° 21' 30.310"	82° 47' 31.984"
P-274	23° 21' 30.376"	82° 47' 31.763"
P-275	23° 21' 30.451"	82° 47' 31.446"
P-276	23° 21' 30.447"	82° 47' 31.180"
P-277	23° 21' 30.385"	82° 47' 31.077"
P-278	23° 21' 30.241"	82° 47' 30.886"
P-279	23° 21' 29.849"	82° 47' 30.441"
P-280	23° 21' 29.355"	82° 47' 29.764"
P-281	23° 21' 28.809"	82° 47' 28.903"
P-282	23° 21' 27.852"	82° 47' 27.395"
P-283	23° 21' 27.410"	82° 47' 26.314"
P-284	23° 21' 27.348"	82° 47' 26.034"
P-285	23° 21' 27.233"	82° 47' 25.230"
P-286	23° 21' 27.009"	82° 47' 23.387"
P-287	23° 21' 26.927"	82° 47' 22.220"
P-288	23° 21' 26.872"	82° 47' 21.210"
P-289	23° 21' 26.867"	82° 47' 19.707"
P-290	23° 21' 26.931"	82° 47' 18.970"
P-291	23° 21' 27.009"	82° 47' 17.738"
P-292	23° 21' 27.118"	82° 47' 16.808"
P-293	23° 21' 27.253"	82° 47' 15.812"
P-294	23° 21' 27.485"	82° 47' 13.334"
P-295	23° 21' 27.649"	82° 47' 11.528"
P-296	23° 21' 27.883"	82° 47' 9.781"
P-297	23° 21' 28.024"	82° 47' 8.614"
P-298	23° 21' 28.280"	82° 47' 7.560"
P-299	23° 21' 28.554"	82° 47' 6.183"
P-300	23° 21' 30.062"	82° 47' 1.204"
P-301	23° 21' 30.655"	82° 46' 59.440"
P-302	23° 21' 31.375"	82° 46' 57.663"
P-303	23° 21' 32.309"	82° 46' 55.249"
P-304	23° 21' 33.540"	82° 46' 52.358"
P-305	23° 21' 34.224"	82° 46' 50.673"
P-306	23° 21' 34.830"	82° 46' 48.876"
P-307	23° 21' 35.184"	82° 46' 48.006"
P-308	23° 21' 35.841"	82° 46' 46.125"
P-309	23° 21' 36.295"	82° 46' 44.750"
P-310	23° 21' 36.518"	82° 46' 43.489"
P-311	23° 21' 37.274"	82° 46' 40.303"
P-312	23° 21' 37.851"	82° 46' 38.518"
P-313	23° 21' 37.974"	82° 46' 37.572"
P-314	23° 21' 38.174"	82° 46' 36.268"
P-315	23° 21' 38.452"	82° 46' 34.659"
P-316	23° 21' 38.838"	82° 46' 32.778"
P-317	23° 21' 39.121"	82° 46' 30.474"
P-318	23° 21' 39.318"	82° 46' 29.716"
P-319	23° 21' 40.515"	82° 46' 28.089"
P-320	23° 21' 40.844"	82° 46' 27.079"
P-321	23° 21' 41.037"	82° 46' 26.531"
P-322	23° 21' 41.072"	82° 46' 25.896"
P-323	23° 21' 41.126"	82° 46' 25.417"
P-324	23° 21' 41.204"	82° 46' 25.087"
P-325	23° 21' 41.397"	82° 46' 24.463"
P-326	23° 21' 41.514"	82° 46' 23.816"
P-327	23° 21' 41.666"	82° 46' 23.036"
P-328	23° 21' 41.751"	82° 46' 22.350"
P-329	23° 21' 41.891"	82° 46' 21.757"
P-330	23° 21' 41.966"	82° 46' 21.337"
P-331	23° 21' 42.013"	82° 46' 20.704"
P-332	23° 21' 42.103"	82° 46' 20.101"
P-333	23° 21' 42.164"	82° 46' 19.547"
P-334	23° 21' 42.264"	82° 46' 19.237"
P-335	23° 21' 42.345"	82° 46' 19.090"
P-336	23° 21' 42.434"	82° 46' 19.008"
P-337	23° 21' 42.534"	82° 46' 18.926"

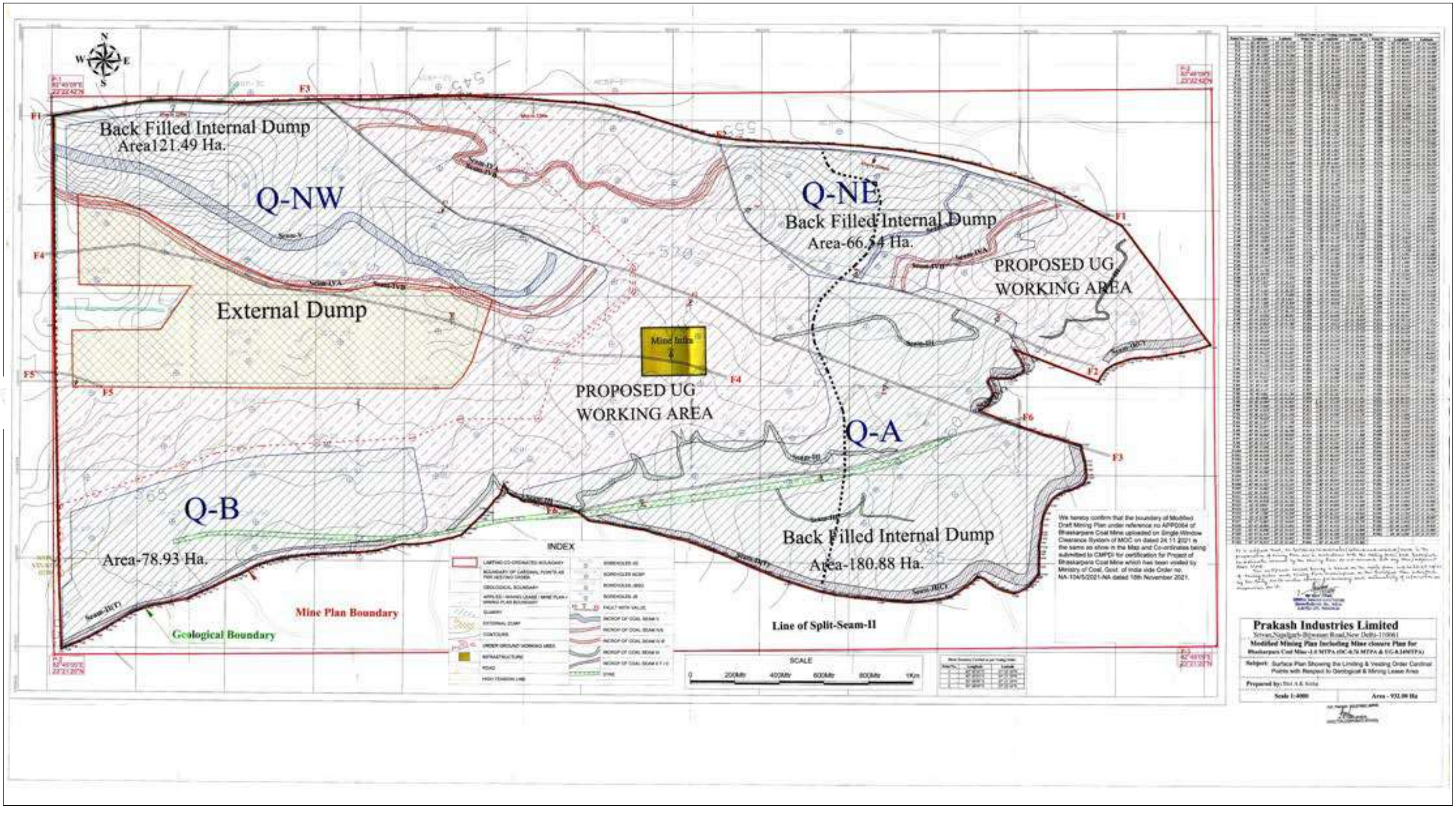
Prepared By Awadhesh Kumar Sinha On 12/05/2022

POINT NO	Latitude (N)	Longitud (E)
P-338	23° 21' 42.613"	82° 46' 18.810"
P-339	23° 21' 42.735"	82° 46' 18.626"
P-340	23° 21' 42.846"	82° 46' 18.363"
P-341	23° 21' 42.946"	82° 46' 18.053"
P-342	23° 21' 43.221"	82° 46' 17.402"
P-343	23° 21' 43.399"	82° 46' 17.104"
P-344	23° 21' 43.698"	82° 46' 16.928"
P-345	23° 21' 43.968"	82° 46' 16.799"
P-346	23° 21' 44.333"	82° 46' 16.617"
P-347	23° 21' 44.453"	82° 46' 16.560"
P-348	23° 21' 44.542"	82° 46' 16.489"
P-349	23° 21' 44.588"	82° 46' 16.391"
P-350	23° 21' 44.518"	82° 46' 16.309"
P-351	23° 21' 44.349"	82° 46' 16.240"
P-352	23° 21' 44.023"	82° 46' 16.124"
P-353	23° 21' 43.762"	82° 46' 16.019"
P-354	23° 21' 43.334"	82° 46' 15.838"
P-355	23° 21' 43.074"	82° 46' 15.663"
P-356	23° 21' 42.846"	82° 46' 15.450"
P-357	23° 21' 42.491"	82° 46' 14.985"
P-358	23° 21' 41.986"	82° 46' 14.599"
P-359	23° 21' 41.112"	82° 46' 13.782"
P-360	23° 21' 40.689"	82° 46' 13.363"
P-361	23° 21' 40.218"	82° 46' 12.854"
P-362	23° 21' 39.858"	82° 46' 12.466"
P-363	23° 21' 37.906"	82° 46' 10.297"
P-364	23° 21' 37.576"	82° 46' 9.928"

Prepared By Awadhesh Kumar Sinha On 12/05/2022

Annexure 2B

Prepared By Awadhesh Kumar Sinha On 12/05/2022



Annexure-3A1

Prakash Industries Limited

Srivan, Bijwasan, New Delhi - 110061
CIN : L27109HR1980PLC010724
Tel. : 25305800, 28062115 Fax : 91-11-28062119
E-mail : pilho@prakash.com Website : www.prakash.com

CERTIFIED COPY OF THE RESOLUTION PASSED AT THE MEETING OF BOARD OF DIRECTORS OF THE COMPANY HELD ON MONDAY, THE 25TH OCTOBER, 2021 AT NEW DELHI

"RESOLVED THAT the consent of the Board of Directors of the Company (" Board") be and is hereby given that the Mine will be developed as per approval of the Mining Plan from Ministry of Coal and all other approvals, as required will be obtained from all relevant Authorities.

RESOLVED FURTHER THAT the Board be and is hereby undertake that the Board has verified the correctness of data used in preparation in mining plan as prepared by qualified Person/ Accredited Mining Plan preparing Agency (MPPA), the details of qualified Person/ Accredited Mining Plan preparing Agency (MPPA) are as under:

Qualified Person	:	Shri Awadhesh Kumar Sinha, Qualified Person under Rule 22B(2)(i) of MCR 1960)
Accredited Mining Plan preparing Agency (MPPA),	:	Matrix Mining Solution Private Limited, Certificate No. NABET/APA-MPPA/IA/005 Address - STS-502, 5th Floor, DLF Star Tower, Sector-3 Gurugram - 122001 (Haryana)

RESOLVED FURTHER THAT the Board be and is hereby verified the credential and eligibility of qualified Person/ MPPA as per Eligibility mentioned in the agreement.

RESOLVED FURTHER THAT the consent of the Board be and hereby given for commitment to execute, develop and implement the entire mining operation, which will be carried out as per the Statutory provisions given and modified/amended from time to time under Mines Act 1952, Coal Mine Regulation 2017, EP Act 1986 and FC Act 1980 and wherever specific permission required from any statutory authorities, and such required permission will be taken from concerned Authorities.

RESOLVED FURTHER THAT the consent of the Board be and is hereby given to fulfill its all financial obligations which will be required, specified and also modified/amended from time to time for operationalization of Mine.

RESOLVED FURTHER THAT the consent of the Board be and is hereby given to undertake and ensure that the reclamation and rehabilitation work shall be carried out in accordance with Mine Closure Plan and any modification/ amendments which may be made in the Mine Closure Plan by Ministry of Coal from time to time.

RESOLVED FURTHER THAT the consent of the Board be and is hereby given to undertake and ensure that the protective measures contained in the Mine Closure plan and final mine closure plan and also undertake to ensure for submission of yearly report on or before 1st July of every year to the Coal Controller, setting forth the extent of protective and rehabilitative works carried out by the Company as envisaged in the approved mine closure plans (Progressive and Final Closure).

PRAKASH INDUSTRIES LIMITED NEW DELHI

Contd.....2

Prepared By Awadhesh Kumar Sinha On 12/05/2022

RESOLVED FURTHER THAT the consent of the Board be and is hereby given to obtain a mine closure certificate from Coal Controller to the effect that the protective, reclamation and rehabilitation works carried out in accordance with the approved mine closure plan/final closure plan and will surrender the reclaimed land to the state Government concerned."

**// Certified True Copy **
For Prakash Industries Limited

Ashwini Kumar

Ashwini Kumar
Company Secretary
M.No.11446

PRAKASH INDUSTRIES LIMITED NEW DELHI

Prepared By Awadhesh Kumar Sinha On 12/05/2022

Annexure 4

Application No.
BHASKARPARA COAL MINECT/APP0064/2021
Coal Controller Organization
A subordinate organization of
Ministry of Coal, Government of India,

ShastriBhawan, New Delhi
2022-03-10

To
PRAKASH INDUSTRIES LIMITED
Address
PRAKASH INDUSTRIES LIMITED State- Chhattisgarh District- Surajpur
Email: akc@prakash.com
Contact: 9811459718
Fax:

Subject: Approval of Mining Plan and Mine Closure Plan (first Modification) forBHASKARPARA COAL MINE of M/s PRAKASH INDUSTRIES LIMITED

Sir,
I am directed to refer to your application for approval of Mining Plan and Mine Closure Plan for BHASKARPARA COAL MINE located inJHILIMILI Coal Field Submitted through application number APP0064 of Single Window Portal of Ministry of Coal for approval of the Central Government under Rule 22EOf MCR 1960 for a rated capacity of 1Mtpa Peak rated capacity 1.5000 Mtpa, Lease area932Ha and Project area932 Ha has been considered and in-Principle approval of the Central Government there on is here by conveyed under Section 5(2)(b) of the Mines & Minerals (Development & Regulation) Act 1957 subject to the following conditions:

1. The project proponent should ensure implementation of all observations made by internal committee during actual operation.
2. Project Proponent shall take all necessary precautions regarding safety of mine workings and persons deployed therein.
3. Mining lease of this block shall not encroach into any other adjacent coal block.
4. The cost of abandonment for carrying out the closure activities envisaged in the Mine closure plan is indicative. The actual cost for carrying out the activities at the time of final closure may be higher. The actual cost of abandonment will have to be borne by the project proponent for carrying out the closure activities.
5. The approval of the Mining Plan (Including Mine Closure Plan) is without prejudice to the requirement of approvals from competent /prescribed authority under the relevant rules/ regulations etc.
6. Approval of Mining plan is technical in nature, which is granted with a view to facilitating further developmental activities by the allocattee. This approval will have no effect on the penalty provisions of the agreement in case of nonachievement of Milestones.
7. Monitoring of milestone for development of mine will be as per efficiency parameters in CBDPA/CMDPA and appropriation of PBG will be done in case of failure/delay in compliance with the timelines of CBDPA/CMDPA.
8. Approval of Mining Plan and Mine Closure Plan is restricted to the activities / structures/evacuation route/ roads/ water bodies/other surface features/land outline/infrastructure within the Geological Block/Project Area. Other activities / structures /evacuation route/ roads/ water bodies/other surface features/ land outline/ infrastructure outside the Geological Block/Project Area shall not be part of the Mining Plan (in line with para 1.6 of MoC guidelines for preparation of Mining Plan dated 29.05.2020).
9. In the report, future program of exploration has been proposed (refer para 2.2.9 of the Mining Plan). Also, it has been proposed that a Revised Mining Plan , further detailing of Mining Scheme (as per guidelines of MoC for Mining Plan dated 29.05.2020) for underground mining, would be submitted in Y-6 (refer Additional Annexure-11 of the Mining Plan) as production from underground has been proposed from Y-8 year (Yr. 2030-31). The project proponent shall submit a Revised Mining Plan latest by Y-6 (Yr. 2028-29) further detailing the aforesaid mining scheme from

Approved

10/03/2022

Prepared By Awadhesh Kumar Sinha On 12/05/2022

underground mining and liquidation program of additional reserves established as a result of the proposed exploration program.

10. In the report, realignment of the diverted nala has been proposed, nearing exhaustion of Quarry-NW , to free the blocked reserves. Proper scientific studies shall be done in this regard. The project proponent shall submit a Revised Mining Plan incorporating the liquidation program of the aforesaid reserves also.

You are requested to obtain no dues with respect to allocation conditions from Nominated Authority and submit the the same to this office for issuance of Approval letter of the Mining Plan and Mine Closure Plan.

Your Faithfully

18/03/2022

(ShantaGuha)

Deputy Assistant Coal Controller,

Coal Controller Organisation (A subordinate organization of MinistryofCoal)

Copy to:

1.Under Secretary,NA section,MoC

2.Under Secretary,NA section,MoC

Prepared By Awadhesh Kumar Sinha On 12/05/2022

Annexure-5

Annexure-V : Bar Chart showing schedule of implementation of Mine Closure activities(Progressive & Final closure period) with duration of important activities

Sl. No.		Head	Year
	Progressive closure		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
1		Water quality management	
2		Air quality management	
3		Waste Management	
4		Barbed wire fencing around dump	
5		Barbed wire fencing around the Pit	
6		Filling of Void	
7		Top Soil management	
8		Technical & Biological reclamation of Mined out land & OB dump plantation	
9		Plantation over virgin area including green belt	
10		Manpower Cost and supervision	
11		Toe Wall around the dump	
12		Garland drain	
13		Garland drain around the dump	
14		Any Other activity (Protective wall for embankment)	
	FINAL MINE CLOSURE		
1	Dismantling of Infrastructure & Disposal / rehabilitation of Mining machinery	Dismantling of workshop/CHP/Mine facilities etc	
2		Rehabilitation of the dismantled facilities	
3		Dismantling of pumps and Pipes / HEMM/P & M	
4		Dismantling of stowing bunkers, provisions for bore well pumping arrangement	
5		Dismantling of UG equipment	
6		Rearranging water pipelines to dump top park / Agricultural land	
7		Dismantling of Power lines	
8	Safety and security	Barbed wire fencing around dump	Already covered
9		Barbed wire fencing around pit	Already covered
10		Barbed wire fencing with masonary pillar	
11		Concrete wall with masonary pillar around the pit	
12		Securing air shaft and installation of borewell pumps	
13		Securing of Inclines	
14		Concrete wall fencing around the water body	
15		Boundary wall around the water body	
16		Stabilisation (viz benching, pitching etc) of side walls of the water body	
17		Toe Wall around the dump	Already covered
18		Garland drain	Already covered
19		Garland Drain around the dump	Already covered
20		Drainage Channel from main OB dump	
21	Technical & Biological Reclamation of Mined out area and OB Dump	Filling of Void	
22		Top Soil management	
23		OB rehandling for back filling	
24		Terresing, Blanketing with soil and vegetation for Ext. OB dump	
25		Peripheral road, gates, view point, cemented steps on bank	
26		Expenditure on development of Agriculture land	
27		Landscaping and Plantation	
28	Post Closure management and supervision	Power cost	
29		Post Mining Water quality management	
30		Post Mining Air quality management	
31		Subsidence monitoring for 5 years	
32		Waste Management	
33		Manpower Cost and supervision	
34	Others activities	Entrepreneurships development, vocational / skill development training for sustainable income of affected	
35		Golden Handshake / Retrenchment benefits to employees of OC	
36		Golden Handshake / Retrenchment benefits to employees of UG	
37		One time financial grant to Society / Institutions / Organisations which is dependent upon the project	
38		Provide jobs in other mines of the company	
39		Continuation of other services like running of schools etc.	

Prepared By Awadhesh Kumar Sinha On 12/05/2022

Annexure 6

bharatkosh.gov.in
Government of India Receipt Portal

RECEIPT

Transaction Ref.No. 1705220013029 Dated: May 17 2022 2:27PM

Received from M/S. PRAKASH with Transaction Ref.No. 1705220013029

Dated May 17 2022 2:27PM the sum of INR 233000 (Two Lakhs Thirty-Three Thousand Only) through Internet based Online payment in the account of

Coal and Lignite, , Application Fee for modification of Mining Plan 2nd Revision.

Disclaimer:- This is a system generated electronic receipt, hence no physical signature is required for the purpose of authentication

Printed On: 17-05-2022 04:20:19

Courtesy :- Controller General of Accounts

Prepared By Awadhesh Kumar Sinha On 12/05/2022

Annexure 7

TO WHOM IT MAY CONCERN

The Mining Plan & Mine Closure Plan of BHASKARPARA COAL MINE Coal Mine formulated by Qualified Person-Awadhesh Kumar Sinha, QCI Number- 005 which was sent for expert review to Mining Plan Preparing Agency-Matrix Mining Solution Private Limited, QCI Number-NABET/APA-MPPA/IA/005 .

The Mining Plan & Mine Closure Plan of BHASKARPARA COAL MINE Coal Mine has been review from Technical and administrative angle and has found to be prepared in line with the guideline for formulation, processing, scrutiny and approval of Mining Plan and Mine Closure Plan circulated vide OM dated 29th May 2020. The subject mining plan is found to be in order and is recommended for consideration of the Approving Authority for approval.

.

Digital Signature

Matrix Mining Solution Private Limited

502, Star Tower, Sector 30, Gurugram-122001

NABET/APA-MPPA/IA/005

9999310855

Prepared By Awadhesh Kumar Sinha On 12/05/2022

पंजीकृत

भारत सरकार
खान मंत्रालय
भारतीय खान ब्यूरो
क्षेत्रीय खान नियंत्रक का कार्यालय

संख्या: 682(24)(342)/2005- खनिखस(उ) उदय

सेक्टर नं.-11,हिरणमगरी
उदयपुर (राज.)-313002
दिनांक: 23 FEB 2016

प्रेषक: क्षेत्रीय खान नियंत्रक,
भारतीय खान ब्यूरो

प्रेषित: श्री ए. के. सिन्हा
B-31, वसुंधरा गार्डन, हरिहर सिंघ रोड,
बरिअतु, रांची-834009 झारखण्ड

विषय :-खनिज रियायत नियमावली, 1960 के नियम 22(सी) के अंतर्गत खनन योजना तैयार करने हेतु योग्य व्यक्ति के रूप में मान्यता का नवीनीकरण हेतु आपका आवेदन पत्र दिनांक 27.09.2015 |

महोदय,

आपके द्वारा वर्णित आवेदन के सन्दर्भ में आपको एतद्द्वारा सूचित किया जाता है कि :-

1. आपके द्वारा चाही गई मान्यता का नवीनीकरण किया जाता है तथा पंजीकरण संख्या RQP/COM(N)-UDP/306/2006/A धारित प्रमाण पत्र द्वारा आपको पूर्व में प्रदान की गई मान्यता को अगले दो वर्षो के लिए दिनांक 26.02.2018 तक नवीनीकृत किया जाता है | उक्त मूल प्रमाणपत्र संग्लन है |
2. आपको सुझाव दिया जाता है कि आप दिशानिर्देशों के अनुसार सभी प्रकार से पूर्ण स्तरीय खनन योजना/स्कीम तैयार करें तथा ऐसा करते समय मुख्य खान नियंत्रक द्वारा मान्यता प्राप्त व्यक्तियों को जारी किये गये सभी परिपत्रों एवं समय समय पर भेजे गये अनुदेशों को ध्यान में रखे | इसी क्रम में यह भी सुझाव दिया जाता है कि प्राधिकारियों को अंकित करने के उद्देश्य से खनन योजना/स्कीम में आप जानबूझ कर कोई भी असत्य सूचना नहीं दें | यह ध्यान रहे कि आपके ऐसे किसी कृत्य से आपको प्रदान की गई मान्यता वापस ली जा सकती है |
3. आपको यह सलाह भी दि जाती है की आर.क्यू.पी. प्रमाणपत्र के नवीनीकरण हेतु अपना आवेदन प्रमाणपत्र की वैधता तिथि से तीन माह पूर्व प्रस्तुत करे |
4. आपको निर्देशित किया जाता है कि मुख्य खान नियंत्रक, भारतीय खान ब्यूरो द्वारा जारी निर्देशानुसार प्रत्येक वित्तीय वर्ष में आपके द्वारा तैयार कर प्रस्तुत/ अनुमोदित/निरस्त/वापिस ली गई खनन योजना/स्कीम/पीएमसीपी एवं एफएमसीपी की एक वार्षिक विवरणी निर्धारित फॉर्म में अगले वित्तीय वर्ष की 01 जुलाई तक क्षेत्रीय खान नियंत्रक, भारतीय खान ब्यूरो, उदयपुर को प्रस्तुत करना सुनिश्चित किया जावे |
5. प्रत्येक वर्ष आयोजित आर.क्यू.पी. बैठक में भाग लेना भी सुनिश्चित किया जाये |
6. इस प्रमाणपत्र का लेमीनेशन नहीं करावें |

भवदीय

23/2/16
(ज. आर. चौधरी)
क्षेत्रीय खान नियंत्रक
भारतीय खान ब्यूरो

संलग्न: यथोपरी

प्रतिलिपि सूचनार्थ प्रेषित: 1. मुख्य खान नियंत्रक, भारतीय खान ब्यूरो, नागपुर |
2. खान नियंत्रक (उ.), भारतीय खान ब्यूरो, अजमेर |

11
क्षेत्रीय खान नियंत्रक
भारतीय खान ब्यूरो

सत्यमेव जयते

खनन योजना तैयार करने हेतु
योग्य व्यक्ति के रुप में
मान्यता का प्रमाणपत्र

(खनिज रियायत नियमावली, 1960 के नियम 22(सी) के अंतर्गत)

श्री ... अवधेश कुमार सिन्हा.....
वल्द स्वर्गीय डॉ.रावनेश्वर प्रसाद सिन्हा.....
निवासी लिग्नाइट प्रोजेक्ट, पनानथरो, लखपत, जिला कच्छ (गुज)---

द्वारा अपनी योग्यताओं और अनुभव का संतोषप्द प्रमाण प्रस्तुत करने के फलस्वरुप खनिज रियायत नियमावली, 1960 के नियम 22(सी) के अंतर्गत उन्हें एतद्द्वारा खनन योजना तैयार करने हेतु योग्य व्यक्ति के रुप में मान्यता प्रदान की जाती है.

उनका पंजीयन कमांक RQP/COM(N)-UDP/306/2006/A है.

यह मान्यता दिनांक 26.02.2016 को समाप्त होने वाली दस वर्षों की अवधि के लिये वैध है.

स्थान : अजमेर
दिनांक :27.02.2006

(वी.के.अरोरा)
खान नियंत्रक(उ)
भारतीय खान ब्यूरो
Controller of Mines (N/Z)
भारतीय खान ब्यूरो, अजमेर
Indian Bureau of Mines, Ajmer

दिनांक 26/02/2018 को नवीनीकृत
Renewed up to 26/02/2018

क्षेत्रीय खान नियन्त्रक
Regional Controller of Mines
भारतीय खान ब्यूरो, उदयपुर
Indian Bureau of Mines, UDAIPUR

BY SPEED POST

No. 34012/(1)/2011-CPAM
Government of India
Ministry of Coal

Shastri Bhawan
New Delhi the 28nd February, 2011

TO	SHRI A.K. SINHA, B-31, VASHUNDHARA GARDEN, HARIHAR SINGH ROAD, BAIRATU, RANCHI-834009 (JHARKHAND). (PH.0651-2551912, MOB:094303361771).

Subject	Grant of recognition as competent person to prepare Mining Plan for Coal/Lignite block.

Sir,

I am directed to refer to your letter No. Nil dated 03.01.2011 on the above mentioned subject and to convey approval of the Central Government to the grant of recognition in your favour as competent person to prepare Mining Plan (Coal/Lignite block) under Rule 22 © of Mineral Concession Rule, 1960 up to 10 years from the date of issue of this letter.

2. Your attention is also invited towards the decision of the Standing Committee that "additional area beyond the block boundary may be considered in a mining plan subject to the condition that proper justification is given in the mining plan, and that annexed area is non-coal bearing and does not infringe upon any already allotted or identified coal/lignite blocks".

Yours faithfully,

(L.S. JANOTI)
SECTION OFFICER

Copy to : NIC for including in the list of RQP in Ministry of Coal's Web Site.

BY SPEED POST

No. 34012/(1)/2011-CPAM
Government of India
Ministry of Coal

Shastri Bhawan
New Delhi the 28nd February, 2011

TO	SHRI A.K. SINHA, B-31, VASHUNDHARA GARDEN, HARIHAR SINGH ROAD, BAIRATU, RANCHI-834009 (JHARKHAND). (PH.0651-2551912, MOB:094303361771).

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2. Your attention is also invited towards the decision of the Standing Committee that "additional area beyond the block boundary may be considered in a mining plan subject to the condition that proper justification is given in the mining plan, and that annexed area is non-coal bearing and does not infringe upon any already allotted or identified coal/lignite blocks".

Yours faithfully,

(L.S. JANOTI)
SECTION OFFICER

Copy to : NIC for including in the list of RQP in Ministry of Coal's Web Site.

खान परीक्षा बोर्ड (धनबाद)
Board of (Coal) Mining Examination
धनबाद बी एस (कोल)
Regd. No. of Documents

2642

डी० जी० माइन्स २
D. G. M. S. Exam. 1

खान अधिनियम १९५२
THE MINES ACT, 1952

प्रथम वर्ग प्रबंधक सक्षमता प्रमाण-पत्र
(कोयला खान के प्रबंध हेतु
MANAGER'S FIRST CLASS CERTIFICATE OF COMPETENCY TO MANAGE A COAL MINE

(कोयला खान विनियम, १९५७ के अंतर्गत)
(Under the Coal Mines Regulations, 1957)

श्री ..... पिता का नाम .....
ग्राम ..... डाकघर ..... राज्य ..... का ..... पुत्र है,
विनियम १९ के अंतर्गत परीक्षा ..... से खनन अभियांत्रिकी में स्नातक। डिप्लोमा प्राप्त करने
पर एवं खनन खान सेवन, १९५७ के अधीन सक्षमता परीक्षा पास करने के पश्चात् खान, डलटरा प्रबंध - पत्र, दिनांक ..... अनुभव होने
प्रमाण द्वारा संतुष्ट किए जाने पर ..... निवासियों से स्नातक तथा इसके सम्बन्ध उपाधि धारी व्यक्तियों के लिए परीक्षा,
के लिए ..... को परीक्षा लिखित परीक्षा में उत्तीर्ण होने पर, धनबाद द्वारा कोयला खान के प्रबंध हेतु प्रथम वर्ग का खान
सक्षमता प्रमाण-पत्र प्रदान किया जाता है।

यह प्रमाण-पत्र पदोन्नति-पत्र लिखित होने वाला विभिन्न अधिकार ..... को छोड़ कर दिनांक ..... से लागू हो जो भी बाद का होगा यदि कि .....
से अवधि समाप्त नहीं।

Awadhesh Kumar Sinha ..... (Name)
of Village ..... Abhanda Tank ..... Thana ..... Laharia sarai .....
District ..... Darbhanga ..... State ..... Bihar .....
born on ..... 1st May, 1946 .....
son of ..... Ravaneshwar Prasad Sinha .....
possessing Degree/Diploma in Mining Engineering approved under
Regulation ..... from ..... Indian School of Mines, Dhanbad .....
having given proof to the satisfaction of the Board of Mining Examinations, set up under the Coal Mines Regulations, 1957, as to his age, medical fitness, good conduct, education and experience, and having passed the prescribed examination required for persons holding Degree in Mining Engineering or equivalent qualification, held at ..... Dhanbad ..... in December, 1977 ..... is hereby granted a MANAGER'S FIRST CLASS CERTIFICATE OF COMPETENCY to manage a coal mine.

This certificate is effective from the date on which his result was announced or the date on which he completed the specified experience, whichever is later, viz. 29.6.1978 ....., in his case.

RN Singh

सदस्य परीक्षा बोर्ड के सदस्य गण
Members of the Board of Mining Examinations.

हस्ताक्षरित एवं मुद्रांकित
Signed and Sealed
...4-5-... 19...

अध्यक्ष
खान परीक्षा बोर्ड
Chairman of the Board of Mining Examinations.

सचिव
SECRETARY
खान परीक्षा बोर्ड

Additional Annexure-9

Matrix Mining Solutions Pvt Ltd

Reference: MMSPL/MPPA/PIL/2022/517 Dated 17th May 2022

To

Shri A. K. Chaturvedi
Director, Corporate Affairs
Prakash Industries Limited
Srivan, Bijwasan,
New Delhi 11006

Subject: Review of Modified Mining Plan and Mine Closure Plan of Bhaskarpara Coal Mine (2nd Revision)

Dear sir

Modified Mining Plan and Mine Closure Plan of Bhaskarpara Coal Mine (Second Revision) has been reviewed from Technical and administrative angle and found to have been prepared in line with the guideline for formulation, processing, scrutiny and approval of Mining Plan and Mine Closure Plan circulated vide OM dated 29th May 2020. Mining plan is found to be in order and is recommended for consideration of the Approving Authority for approval.

With warm regards

Yours Sincerely

(M. K. Thapar)
Project Coordinator
Matrix Mining Solutions Private Limited
(QCI Accreditation Certificate No. NABET/APA-MPPA/0005)

Corporate Office:
STS - 502, 5th Floor
DLF Star Tower
Sector - 30, Gurgaon
Haryana - 122001

Registered Office:
Flat No. 1002, Tower - A1
World Spa East
Sector-30/41, Gurgaon
Haryana - 122001

Contact:
Tel:+91 124 4843595
Fax: +91 124 4843594
E-mail: info@matrixmining.in
Website : www.matrixmining.in

CIN: U14290HR2016PTC066084

Additional Annexure-10

Prakash Industries Limited

(MINING DIVISION)

ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007
A/9 Shatabdi Nagar, Behind Songanga Colony.
Seepat Road, Bilaspur 495006 (C.G.)
Tele. : 98930 – 51093 Fax : 07752 – 258480/612
Email : md_bsp@prakash.com

CIN - L27109HR1980PLC010724

Subject:- Para-wise compliance of observations made during the meeting of the Scrutiny Committee in respect of Bhaskarpara Coal Mines of M/s Prakash Industries Limited.

Application No. APP00208

Sl No. Para No	Parameters	Observation	Compliance
INPUT SHEET 6	a. Targeted capacity b. Peak Capacity (150% of the rated capacity)	Peak Capacity and rated capacity to be furnished.	Corrected
1.5.13	Blocked Reserve "Mt"	Blocked reserves have increased as compared to the earlier Mining Plan. To be explained.	There was an accounting error in the approved mining plan. Uneconomic reserves of Seam III and II was shown against these seams but mistakenly got omitted in the total. Blocked reserve has not increased compared to the earlier mining plan and extractable reserves remains unchanged.
1.5.25		There has been change in land use pattern (increase in excavation area, decrease in external dump and undisturbed area). This shall be explained	Terms of Reference (ToR) of the Environment Clearance issued by MoEFCC required the project proponent change the sequence on operation and avoid external dump on forest land. Present proposal for modification is an outcome of the conditions of the ToR. Undisturbed land has reduced and excavation area has increased because another quarry Q-C has been planned on the North-East end of the mine boundary to extract 0.21 Million tonne of coal form Seam IIC. This was earlier proposed for underground mine.In compliance to condition of ToR in reference to avoiding forest land for creating external dump, the area proposed earlier had to be reduced by increasing the height of internal dump in Q-NW. Earlier proposed height of +640 m has now been modified +670 m.

Con...2

Regd. Office : 15 Km Stone, Delhi Road Hissar – 125 044 (Haryana) INDIA
Corporate Office : Srivan, Najafgarh-Bijwasan Road, Bijwasan New Delhi-110061
Tel.: 25305800, 28062115, Fax. 91-11-28062119, **E-mail :** pilho@prakash.com Website: www.prakash.com

Prakash Industries Limited

(MINING DIVISION)

ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007
A/9 Shatabdi Nagar, Behind Songanga Colony,
Seepat Road, Bilaspur 495006 (C.G.)
Tele. : 98930 – 51093 Fax : 07752 – 268480/612
Email : md_bsp@prakash.com

CIN - L27109HR1980PLC010724

~~1.5.10~~ 1.1.3	Base date of Mining Plan Mine Closure Plan	Base date to be corrected	Base date has been taken as the date of issue of vesting order (18.11.2021). Although First Modification of the MP&MCP was approved in March 2022, activities in the mine didn't start. ToR issued for EC desired changes in the approved MP&MCP so modification has been undertaken in the present proposal. Extractable reserve, life of the mine etc have been quantified on the above said 'Base Date'.
1.5.5	Life of the Project "Yrs"	Life of the mine has decreased from the previously approved Mining Plan. To be explained.	Three changes have been brought in the schedule of coal production in the proposed mining plan so that mining activities in both the opencast mine and underground mine culminate simultaneously. Consequent upon following changes, the mine life has reduced to 25 years. 1. UG mining shall now commence in the 5th year instead of 8th year 2. The production planned in the 31st year was only 0.02million tonne. 3. Production scheduled of underground mine has been rationalised by proposing to produce 0.33 Mty during last three years instead of 0.24 Mty. Main dip headings would no longer be worked towards the end of the mine and machineries deployed there in could be shifted to depillaring panels for producing higher volumes of coal. 4. Production of 0.21 Mte of coal that was planned for extraction by UG mine in the approved mining plan will now be extracted by OC method.
2.2.9	Year wise future programme of exploration	Repetition of data to be corrected	Typographical error corrected.

Con...3

Prakash Industries Limited

(MINING DIVISION)

ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007
A/9 Shatabdi Nagar, Behind Songanga Colony,
Seepat Road, Bilaspur 495006 (C.G.)
Tele. : 98930 – 51093 Fax : 07752 – 258480/612
Email : md_bsp@prakash.com

CIN - L27109HR1980PLC010724

3.1.8	Rated Capacity "MTPA"	Tentative coal production for the Yr. 2044-45, Yr. 2045-46 and Yr. 2046-47 have exceeded the rated capacity. To be explained/ corrected.	Production scheduled of underground mine has been rationalised by proposing to produce 0.33 Mty during last three years instead of 0.24 Mty. It is considered that need for advancing development headings towards the end of mine life shall cease and the equipment engaged therein shall be re-deployed in depillaring operation Consequently, there is a feasibility of increased production.
8.1.2	Tentative Biological Reclamation (Cumulative in "Ha")	Table shall be completed/corrected	Corrected
8.10.1	Abandonment Cost: Cost of Activities to be taken up for closure of the mine	"Any other Activity" shall be elaborated	Typographical error corrected.
8.4	Waste Management (Figures in MM³) (Tentative)	Table to be completed/ corrected.	Corrected
8.5	Top Soil Management (Including Action plan for Top Soil management) (Tentative)	Table to be completed/ corrected.	Corrected

Con..4

Regd. Office : 15 Km Stone, Delhi Road Hissar – 125 044 (Haryana) INDIA
Corporate Office : Srivan, Najafgarh-Bijwasan Road, Bijwasan, New Delhi-110061
Tel.: 25305800, 28062115, Fax 91-11-28062119, E-mail : pilho@prakash.com, Website: www.prakash.com

Prakash Industries Limited

(MINING DIVISION)

ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007
A/9 Shatabdi Nagar, Behind Songanga Colony,
Seepat Road, Bilaspur 495006 (C.G.)
Tele. : 98930 – 51093 Fax : 07752 – 258480/612
Email : md_bsp@prakash.com

CIN - L27109HR1980PLC010724

9.2	undefined	a. Surface features, water bodies, Land outlines etc. outside the project area/ block area/ lease area and not a part of the Mining Plan shall be removed from the plans. b. What is the safety distance kept between block boundary and proposed quarries? c. What is the distance of the toe of the deck of the internal dump above the ground level from the block/ project boundary? d. There is no barrier between the two proposed quarries namely Q-NE quarry and Q-A. To be explained/corrected	a. Plans corrected. b. Safety distance between block boundary and boundaries of respective quarries have been kept at 7.5 m. c. Height of the internal dump from toe the deck above ground level of block / project boundary is up to 120 m. d. Following reasons are considered for not keeping barrier on the surface between two proposed quarries namely, Q-NE and Q-A: • No barrier is proposed on the surface but fault F_2-F_2 having a throw from 50 m to 80 m separates them. Seams in Q-NE is down-thrown. • Quarry floors are different. Seam IVB is the quarry floor in Q-NE whereas lower Seam IIT/C is the quarry floor in Q-A. • Q-NE quarry shall be exhausted in 8th year and fully backfilled in few years later. Operation in Q-A quarry shall commence in the 20th year.

Regd. Office : 15 Km Stone, Delhi Road Hissar -- 125 044 (Haryana) INDIA
Corporate Office : Srivan, Najafgarh-Bijwasan Road, Bijwasan, New Delhi-110061
Tel.: 25305800, 28062115, Fax 91-11-28062119, E-mail : pilho@prakash.com, Website: www.prakash.com

Additional Annexure-11

F No. IA-J-11015/90/2021-IA-II(M)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)
*****

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi – 3
Email: lk.bokolia@nic.in Tel: 01124695363

Dated: 31st January, 2022

To,

Director,
M/s Prakash Industries Limited
A/9 Shatabdi Nagar, Behind Songanga Colony,
Seepat Road, Bilaspur 495006 (Chhattisgarh)
Email: : md_bsp@prakash.com

Sub: Bhaskarapara Open cast cum Underground coal mine with production capacity of 1.0 MTPA within ML area of 932 ha by M/s Prakash Industries Ltd located at villages Ammakhokha and Dallabhahara, Tehsil Bhaiyathan, District Surajpur (Chhattisgarh) - For Terms of Reference-reg

Sir,

This has reference to your Online Proposal No. IA/CG/CMIN/241710/2021 dated 1st December, 2021, on the above-mentioned subject.

2. The Ministry of Environment, Forest and Climate Change has considered the proposal for grant of Terms of Reference to Bhaskarapara Open cast cum Underground coal mine with production capacity of 1.0 MTPA within ML area of 932 ha by M/s Prakash Industries Ltd located at villages Ammakhokha and Dallabhahara, Tehsil Bhaiyathan, District Surajpur (Chhattisgarh).

3. The proposal was considered by the sectoral Expert Appraisal Committee (EAC) in the Ministry in its 24th EAC meeting held on 30th December, 2021 through Video Conferencing. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under: -

(i) The project area is covered under Survey of India Topo Sheet No: F44E11 & F44E15 (64 I/11 & 64 I/15) and is bounded by the geographical coordinates. The geographical co-ordinates lies between latitude 23 ° 20'50. to 23 ° 22'30. N & longitude 82° 45'00. to 82° 48'50. E.
(ii) New mine with a rated capacity of 1.0 MTPA (Open cast cum Underground) spread over an area of 932 ha.
(iii) The project site does not fall in the Critically Polluted Area (CPA), where MoEF&CC has imposed moratorium on grant of environment clearance vide its OM dated 13th January, 2010.

Prepared By Awadhesh Kumar Sinha On 12/05/2022

(iv) The project will provide total employment of 479 (Direct Employment – 79; Indirect Employment – 400)

(v) The project will improve the socio-economic status of the society in the region by generating direct and indirect employment opportunities. The project will contribute additional revenue to the State & Central exchequers in the form of taxes, cess, etc

(vi) Total mining lease area as per block allotment is 932 ha. Draft mining plan submitted to MOC, observations made by Ministry of Coal (MoC) on the proposed modified plan were compiled and presentation before Internal Committee of MoC was made on 3.1.2022. and process in progress

(vii) Mine has been allocated by Ministry of Coal, Government of India to M/s Prakash Industries Limited vide Vesting order No. NA-104/5/2021-NA dated 18.11.2021 as a successful bidder under clause (b) of sub-rule (2) of rule 7 and sub-rule (1) of rule 13 of the Coal Mines (Special Provisions) Rules 2014 read with clause (b) of sub-section (3) of Section 6 and sub-section (3) of Section 8 of the Coal Mines (Special Provisions).

(viii) The land usage pattern of the project is as follows:

Pre-mining land use details (Area in ha)

Sr. No.	Quarry/Dump	Govt. Land	Forest Land		Pvt. Land	Total
			Revenue	Protected		
1	Q-NW	3.060	47.416	63.490	6.790	120.756
2	Q-NE	1.680	23.678	0	41.162	66.52
3	Q-A	10.107	61.137	0	108.756	180
4	Q-B	4.250	13.120	0.330	61.540	79.24
5	External Dump	0	65.766	28.480	0.810	95.056
6	Nalla Diversion	0	0.000	1.940	0.000	1.94
7	Road Diversion	0	0.828	0	0.422	1.25
8	Mine Infra	2.20	1.620	0	2.443	6.263
9	Settling Pond	0	1.120	0	0	1.12
10	Safety Zone	1.371	4.871	4.184	2.900	13.326
11	Barrier & Others Area	0.119	3.217	1.219	0.929	5.484
12	Underground	19.302	144.013	49.152	148.578	361.045
Total (ha)		42.089	366.786	148.795	374.330	932.000

**Units in ha*

Land Use Details During Mining (Area in ha)

Sr.No.	Land use during Mining	**Land Use (Ha)**				
		Plantation	Water body	Public use	Undisturbed	Total
1	External OB dump	95.05	-	-	-	95.05
2	Excavation	368.55	77.97		-	446.52
3	Roads / Nala	-	-	3.19	-	3.19
4	Built up areas	-	-	6.29	-	6.29
5	Greenbelt	-	-	1.12	-	1.12

6	Safety zone	-	-	-	13.33	13.33
7	Undisturbed area	-	-	-	366.50	366.50

Post Mining Land Use Details (Area in ha)

Sr. No.	Type	Total Area	Reclaimed Area	Un-Reclaimed Area
1	Internal OB dump	446.52	446.52	-
a	Backfilled Areas	368.55	368.55	-
b	Excavated Void	77.97		77.97
2	External dump	95.05	95.05	-
3	Safety Zone	13.33	-	13.33
4	Road and infrastructure	10.60	-	10.60
5	Others	366.50	-	366.50

(ix) Total geological reserves are about 46.91 Million tonnes with a mineable reserves of 33.62 million tonnes and extractable reserves of 24.17 ha. And the percentage of extraction is 72% (OC-91% & UG 24%).

(x) 5 seams with thickness ranging from 0.9 m to 4.1 m are workable. Grade of coal is G7, stripping ratio 1:8.41 (Avg), while gradient is 2 to 3 degrees in southern / western central part and 9-10 degrees in Eastern and Central part.

(xi) Method of mining - Opencast Mine – With Shovel dumper combination and Underground Mine – With LHD conveyor combination.

(xii) Life of mine is 31 years

(xiii) The project has an external OB dump over an area of 95.05 ha with 90 m height accommodating 50.39 Mcm of OB. All the four quarries shall have internal dumpsin respective areas: 120.756 ha, 66.52 ha, 180.00 ha, 79.24 ha with height of each dump as 90 m and total quantity of OB in the internal dump filled shall be 107.38 (Mcum).

(xiv) Total quarry area: 446.516 ha and backfilled quarry area of 368.52 ha will be reclaimed with plantation. A void of 77.97 ha at a depth of 110 m which is proposed to be converted into a water body. And transportation of coal - In pit: 18.77 Mt, surface to siding: 5.40 Mt, siding at loading: 5.40 Mt and quantity transported by Road/rail will be about 24.17 Mt.

(xv) Reclamation Plan in an area of 476.93 ha, comprising of 95.05 ha of external dump, 368.55 ha of internal dump and 13.33 ha of green belt.

(xvi) Total forest area is 515.581 ha. Break up of Forest Diversion is shown in Table above. Online application filed with Forest department for Stage-I forest Clearance on 26th November, 2021 vide proposal no: FP/CG/MIN/149564/2021.

(xvii) There are no national parks, wild life sanctuaries and eco-sensitive zones in 10 km study area.

(xviii) Total water requirement for the project is 490 kLD which will be sourced from met from the borewells initially and in later stages from harvested water from the pits.

(xix) Application for obtaining the approval of the Central Ground Water Authority has been submitted and in progress.

(xx) Water bodies: Manik Nala (within ML Area), Tank Near Chhemuhani (0.3 km, ESE), Kuluha Nala (2.2 km, SW), Gobri Nala (2.9 km, ESE, Bargi/Burhi Nala (5.9 km, NW), Rehar River

(6.3 km, E), Injani Nala (6.7 km, ENE), Ghokhanai Nadi/River (10.1 km, NNW). Manik nala will be diversted.

(xxi) Baseline environment monitoring is under progress for a period of post monsoon season 2021 covering the period: 1st October 2021 to 31st December, 2021.

(xxii) Any Court case or violation case is not pending against the project.

(xxiii) The estimated cost of the proposed project is about Rs. 284 crores.Average Mine closure cost is Rs. 307 Lakh per year with a recurring cost of Rs. 100 Lakhs per year. Cost on CSR and R&R will be determined after completing Socio Economic Impact Assessment (due to the presence of 7 villages within lease area – Badsara, Bhaskarpara, Kurridih, Khandapara, Dhanauli, Kevara and Kusmusi).

4. The Expert Appraisal Committee in its 24th EAC meeting held on 30th December, 2021, through Video Conferencing has recommended the proposal for grant of Terms of References (ToR). Based on the recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby grants approval to the Terms of References for Bhaskarapara Open cast cum Underground coal mine with production capacity of 1.0 MTPA within ML area of 932 ha by M/s Prakash Industries Ltd located at villages Ammakhokha and Dallabhahara, Tehsil Bhaiyathan, District Surajpur (Chhattisgarh), for preparation of EIA/EMP reports with public consultations, under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto, subject to the compliance of the following terms and conditions as specified/notified in the standard ToR along with the additional conditions as under:-

Specific condition

(i) Public Consultation, shall be conducted through concerned SPCB as per the provisions/procedure contained in the EIA Notification, 2006 for information of the stakeholders about the present coal mining operations inviting comments and their redressal. All the issues outstretched and PP reply should be incorporated in EIA along with its time bound action plan and budgetary provision. Also the issue raised in public hearing held during 2011 should also be addressed with time line action plan and budgetary provision in EIA/EMP report

(ii) PP to seek permission for stream diversion from the competent authority after 5 year from the day of mine commencement and mine plan shall be drawn accordingly.

(iii) No forest land shall be used for OB dump towards North west side of mine.

(iv) PP shall prepare the Mining Plan in such a manner that condition prescribed by EAC shall intact from environment point of view. EIA-EMP shall accordingly be prepared on the suggested stipulation with point-wise compliance & in accordance with recommendations of Mining Plan.

(v) PP may revise Mine Plan, if required to commence mining from Q-NE side and then start mining operations in Q-NW to avoid initial and deforestation.

(vi) PP shall submit letter from PCCF that mine does not fall under corridors of any National Park and Wildlife Sanctuary and does not involve any violation of forest area and wild sanctuary with certified map showing distance of nearest sanctuary.

(vii) Stage-I Forest Clearance for diversion for non-forestry activity shall be submitted.

(viii) PP to evaluate the green house emission gases from the mine operation and corresponding carbon absorption plan.

(ix) PP should submit the real time aerial footage and video of the Mining lease area made through drone with a special focus on the area adjacent to the rivers.

(x) PP shall prepare a Plan for implementation of Continuous Automatic Air Quality Monitoring Station (CAAQMS) at mine site or its vicinity.

(xi) Permission for ground water withdrawal shall be obtained from Central Ground Water Authority (CGWA).

(xii) Three Tier Green belt developments all along the boundary of the lease, haul road and in the suitable area with time bound action plan in EIA/EMP report.

(xiii) PP to prepare water augmentation plan with its budgetary provision in respect to the water withdrawal in nearby location and PP shall propose to develop two water harvesting pond

(xiv) PP should submit the complete water balance cycle, in addition to this PP should submit a detailed plan for rain water harvesting measures to be taken. The PP should submit the year wise target for reduction in consumption of the ground water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.

(xv) PP shall explore the possibilities of utilization of OB material for different purposes (in construction of roads/ manufacture of artificial sand, aggregates/ use for farmers etc.) and accordingly Plan shall be included in EIA/EMP Report.

(xvi) Permission from the respective NHAI is mandatory for any diversion of road like SH-12 as proposed by PP and a approved DPR in this regard to be furnished with time bound action plan in order to prior facilitate with alternate highway or road to minimize the incontinences for the travelers.

Monitoring

(xvii) In addition to existing data already collected (if any), PP to carry out source apportion study of polluting units in buffer zone of mines w.r.t ecosystem services and biodiversity of the area. PP shall collect one season baseline data of all environmental parameters and shall compare with the data of earlier data collected for cumulative assessment of area.

(xviii) Air pollution impact predication shall be conducted by considering the maximum values

(xix) Wind rose pattern in the area should be reviewed and accordingly location of AAQMS shall be planned by the collection of air quality data. Monitoring location for collecting baseline data should cover overall the 10 km buffer zone i.e. dispersed in 10 km buffer area.

(xx) Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted

(xxi) The impact of mine operation on the river bodies flowing within the boundary of the mine with its mitigation measures adopted should be clearly spell in the EIA/EMP report with flood plain protection measures.

(xxii) Heavy metals including other parameters in surface water quality shall be analyzed and provided in EIA Report. Further, detailed mineralogical and chemical composition of the mineral and percentage of free silica in Air quality and other parameters Arsenic, Lead shall also be analyzed in ambient air quality & to be furnished in EIA/EMP report

(xxiii) The PP while carrying out base line monitoring should submit the photograph of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should also submit the original Lab reports of air, water, soil and noise quality and NABL/MoEF&CC certificates of the respective laboratory.

(xxiv) PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs.

(xxv) A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.

(xxvi) The socio-economic study to conducted with actual survey report and a comparative assessment to be provided from the census data of 2011-part B to be provided in EIA/ EMP report also economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data of 2011 part A to be provided and to link it with the initialization and quantification of need based survey for CSR activities to be followed.

(xxvii) The Ecology and biodiversity study should also indicate the likely impact of change in forest area for surface infrastructural development or mining activity in relation to the climate change of that area and what will be the compensatory measure to be adopted by PP to minimize the impact of forest diversion.

(xxviii)Study on subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out and should be furnished with risk assessment and prediction analysis in EIA/EMP report Infrastructure & Mine Management

Infrastructure & Mine Management

(xxix) Details of Land use quarry wise – for OC and UG should be presented separately for the various activities and where ever it is combined it should be specifically indicated with progressive time line of excavation.

(xxx) Forest diversion shall be only proposed for coal bearing areas and no OB dump, non-essential infrastructure, office or workshop shall be planned in forest area.

(xxxi) Inpit conveyor belt with silo loading should be proposed and installed for transportation of coal till railway siding. No transportation of coal by trucks/dumpers shall be proposed in EIA/EMP.

(xxxii) PP shall submit detailed project report for implementation of railway siding for evacuation of coal with its target date of completion. Target date should be such that railway siding should be operational within 3 years of commissioning of mine operations. Forest Clearance shall be submitted if railway siding land comes under forest land.

(xxxiii)PP shall provide the details of mining technology/methodology proposed to be adopted for coal mining operations and its associated environmental benefits of using from Climate

Change perspective by i.e. the likely emissions of greenhouse gases from the mining operations to be estimated with the modelling for future prediction related to the climate of that study area

(xxxiv)PP should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total excavation & mineral) and steps to be taken for reduction of the same. Year-wise target for reduction in the specific diesel consumption needs to be submitted.

(xxxv) PP shall provide provision of integrated mine plan and mine reclamation cum land form / land scape plan for both underground and open cast coal mining projects. The plan must show the predicted post mining reclaimed and reformed surface by regarding and reshaping to reduce its height as close to the original surface level and proper sloping benching and terracing of external dup should be clearly brought out in the post mine closure plan. This would also include water management strategies such as surface water catchment and drainage paths etc. of post mining land surface. The final mine void shall be reduced and brought as near as ground so that land can be restored and reclaimed.

(xxxvi)Details of toe wall and garland drain to be constructed along the OB dump.

(xxxvii) Reclamation to be done using geo-texturing technique of the dumps close to habitation and a cause of visual intrusion. Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.

(xxxviii) PP should bring out the awareness campaign to be carried out on various Environmental issues, practical training facility to be provided to the environmental engineer/diploma holders, mining engineer/diploma holders, geologists, and other trades related to mining operations. Target for the same needs to be submitted.

(xxxix)Details of Fog mist sprayer (static water sprinklers) at coal stock yard and along the permanent haul road.

(xl) PP shall propose to use LNG/CNG based mining machineries and trucks for mining operation and transportation of coal.

(xli) No trucks or vehicles used for transportation of Coal to be passed by village roads or roads located near to the villages. PP shall develop a pucca haul raod for transportation of coal proper widening considering its carrying capacity, lightening and three tire plantation along the haul road. Details of black topping of permanent haul roads to be furnished in EIA /EMP report with its measurement and budgetary provision.

Other

(xlii) The environmental sensitivity mentioning not only about the surface water bodies, Forest areas, Inter -state or country boundary etc but also the nearby other mines, coal washery, power plants and other industries etc located within the 10 km radius buffer zone present with its distance and direction from the periphery of the project boundary must be furnished in EIA/EMP report.

(xliii)Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report

(xliv)Detailed Social Impact Assessment shall be prepared in villages for Rehabilitation and Resettlement. R &R Activity shall be proposed with timeline and allotted fund with the approval of District Commissioner/collector. PP shall be submitting R &R in respect of SCs

/STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programs prepared and submitted accordingly, integrating the sectoral programs of line departments of the State Government.

4.1. This grant of Terms of References(ToR) for the said project is further subject to the general conditions as under:-

(i) All documents should be properly indexed, page numbered.
(ii) Period/date of data collection should be clearly indicated.
(iii) Authenticated English translation of all material provided in Regional languages.
(iv) After the preparation of the draft EIA-EMP Report as per the aforesaid TOR, the proponent shall get the Public Hearing conducted as prescribed in the EIA Notification 2006 and take necessary action for obtaining environmental clearance under the provisions of the EIA Notification 2006.
(v) The letter/application for EC should quote the Ministry's file No. and also attach a copy of the letter prescribing the ToR.
(vi) The copy of the letter received from the Ministry on the ToR prescribed for the project should be attached as an annexure to the final EIA-EMP Report.
(vii) General Instructions for the preparation and presentation before the EAC of ToR/EC projects of Coal Sector should be incorporated/followed.
(viii) The aforesaid ToR has a validity of **Four** years only.
(ix) Grant of ToR does not necessarily mean grant of EC.
(x) Grant of ToR to the present project does not necessarily mean grant of TOR/EC to the captive/linked project.
(xi) Grant of ToR to the present project does not necessarily mean grant of approvals under the Forest (Conservation) Act, 1980 or the Wildlife (Protection) Act, 1972.
(xii) Grant of EC is also subject to circulars issued under the EIA Notification 2006, which are available on the Ministry's website: www.envfor.nic.in

5. Standard ToR: The EIA/EMP report should contain the information in accordance with provisions & stipulations as given in the standard ToR for Opencast/ Underground coal mine projects (please visit the following link to download the Standard ToR: *http://environmentclearance.nic.in/writereaddata/standardtorreference.pdf*

6. You are required to submit the final EIA/EMP prepared as per TORs to the Ministry within 4 years as per this Ministry's Notification vide S.O 751 (E) dated 17th February, 2020 for considering the proposal for environmental clearance.

7. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other organization(s)/laboratories including their status of approvals etc. vide Notification of the MoEF dated 19th July, 2013.

This issue with approval of Competent Authority

(Lalit Bokolia)
Director

Copy to: -

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. IFS (Addl. Charge), Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19 Naya Raipur, Atal Nagar, Chhattisgarh - 492002
3. Chairman, Chhattisgarh Environment Conservation Board, Commercial Complex, C.G. Housing Board Colony, Kabir Nagar, District Raipur, (Chhattisgarh)
4. District Collector, Raipur, Chhattisgarh
5. Monitoring File/Guard File/Record File.
6. PARIVESH Portal

(Lalit Bokolia)
Director

A. Generic TOR for an opencast / UG coalmine project

(i) An EIA-EMP Report should be prepared for a peak capacity of …… **MTPA** over an area of …… ha addressing the impacts of the underground coalmine project including the aspects of mineral transportation and issues of impacts on hydrogeology, plan for conservation of flora/fauna and afforestation/plantation programme based on the generic structure specified in Appendix III of the EIA Notification 2006. Baseline data collection can be for any season except monsoon.

(ii) The EIA-EMP report should also cover the impacts and management plan for the project specific activities on the environment of the region, and the environmental quality – air, water, land, biotic community, etc. through collection of baseline data and information, generation of baseline data on impacts for ……. MTPA of coal production based on approval of project/Mining Plan.

(iii) A Study area map of the core zone and 10km area of the buffer zone (15 km of the buffer zone in case of ecologically sensitive areas) delineating the major topographical features such as the land use, drainage, locations of habitats, major construction including railways, roads, pipelines, major industries/mines and other polluting sources, which shall also indicate the migratory corridors of fauna, if any and the areas where endangered fauna and plants of medicinal and economic importance are found in the area.

(iv) Map showing the core zone along with 3-5 km of the buffer zone) delineating the agricultural land (irrigated and unirrigated, uncultivable land (as defined in the revenue records), forest areas (as per records) and grazing land and wasteland and water bodies.

(v) Contour map at 3m interval along with Site plan of the mine (lease/project area with about 3-5 km of the buffer zone) showing the various surface structures such as buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within/adjacent to the ML), green belt and undisturbed area and if any existing roads, drains/natural water bodies are to be left undisturbed along with details of natural drainage adjoining the lease/project and modification of thereof in terms of construction of embankments/bunds, proposed diversion/rechannelling of the water courses, etc., highways, passing through the lease/project area.

(vi) Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area. Impacts of project, if any on the landuse, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations. Extent of area under surface rights and under mining rights.

S.N.	ML/Project Land use	Area under Surface Rights (ha)	Area Under Mining Rights (ha)	Area under Both (ha)
1.	Agricultural land			
2.	Forest Land			
3.	Grazing Land			
4.	Settlements			
5.	Others (specify)			

Area Under Surface Rights

S.N.	Details	Area (ha)	Forest Land	Agr. land	Wasteland	Settle ments	Other s
1.	Buildings						
2.	Infrastructure						
3.	Roads						
4.	Others (specify)						
	TOTAL						

(vii) Study on the existing flora and fauna in the study area carried out by an institution of relevant discipline and the list of flora and fauna duly authenticated separately for the core and buffer zone and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna. The flora and fauna details should be furnished separately for the core zone and buffer zone. The report and the list should be authenticated by the concerned institution carrying out the study and the names of the species scientific and common names) along with the classification under the Wild Life Protection Act, 1972 should be furnished.

(viii) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working plan/scheme until end of mine life should be reflected on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps should also be included.

(ix) Impact of mining on hydrology, modification of natural drainage, diversion and channelling of the existing rivers/water courses flowing though the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.

(x) Collection of one-season (non-monsoon) primary baseline data on environmental quality – air (PM_{10}, $PM_{2.5}$, SO_x, NO_x and heavy metals such as Hg, Pb, Cr, AS, etc), noise, water (surface and groundwater), soil along with one-season met data.

(xi) Map of the study area (core and buffer zone) clearly delineating the location of various monitoring stations (air/water/soil and noise – each shown separately) superimposed with location of habitats, wind roses, other industries/mines, polluting sources. The number and location of the stations should be selected on the basis of the proposed impacts in the downwind/downstream/groundwater regime. One station should be in the upwind/upstream/non-impact non-polluting area as a control station. Wind roses to determine air pollutant dispersion and impacts thereof shall be determined. Monitoring should be as per CPCB guidelines and standards for air, water, noise notified under Environment Protection Rules. Parameters for water testing for both ground and surface water should be as per ISI standards and CPCB classification of surface water wherever applicable.

(xii) Impact of mining and water abstraction and mine water discharge in mine on the hydrogeology and groundwater regime within the core zone and 10km buffer zone including long–term modelling studies on the impact of mining on the groundwater regime. Details of rainwater harvesting and measures for recharge of groundwater should be reflected wherever the areas are declared dark/grey from groundwater development.

(xiii) Study on subsidence, measures for mitigation/prevention of subsidence, modelling subsidence prediction and its use during mine operation, safety issues.

(xiv) Detailed water balance should be provided. The breakup of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the competent authority in the State Govt. and impacts vis-à-vis the competing users should be provided.

(xv) Impact of choice of mining method, technology, selected use of machinery - and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations.

(xvi) Impacts of mineral transportation – within and outside the lease/project. The entire sequence of mineral production, transportation, handling, transfer and storage of mineral and waste, and their impacts on air quality should be shown in a flow chart with the specific points where fugitive emissions can arise and the specific pollution control/mitigative measures proposed to be put in place. Examine the adequacy of roads existing in the area and if new roads are proposed, the impact of their construction and use particularly if forestland is used.

(xvii) Details of various facilities to be provided in terms of parking, rest areas, canteen, and effluents/pollution load from these activities. Examine whether existing roads are adequate to take care of the additional load of mineral and their impacts.

(xviii) Examine the number and efficiency of mobile/static water sprinkling system along the main mineral transportation road within the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality.

(xix) Impacts of CHP, if any on air and water quality. A flow chart of water use and whether the unit can be made a zero-discharge unit.

(xx) Conceptual Final Mine Closure Plan along with the fund requirement for the detailed activities proposed there under. Impacts of change in land use for mining operations and whether the land can be restored for agricultural use post mining.

Table 1 Stage-wise Cumulative Plantation

S.N	YEAR*	Green Belt		External Dump		Backfilled Area		Others (Undisturbed Area / etc)		TOTAL	
		Area (ha)	No. of trees	Area (ha)	No. of Trees	Area (ha)	No. of Trees	Area (ha)	No. of Trees	Area (ha)	No. of Trees
1.	1st year										
2.	3rd year										
3.	5th year										
4.	10th yr										
5.	15th yr										
6.	20th yr										
7.	25th yr										
8.	30th yr										
9.	34th year (end of										

	mine life)										
10	34-37th Year (Post-mining)										

*As a representative example

(xxi) Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be furnished.

(xxii) Details of cost of EMP (capital and recurring) in the project cost and for final mine closure plan. The specific costs (capital and recurring) of each pollution control/mitigative measures proposed in the project until end of mine life and a statement that this is included in the project cost.

(xxiii) Integrating in the Env. Management Plan with measures for minimising use of natural resources – water, land, energy, raw materials/mineral, etc.

(xxiv) R&R: Detailed project specific R&R Plan with data on the existing socio-economic status (including tribals, SC/ST) of the population in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan.

(xxv) CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project.

(xxvi) **Public Hearing should cover the details as specified in the EIA Notification 2006**, and include notices issued in the newspaper, proceedings/minutes of public hearing, the points raised by the general public and commitments by the proponent made should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.

(xxvii) Status of any litigations/ court cases filed/pending in any Court/Tribunal on the project should be furnished.

(xxxvi) Submission of sample test analysis of: Characteristics of coal - this includes grade of coal and other characteristics – ash, S and heavy metals including levels of Hg, As, Pb, Cr etc.

(xxxviii) Copy of clearances/approvals – such as Forestry clearances, Mining Plan Approval, NOC from Flood and Irrigation Dept. (if req.), etc.

(A) Forestry Clearance

Total ML / /Project Area (ha)	Total Forest Land (ha)	Date of FC	Extent of forest land	Balance area for which FC is yet to be obtained	Status of appl. for diversion of forestland
		If more than one, provide details of each FC			

(B) Mining Plan / Project Approval: Date of Approval of Mining Plan/Project Approval: Copy of Letter of Approval of Mining Plan/Project Approval

(xxxviii) Corporate Environment Responsibility:

a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

Additional Annexure-12

Prakash Industries Limited

(MINING DIVISION)

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CIN - L27109HR1980PLC010724

UNDERTAKING

I Ashok Kumar Chaturvedi, S/o Late Raghunandan Lal Chaturvedi, aged 65 years, Director (Corp. Affairs) & authorized signatory of M/s Prakash Industries Limited, resident of C-54/55, Phase-I, Ramagreen City, Bilaspur, Chhattisgarh-495006, here by solemnly affirm and declared as under:-

"That the Bhaskarpara Coal mines shall be operated as per the Environment Clearances (EC) & Forestry Clearances (FC)".

For Prakash Industries Ltd.

(A.K.Chaturvedi)
Director (Corporate Affairs)

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Corporate Office : Srivan, Najafgarh-Bijwasan Road, Bijwasan, New Delhi-110061
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Additional Annexure-13

Prakash Industries Limited

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Para-wise compliance with observations made during the meeting of Internal Committee constituted under MMDR Act 1957 for approval of Mining Plan / Mine Closure Plan was held on 19/07/2022 through Video Conference (VC) to consider Mining Plan and Mine Closure Plan for BHASKARPARA COAL MINE of M/s PRAKASH INDUSTRIES LIMITED:

1 Para 1.1.3: Base date has been corrected to 12th May 2022.

2 Para 3.1.8: Tentative coal production has been corrected. Consequently, life of the mine and escrow calculation have been updated.

Revised coal production plan			
Year	**Total Coal**	**OC Coal**	**UG Coal**
1	0.20	0.20	
2	0.75	0.75	
3	1.00	1.00	
4	1.00	1.00	
5	1.00	0.90	0.10
6	1.00	0.76	0.24
7	1.00	0.76	0.24
8	1.00	0.76	0.24
9	1.00	0.76	0.24
10	1.00	0.76	0.24
11	1.00	0.76	0.24
12	1.00	0.76	0.24
13	1.00	0.76	0.24
14	1.00	0.76	0.24
15	1.00	0.76	0.24
16	1.00	0.76	0.24
17	1.00	0.76	0.24
18	1.00	0.76	0.24
19	1.00	0.76	0.24
20	1.00	0.76	0.24
21	1.00	0.76	0.24
22	1.00	0.76	0.24
23	1.00	0.76	0.24
24	1.00	0.76	0.24
25	1.00	0.67	0.33
26	0.22		0.22
Total	**24.17**	**18.96**	**5.21**

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3 Copy of ToR has been uploaded.

4 There is no coal left un projectised in the batter between Quarry NE and Quarry A. These two quarries, namely, Q-NE and Q-A, are separated by an up throw fault where throw is more than 80 m. Q-A is on the up thrown side of the fault. Further, respective quarry floors are in different seams. Seam IVB is the quarry floor in quarry NE whereas underlying Seam IIT/C is the quarry floor in Quarry A. Sequence of operation is such that Q-NW shall be exhausted and backfilled before commencement of mining operations in Q-A.

5 Undertaking, as desired, has been uploaded.

Note : Point No. 5 & 6 are same in the MoM.

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Additional Annexure-14

Prakash Industries Limited

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Subject :- Para-wise compliance with observations made during the meeting of Internal Committee constituted under MMDR Act 1957 for approval of Mining Plan / Mine Closure Plan was held on 04/08/2022 through Video Conference (VC) to consider Mining Plan and Mine Closure Plan for BHASKARPARA COAL MINE of M/s PRAKASH INDUSTRIES LIMITED:

1 ***The provisions of Reg 108 (5) shall be complied (also for the deck of internal dump above the ground level). Necessary changes in the Plans shall be made. ((Note : The issue of correction of table was pointed out by IC earlier also, refer Para 9.2 (b) Annexure-10)).***

Complied.

2 ***A. Annexure 5: Barchart showing schedule of implementation of mine closure activities***
(a)Waste management as a closure activity has been shown from the first year itself
(b)"Filling of void" has been shown from the first year itself.

Complied.

B. Table 8.10.1:
(a) Waste management under progressive mine closure has been shown as 303.27 MM³.
(b)"Filling of void" has been shown from the first year itself.

Complied.

8.10.1 Abandonment Cost: Cost of Activities to be taken up for closure of the mine						
Sl. No.	**Head**	**Activities**	**Unit**	**Quantity**	**Rate Rs / Unit**	**Amount "Rs. Crs"**
Progressive closure						
1	Progressive closure	Water quality management	LS	28	500000	1.400
2		Air quality management	LS	28	500000	1.400
3		Waste Management	Ha	312.796	30000	0.938
4		Barbed wire fencing around dump	m	4924	700	0.345
5		Barbed wire fencing around the Pit	m	524.94	700	0.037
6		Filling of Void - Rehandling of Crown Dump	MM^3	112.41	7200000	80.935
7		Top Soil management	MM^3	5.25	9000000	4.725
8		Technical & Biological reclamation of Mines out land & OB dump plantation	Ha	465.74	200000	9.315
9		Plantation over virgin area including green belt	Ha	24.27	250000	0.607
10		Manpower Cost and supervision	month	220	70000	1.540
11		Toe Wall around the dump	m	4924	1500	0.739

Cont..2..

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12		Garland drain	m	5265.21	200	0.105
13		Garland drain around the dump	m	4924	200	0.098
14		Any other activity (Protective wall for embankment)	m	200.00	20000	0.400
Sub Total						**102.584**
FINAL MINE CLOSURE						
1	Dismantling of Infrastructure & Disposal / rehabilitation of Mining machinery	Dismantling of workshop	LS	2000	500	0.100
2		Rehabilitation of the dismantled facilities	LS	1	1500000	0.150
3		Dismantling of pumps and Pipes / other facilitates	LS	750	450	0.034
4		Dismantling of stowing bunkers, provisions for bore well pumping arrangement	LS	2	1500000	0.300
5		Dismantling of UG equipment	LS	1	2000000	0.200
6		Rearranging water pipelines to dump top park / Agricultural land	LS	1	1500000	0.150
7		Dismantling of Power lines	LS	0	0	0.000
8	Safety and security	Barbed wire fencing around dump	m	Already Covered		
9		Barbed wire fencing around pit	m	Already Covered		
10		Barbed wire fencing with masonry pillar	m	199800	150	2.997
11		Concrete wall with masonry pillar around the pit	m	-	-	
12		Securing air shaft and installation of bore well pumps	LS	1	1100000	0.110
13		Securing of inclines	LS	2	1100000	0.220
14		Concrete wall fencing around the water body	m	6000	750	0.450
15		Boundary wall around the water body	m	6000	1200	0.720
16		Stabilisation (viz benching, pitching etc) of side walls of the water body	LS	2	15000000	3.000
17		Toe Wall around the dump	LS		-	
18		Garland drain	LS	Already Covered		
19		Garland Drain around the dump	LS	-	-	-
20		Drainage Channel from main OB dump	LS	-	-	
21	Technical & Biological Reclamation of Mined out area and OB Dump	Filling of Void	MM^3	-	-	
22		Top Soil management	MM^3	1.06	20000000	2.120
23		OB rehandling for back filling	MM^3	-	-	
24		Terracing, Blanketing with soil and vegetation for Ext. OB dump	Ha	95.87	200000	1.917

Cont..3..

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25		Peripheral road, gates, view point, cemented steps on bank	LS	1	1500000	0.150
26		Expenditure on development of Agriculture land	LS			0.000
27		Landscaping and Plantation	LS	1	2000000	0.200
28	Post Closure management and supervision	Power cost	LS	3	150000	0.045
29		Post Mining Water quality management	LS	3	500000	0.150
30		Post Mining Air quality management	LS	3	500000	0.150
31		Subsidence monitoring for 5 years	LS	3	500000	0.150
32		Waste Management	LS			0.000
33		Manpower Cost and supervision	LS	3	800000	0.240
34	Others activities	Entrepreneurships development, vocational / skill development training for sustainable income of affected people	LS	-	-	0.300
35		Golden Handshake / Retrenchment benefits to employees of OC	LS	-	-	-
36		Golden Handshake / Retrenchment benefits to employees of UG	LS	-	-	-
37		One time financial grant to Society / Institutions / Organizations which is dependent upon the project	LS	-	-	0.200
38		Provide jobs in other mines of the company	LS	-	-	-
39		Continuation of other services like running of schools etc.	LS	-	-	0.200
40		Corpus Fund for CSR and R&R Colony	LS	-	-	
		Sub-total			-	**14.253**
		Grand Total				**116.837**

C. Table 8.4 No backfilling has been shown in Y-3 however, backfilled area has been shown in Y- 3 in Table 8.1.1
The above shall be reconciled/ explained. (Note : The issue of correction of table was pointed out by IC earlier also, refer Para 8.4 Annexure-10)

Updated and corrected.

..4..

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8.4 Waste Management (Figures in MM3) (Tentative)

YEAR	YEAR	OB Removal			External Dump		Internal Backfilling		Embankment	
		Cumulative			Cumulative		Cumulative		Cumulative	
		Top Soil	OB	Total	Top Soil	OB	Top Soil	OB	Top Soil	OB
Y-1	2023-24	0.11	2.22	2.33	0.11	2.22	0	0	0	0
Y-2	2024-25	0.22	11.25	11.47	0.22	11.25	0	0	0	0
Y-3	2025-26	0.37	21.25	21.62	0.37	16.71	0	4.54	0	0
Y-4	2026-27	0.55	30.42	30.97	0.55	23.41	0	7.01	0	0
Y-5	2027-28	1.04	37.28	38.32	0.92	24.92	0.12	12.36	0	0
Y-6	2028-29	1.15	43.47	44.62	1.03	26.81	0.12	16.66	0	0
Y-7	2029-30	1.30	49.62	50.92	1.18	30.66	0.12	18.96	0	0
Y-8	2030-31	1.50	57.82	59.32	1.38	31.51	0.12	26.31	0	0
Y-9	2031-32	1.69	63.13	64.82	1.57	33.69	0.12	29.44	0	0
Y-10	2032-33	1.88	71.59	73.47	1.62	36.48	0.26	35.11	0	0
Y-11	2033-34	2.10	75.27	77.37	1.84	36.33	0.26	38.94	0	0
Y-12	2034-35	2.40	78.87	81.27	2.14	36.63	0.26	42.24	0	0
Y-13	2035-36	2.80	82.37	85.17	2.54	37.13	0.26	45.24	0	0
Y-14	2036-37	3.00	86.07	89.07	2.74	37.33	0.26	48.74	0	0
Y-15	2037-38	3.50	89.47	92.97	3.02	37.61	0.48	51.86	0	0
Y-16	2038-39	3.90	92.97	96.87	3.02	37.61	0.48	55.76	0	0
Y-17	2039-40	4.31	96.46	100.77	3.83	38.42	0.48	58.04	0	0
Y-18	2040-41	4.41	100.26	104.67	3.93	38.52	0.48	61.74	0	0
Y-19	2041-42	4.41	104.16	108.57	3.93	38.52	0.48	65.64	0	0
Y-20	2042-43	4.41	113.51	117.92	3.93	38.52	0.48	74.99	0	0
Y-21	2043-44	4.60	122.42	127.02	4.12	39.71	0.48	82.71	0	0
Y-22	2044-45	5.25	130.87	136.12	4.77	43.53	0.48	87.34	0	0
Y-23	2045-46	5.25	139.97	145.22	4.77	43.56	0.48	96.41	0	0
Y-24	2046-47	5.25	149.07	154.32	4.77	43.56	0.48	105.51	0	0
Y-25	2047-48	5.25	155.97	161.22	4.77	43.56	0.48	112.41	0	0
POST CLOSURE										
Y-28	2050-51	**5.25**	**155.97**	**161.22**	**4.77**	**43.56**	**0.48**	**112.41**		

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Additional Annexure-15

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CIN - L27109HR1980PLC010724

Subject :- Para-wise compliance with observations made during the meeting of Internal Committee constituted under MMDR Act 1957 for approval of Mining Plan / Mine Closure Plan was held on 30/08/2022 through Video Conference (VC) to consider Mining Plan and Mine Closure Plan for BHASKARPARA COAL MINE of M/s PRAKASH INDUSTRIES LIMITED:

(APPLICATION NO. APP00208)

1	A. Annexure V	Error in the Annexure has been corrected.
	B. Table 8.10.1	Error has been rectified and table revised accordingly
2	Para 1.4.2 Conditions, if any	Conditions of previously Approved Mining Plan as below have been inserted in para 1.4.2: 1. The Project Proponent should ensure implementation of all observations made by internal committee during actual operation. 2. Project Proponent shall take all necessary precautions regarding safety of mine workings and persons deployed therein. 3. Mining lease of this block shall not encroach into any other adjacent coal block. 4. The cost of abandonment for carrying out the closure activities envisaged in mine closure is indicative. The actual cost for carrying out the activities at the time of final closure may be higher. The actual cost of abandonment will have to be borne by the project proponent for carrying out closure activities. 5. The approval of the Mining Plan (including Mine Closure Plan) in without prejudice to the requirement of approvals from competent / prescribed authority under the relevant rules/ regulations etc. 6. Approval of Mining Plan is technical in nature, which is granted with a view to facilitating further developmental activities by the allocattee. This approval will have no effect on the penalty provisions of the agreement in case of non achievement of Milestones. 7. Monitoring of milestones for development of mine will be as per the efficiency parameters in CBDPA / CMDPA and appropriation of PBG will be done in case of failure / delay in compliance with the timelines of CBDPA / CMDPA. 8. Approval of Mining Plan and Mine Closure Plan is restricted to the activities / structures / evacuation route / roads / water bodies / other surface features / land outlines / infrastructure within Geological Block / Project Area. Other activities / structures / evacuation route / roads / water bodies / other surface features / land outlines / infrastructure outside the Geological Block / Project Area shall not be the part of Mining Plan (in line with para 1.6 of MoC guidelines for preparation of Mining Plan dated 29.05.2020)

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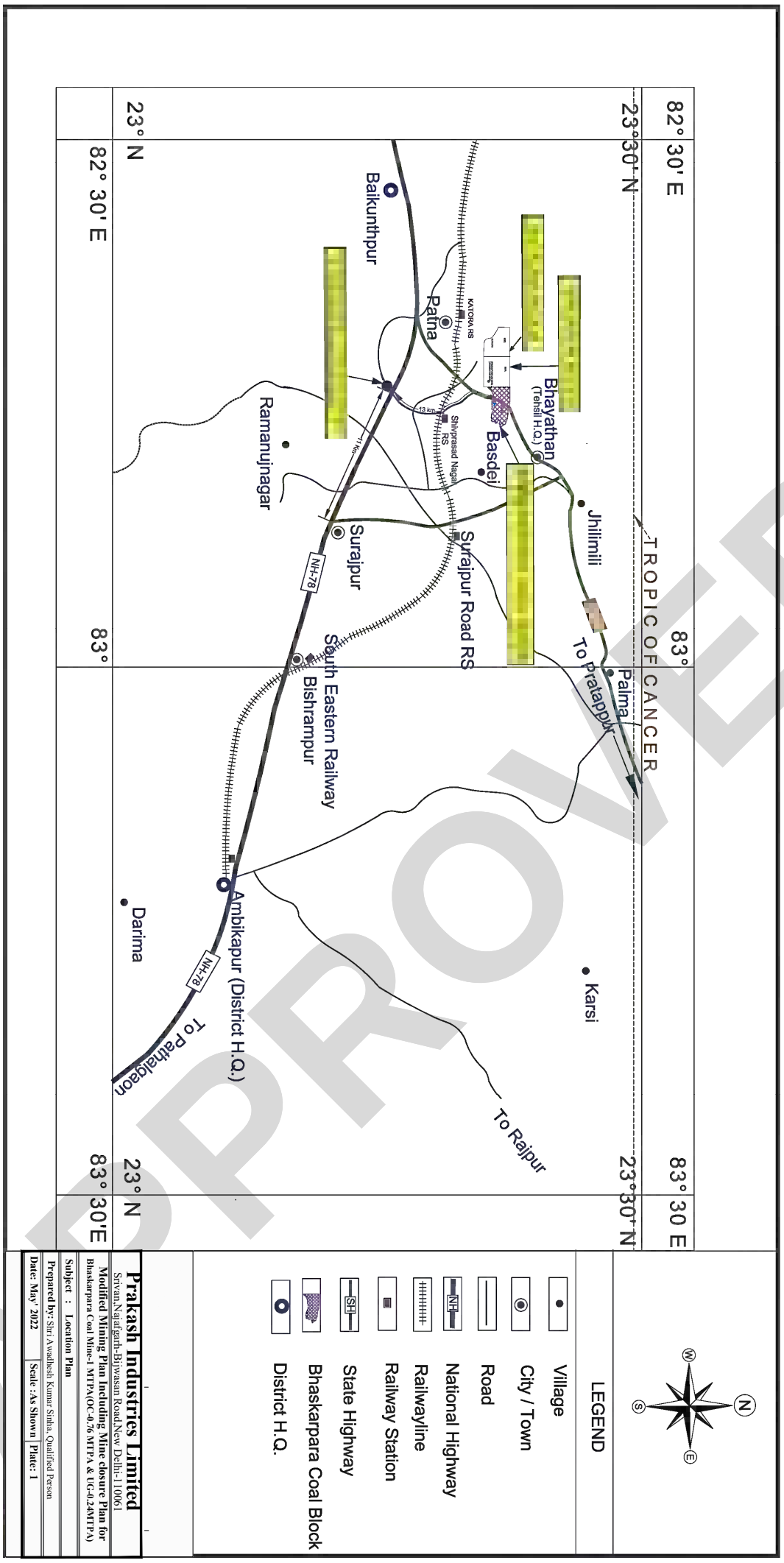
		9. In the report, future plan of exploration has been proposed (refer para 2.2.9 of the Mining Plan). Also, it has been proposed that a revised Mining Plan, further detailing of Mining Scheme (as per guidelines of MoC for Mining Plan dated 20.05.2020) for underground mining, would be submitted in Y-6 (refer Additional Annexure-11 of the Mining Plan) as production from underground has been proposed from Y-8 year (Yr. 2030-31). The project proponent shall submit a Revised Mining Plan latest by Y-6 (Yr. 2028-29) further detailing the aforesaid scheme from underground mining and liquidation program of additional reserves established as a result of proposed exploration program. 10. In the report, realignment of the diverted nala has been proposed, nearing exhaustion of Quarry-NW, to free the blocked reserves. Proper scientific studies shall be done in this regard. The project proponent shall submit a Revised Mining Plan incorporating the liquidation program of the aforesaid reserves also.
3	Condition No. 9 of the Approved Mining Plan letter no. BHASKARPARA COAL MINECT/APP0064/2021 dated 10.03.2022.	It is proposed to submit the detailed mining scheme for underground mining based on information collected during proposed exploration, related scientific studies and after understanding of rock mechanics of seam and overlying strata by 3rd year of mining operation. Underground Mining is proposed to commence in the 5th year of mining operation. Accordingly, revised Mining Plan shall be submitted by Y-3 (2025-26) further detailing the aforesaid mining scheme from underground mining and liquidation program of additional reserves established as a result of the proposed exploration program.
	Condition No. 10 of the Approved Mining Plan letter no. BHASKARPARA COAL MINECT/APP0064/2021 dated 10.03.2022.	It is proposed to undertake proper scientific studies for realigning the diverted nala nearing exhaustion Quarry-NW with a aim of liquidation of blocked reserves under the diverted nala. Thereafter, a revised Mining Plan shall be submitted incorporating the liquidation program of the aforesaid reserves.

Plan/Plates

Plate 1



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Plan / Plate 2A

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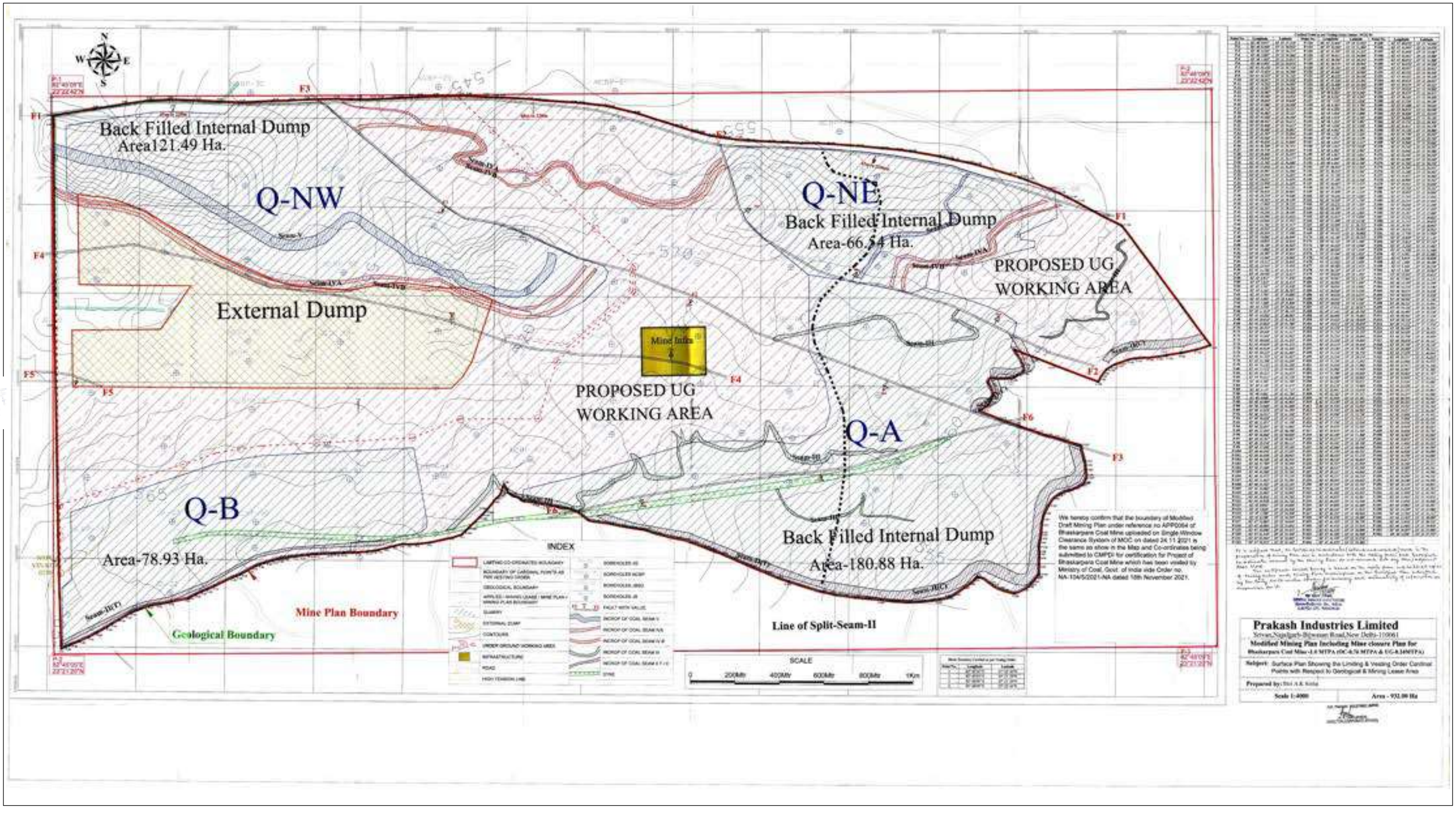

Plan / Plate 2B

Date:----------

CERTIFICATEOFQUALIFIEDPERSON

This is to certify that the project area of 932 ha has been conceptualized while planning of Bhaskerpara CoalBlock of Jhilimili Coalfield,Chhatisgarh District,Chhalisgarhfalls well within the GeologicalBlockboundaryascertifiedbyCMPDI.

The geo-reference Co-ordinates considered for preparation of MiningPlan of Bhaskerpara CoalBlock of Jhilimili Coalfield, Chhatisgarh District, Chhalisgarhisinlinewithvesting/allotmentorderanddoesnotencroachanyotheradjacentcoalblock.

24/11/21

ShriA.K.Sinha

(RegNo.34012/(1)/2011-(CPAM),
Q.P. under Rule 22B(2)(i) of MCR 1960

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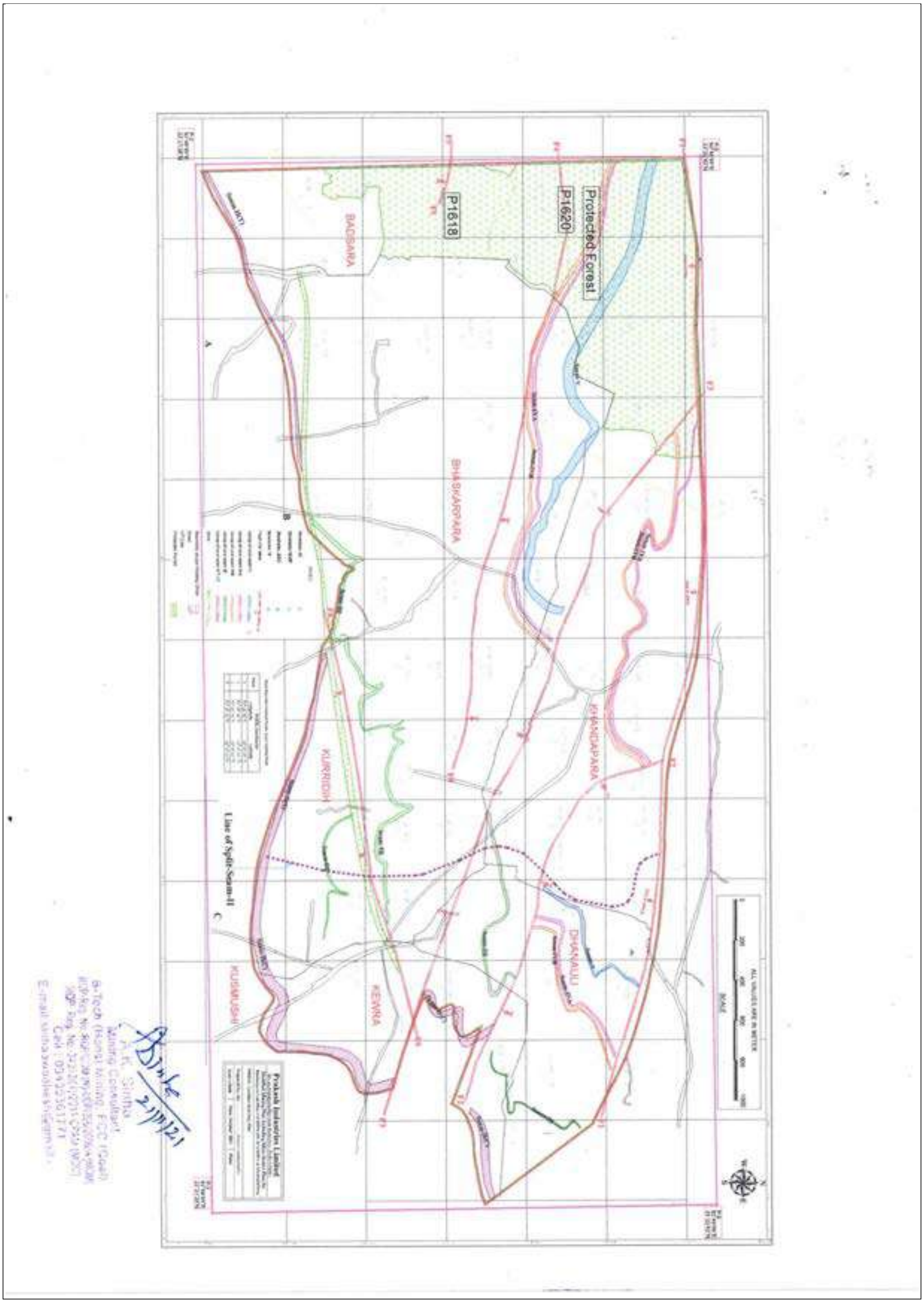
Plan / Plate 3A (Lease Area)



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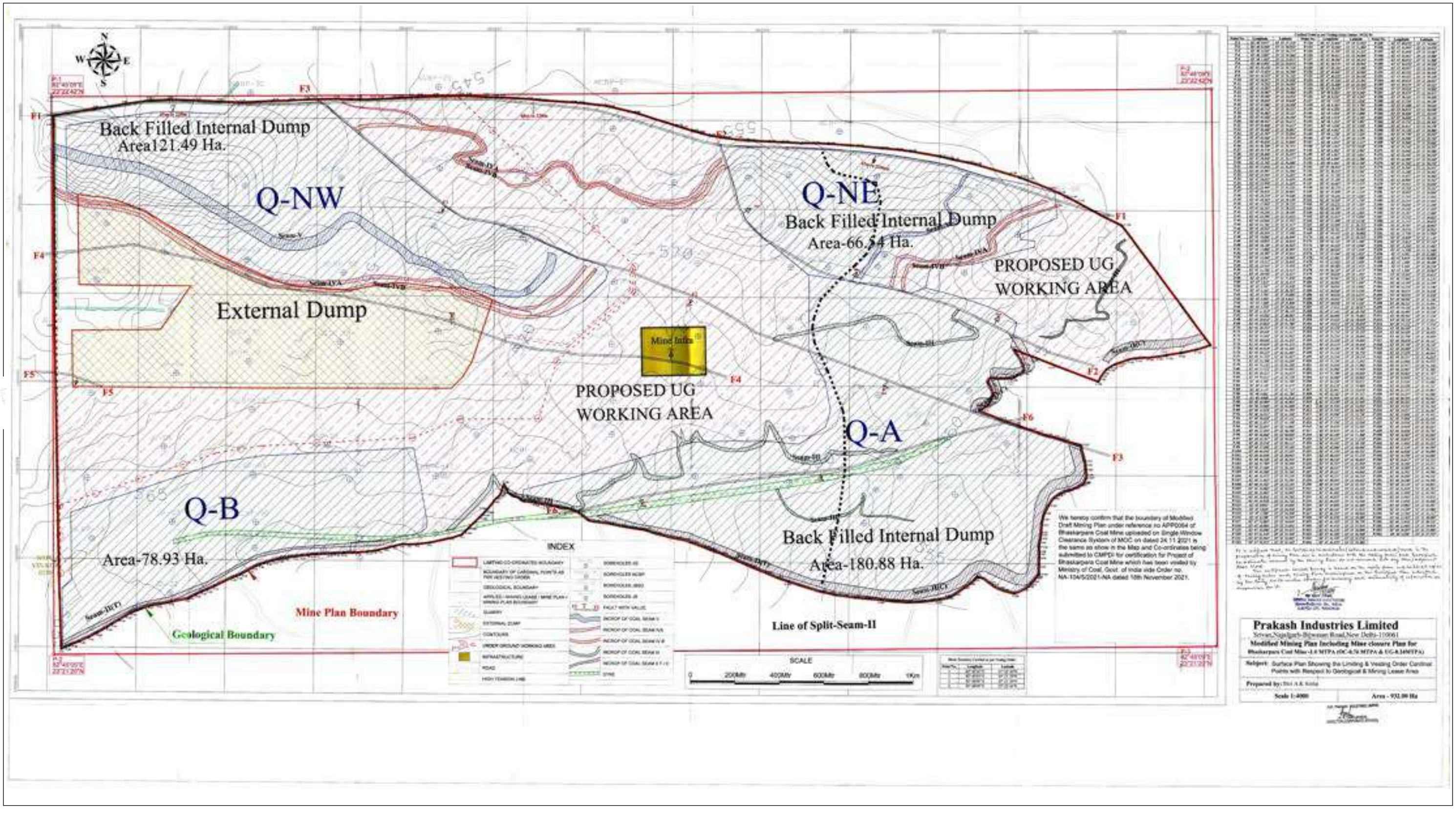
Plan / Plate 3B (Project Area))

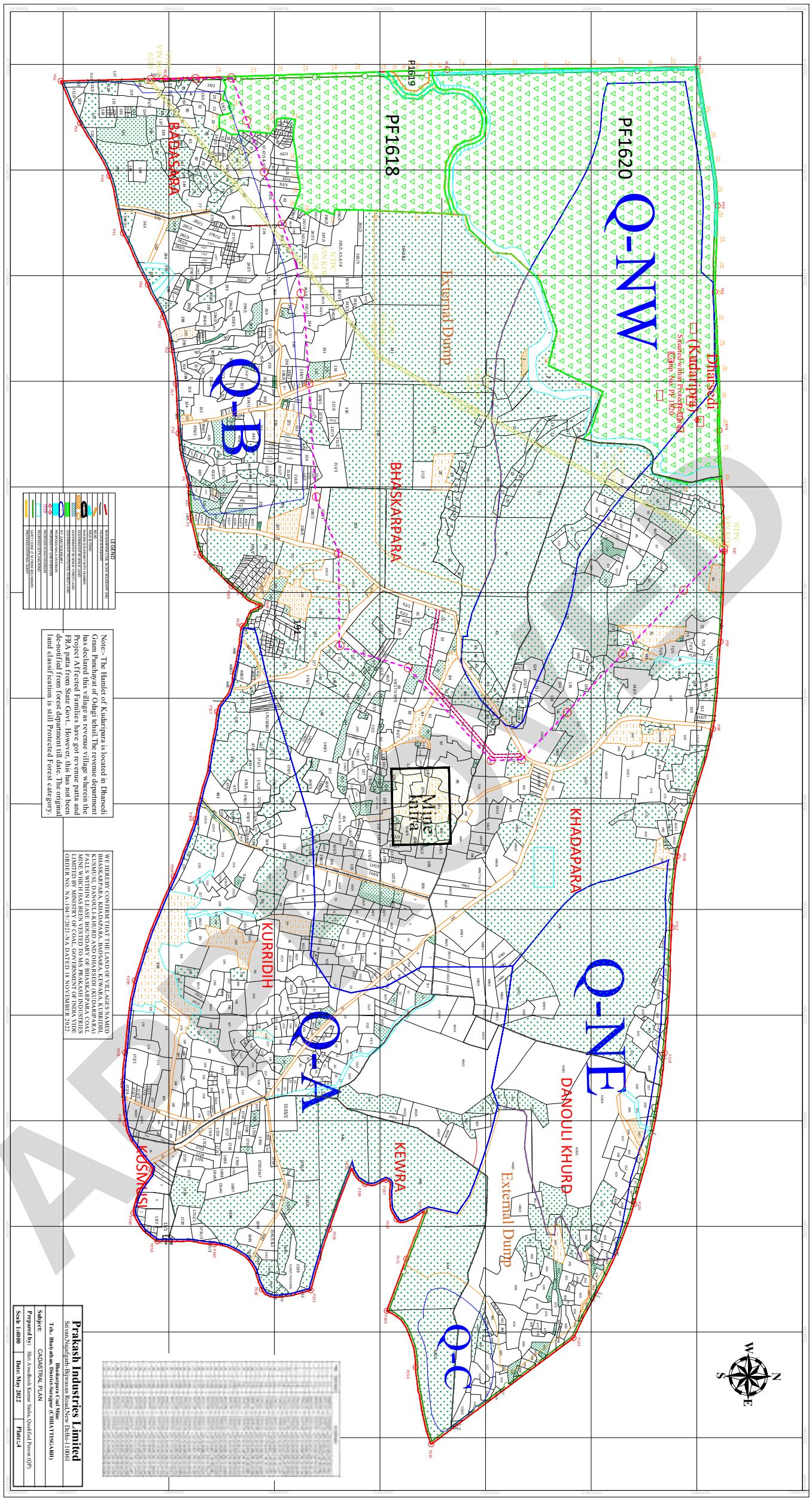
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 3C (Geological Block))

Prepared By Awadhesh Kumar Sinha On 12/05/2022

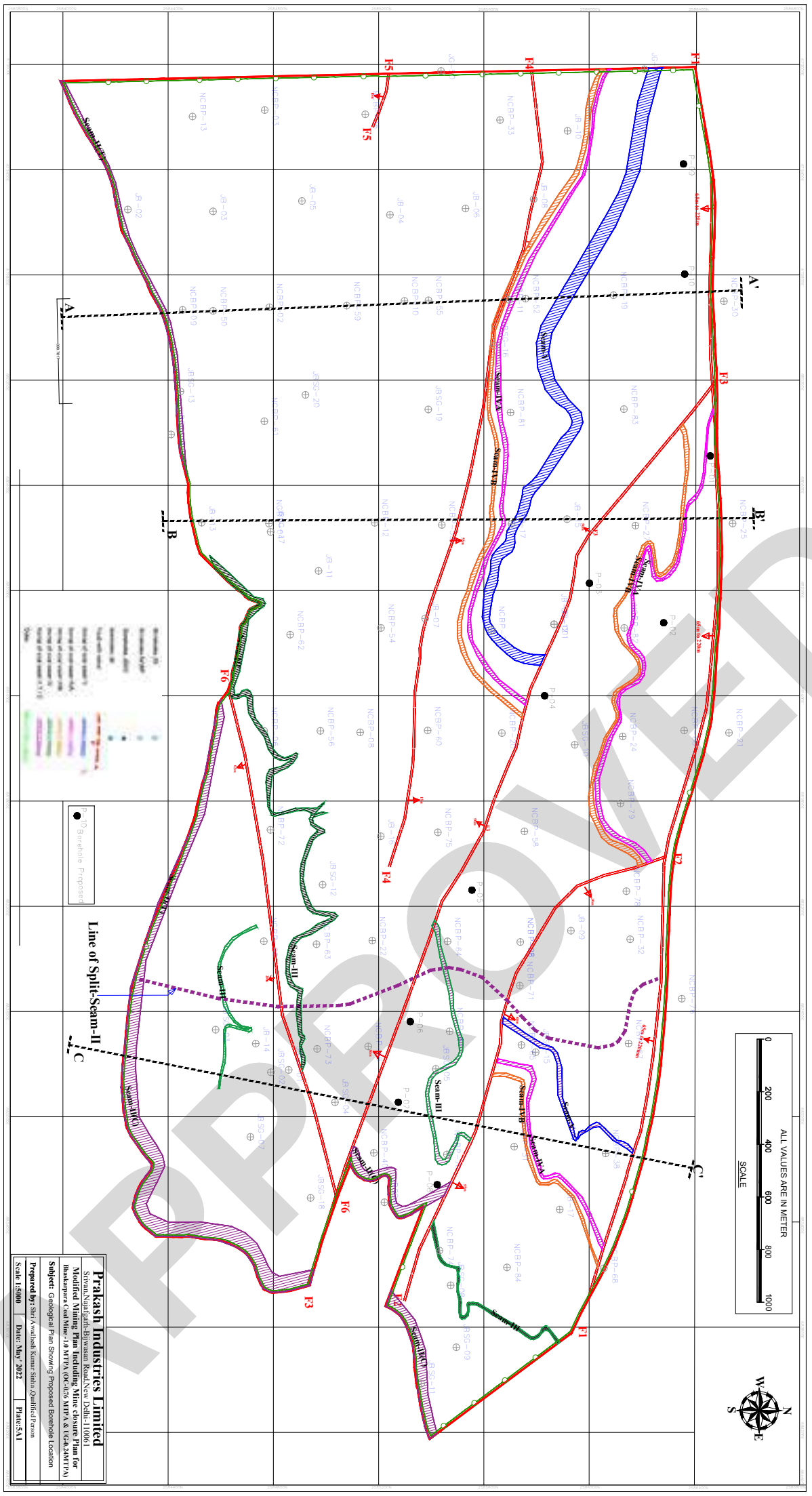


Plan / Plate 4



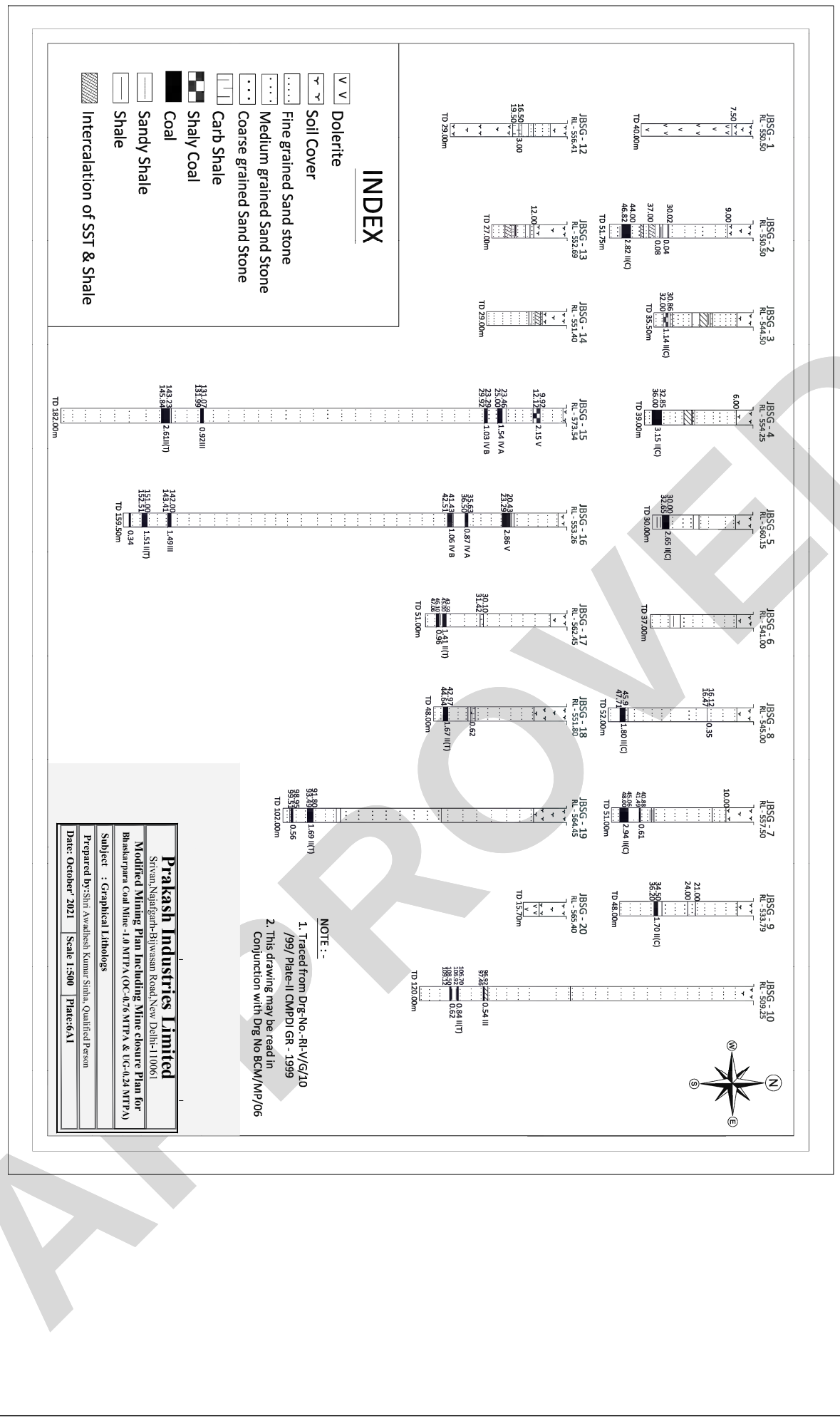
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 5A1



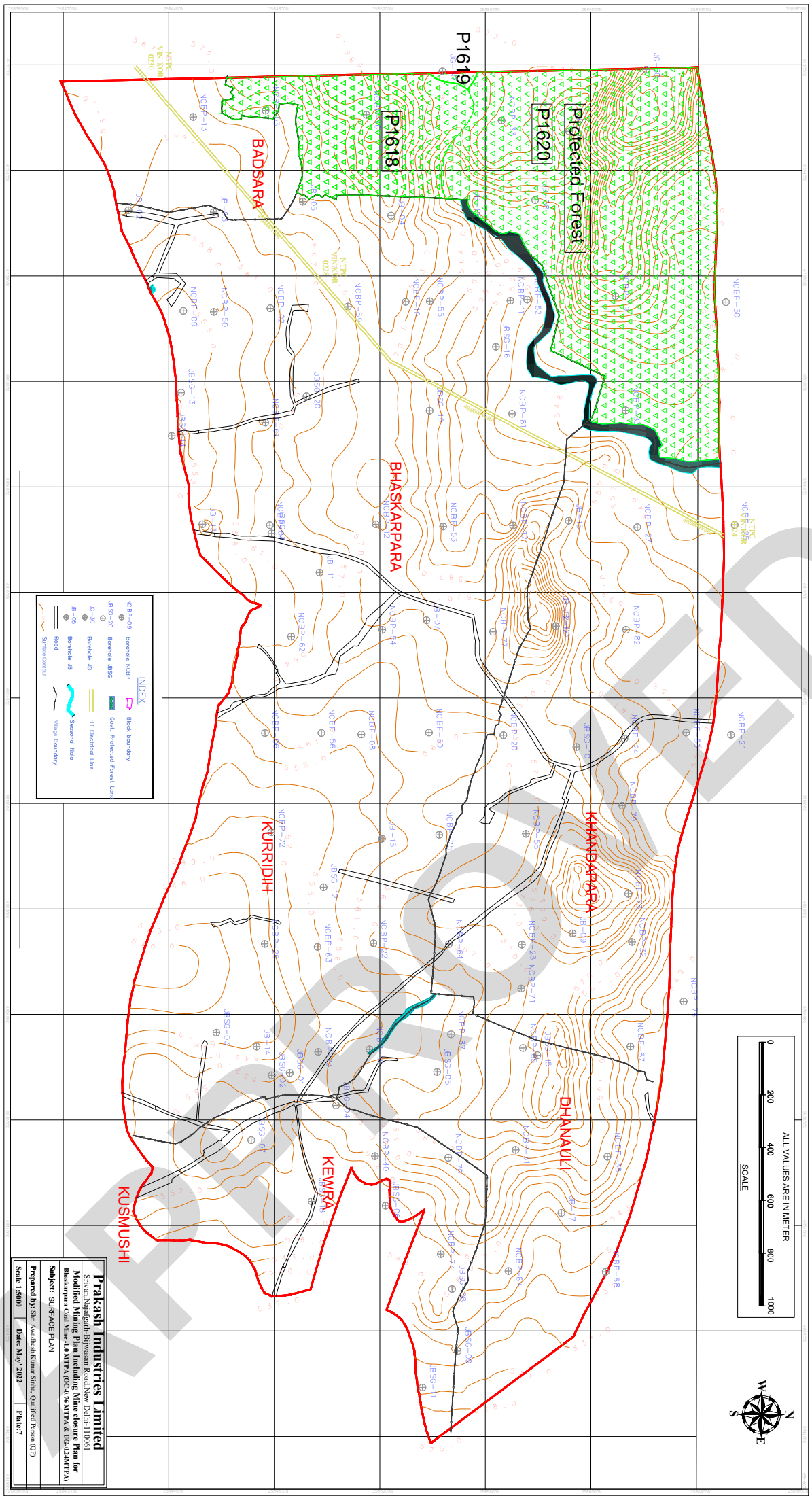
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 6A1



Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 7



Prakash Industries Limited

Srivatsan,Najafgarh-Bijwasan Road,New Delhi-110061

Modified Mining Plan Including Mine closure Plan for

Bhaskarpara Coal Mine-1.0 MTPA (OC-0.76 MTPA & UG-0.24MTPA)

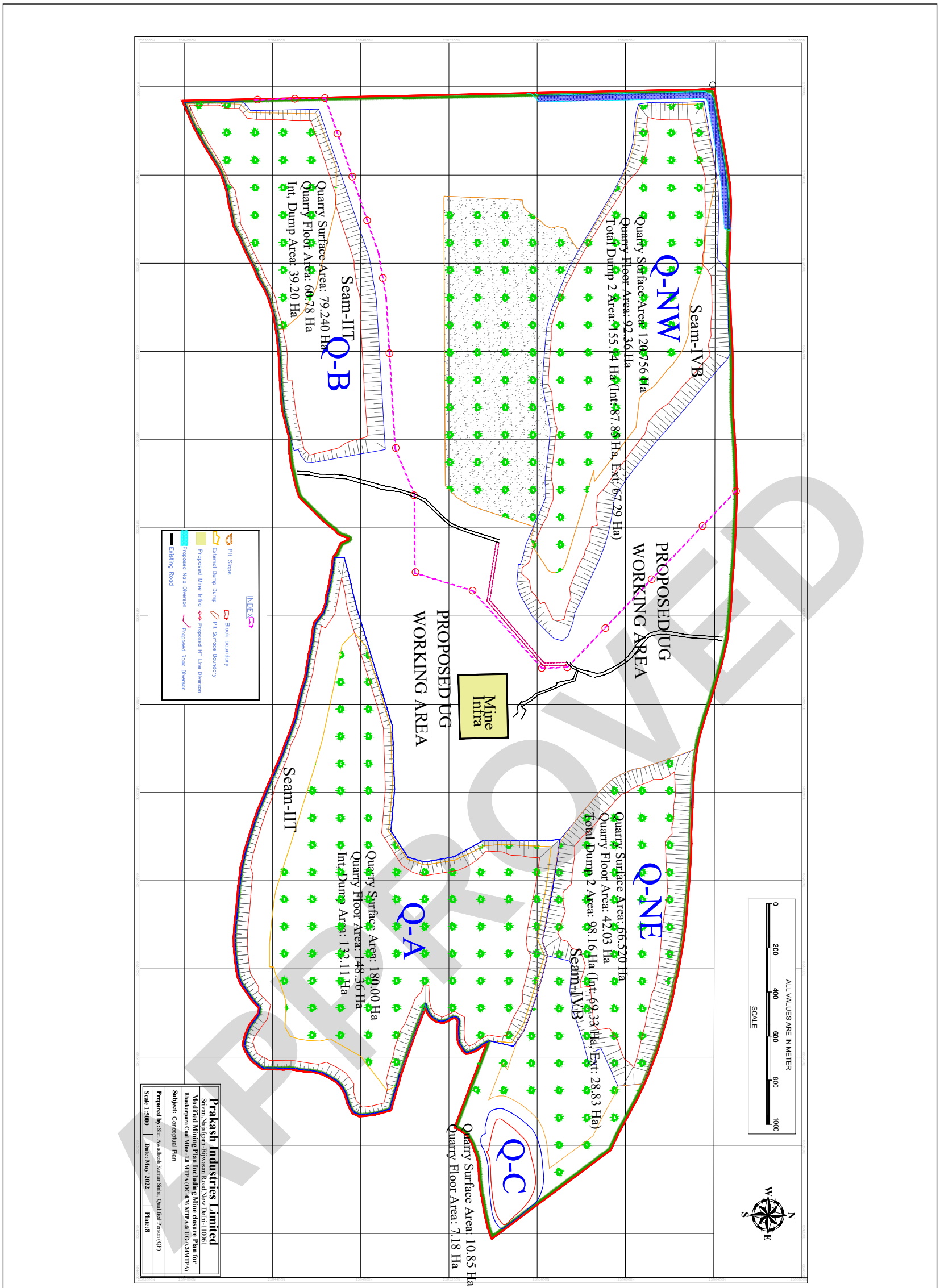
Subject: SURFACE PLAN

Prepared By: Shri Awadhesh Kumar Sinha, Qualified Person (QP)

Scale 1:5000 | **Date: May' 2022** | **Plate:7**

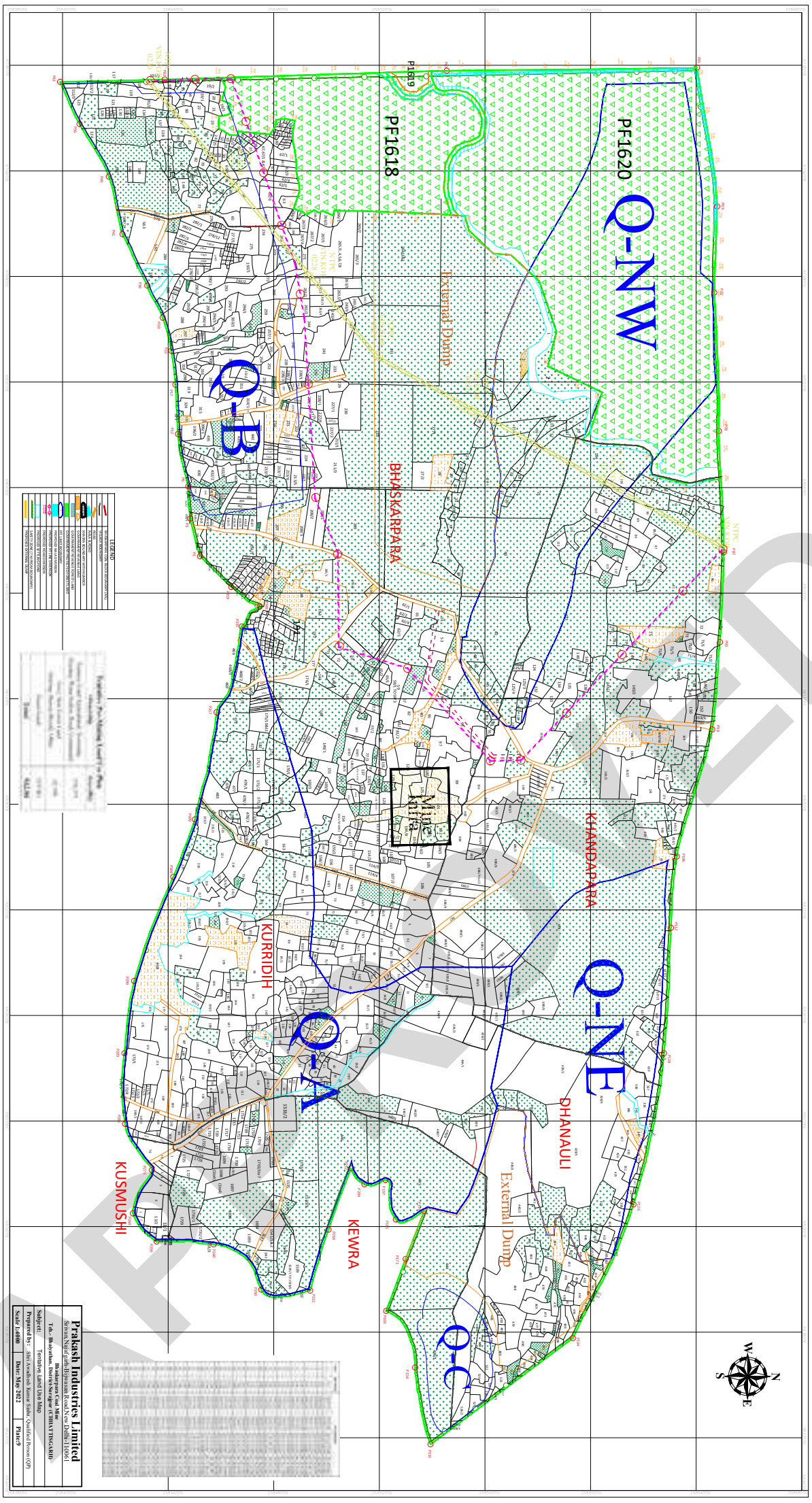
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 8



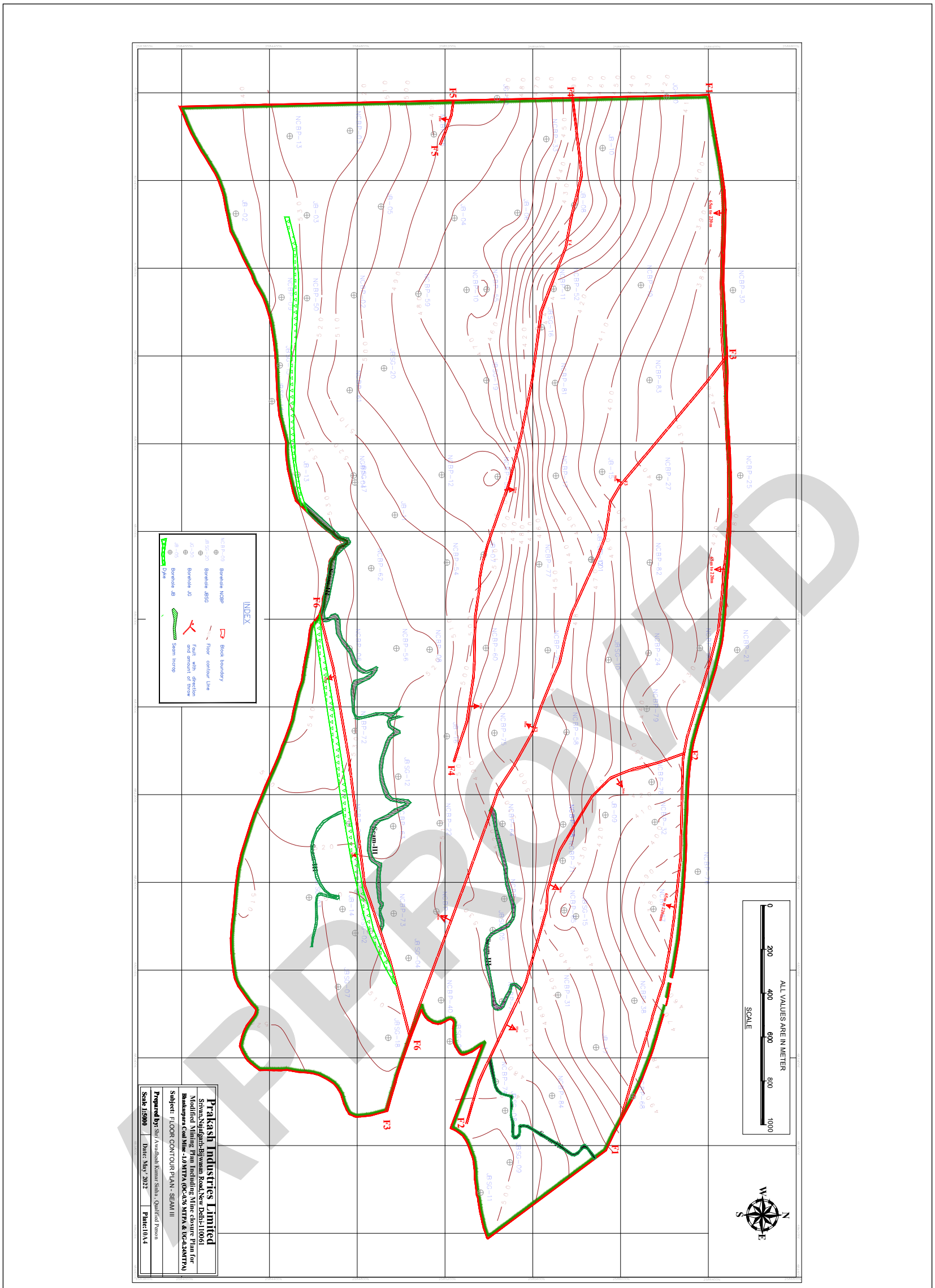
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 9



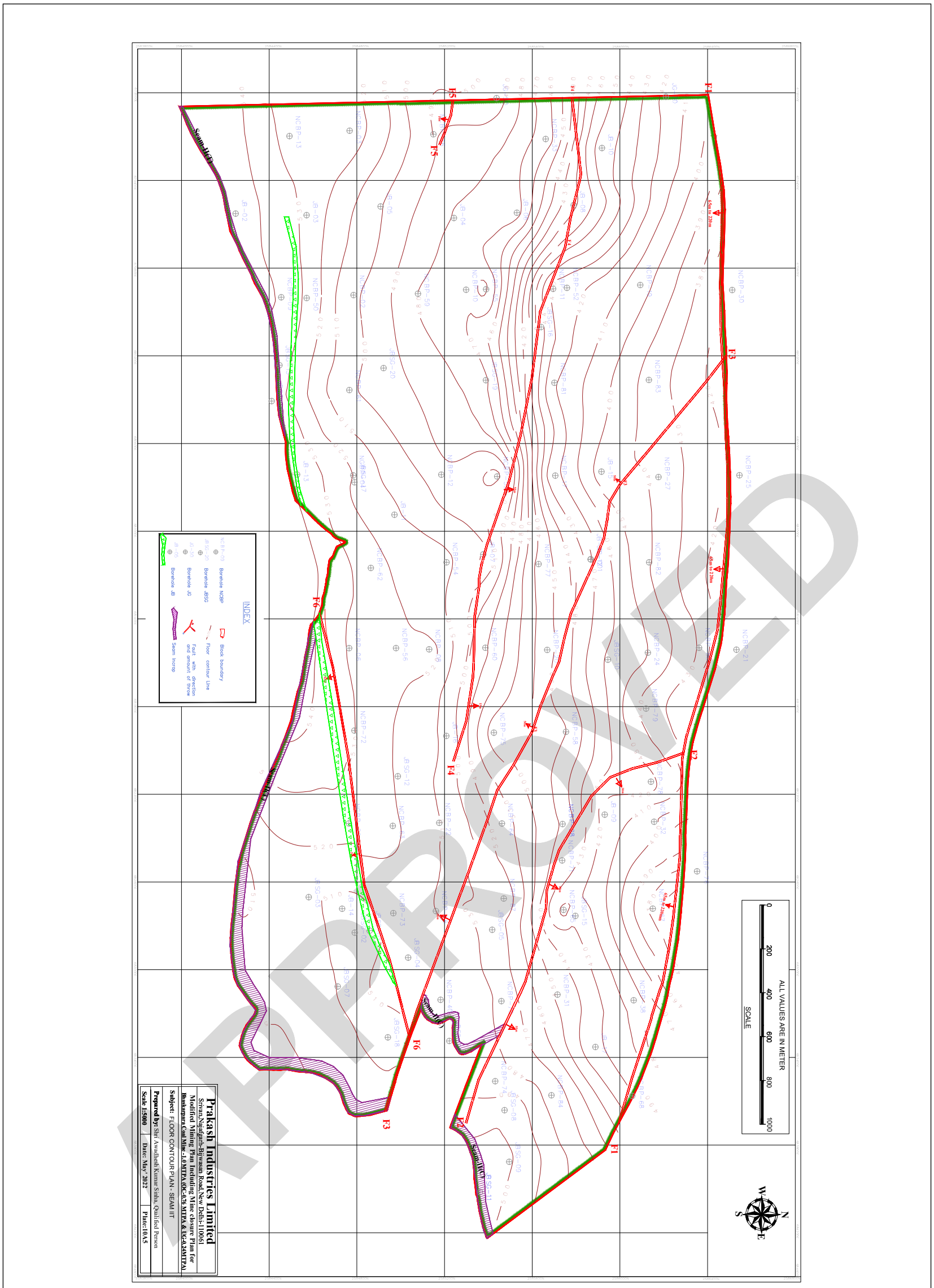
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10A1



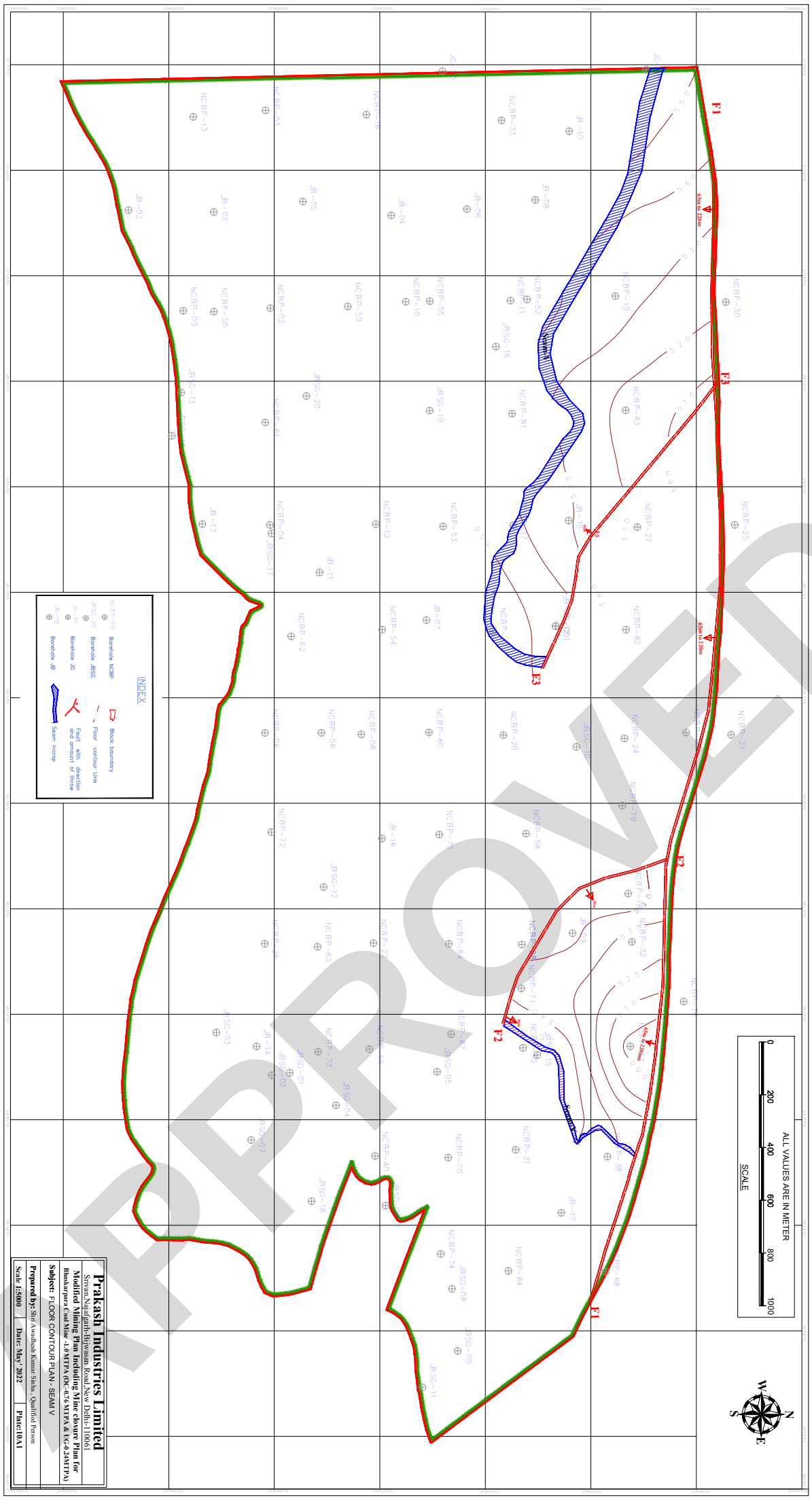
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10A2



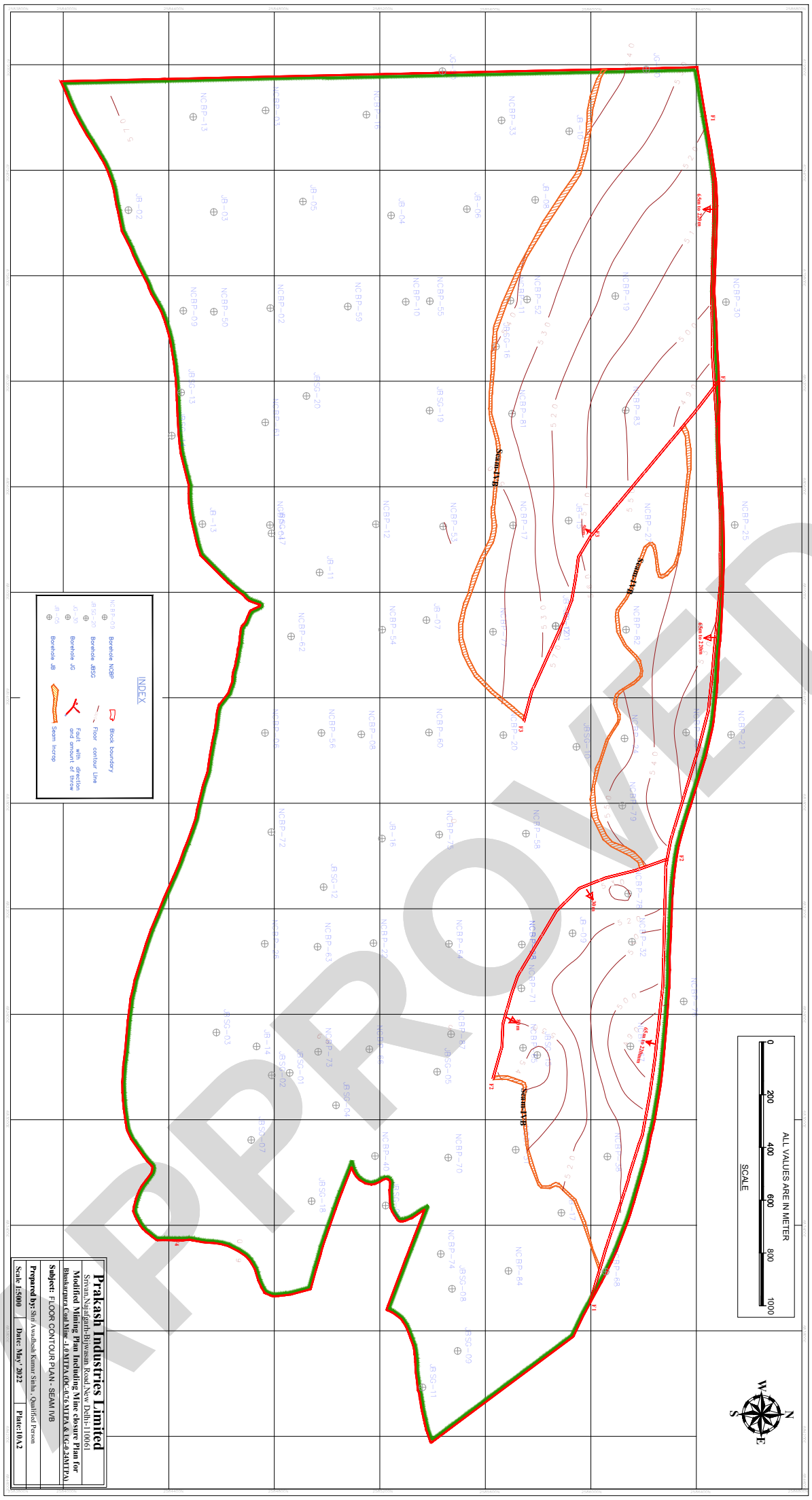
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10A3



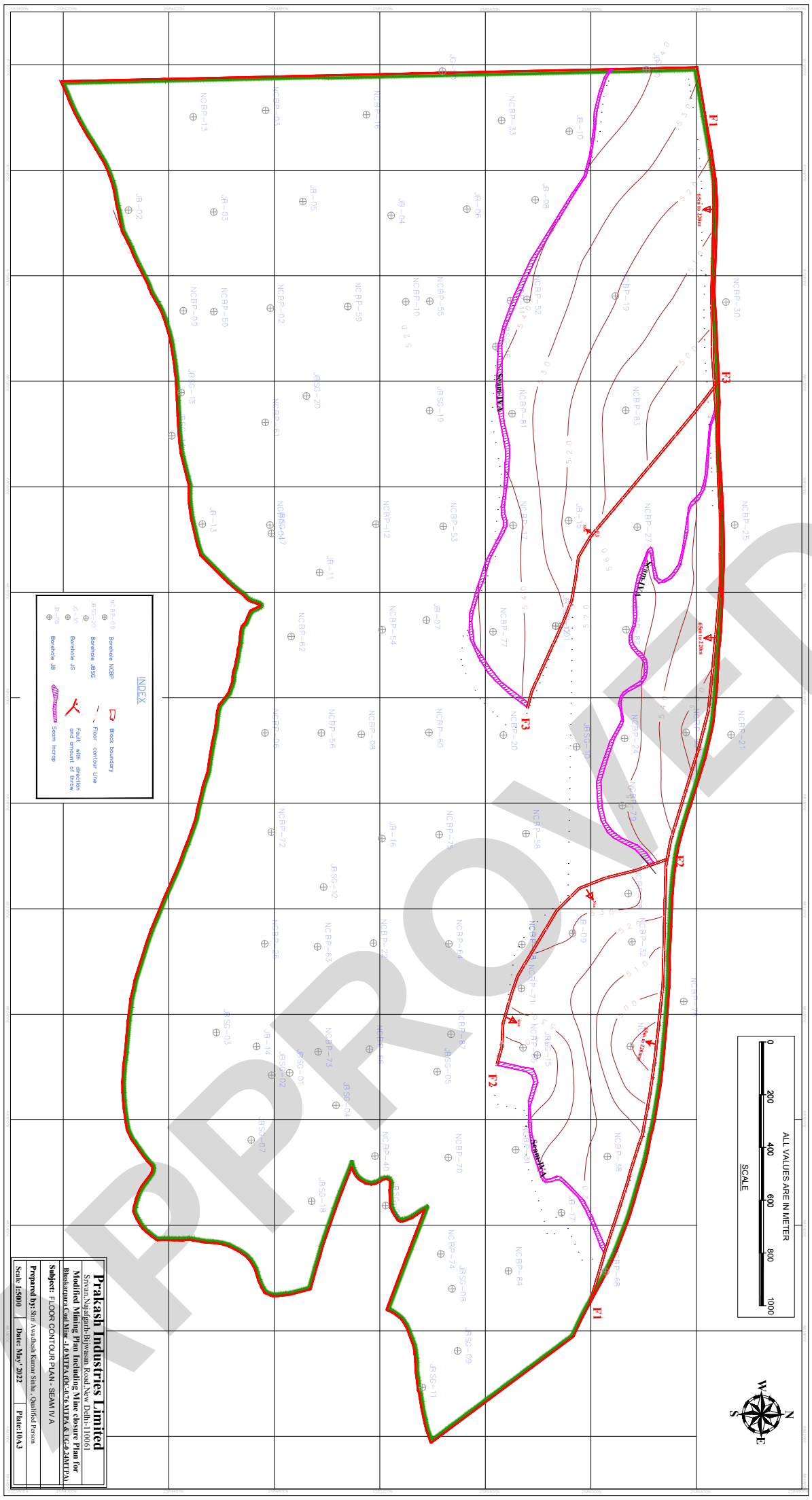
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10A4



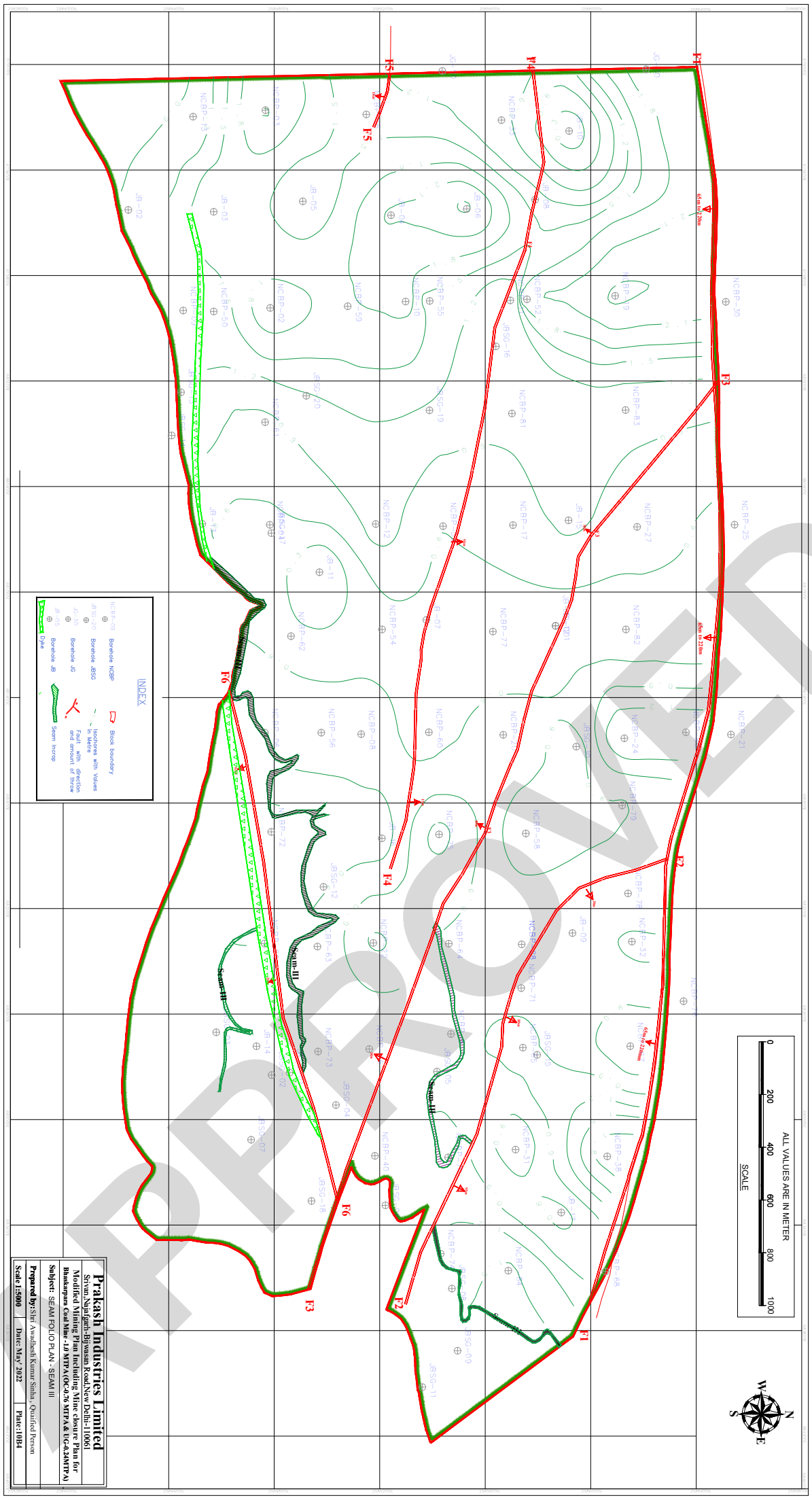
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10A5



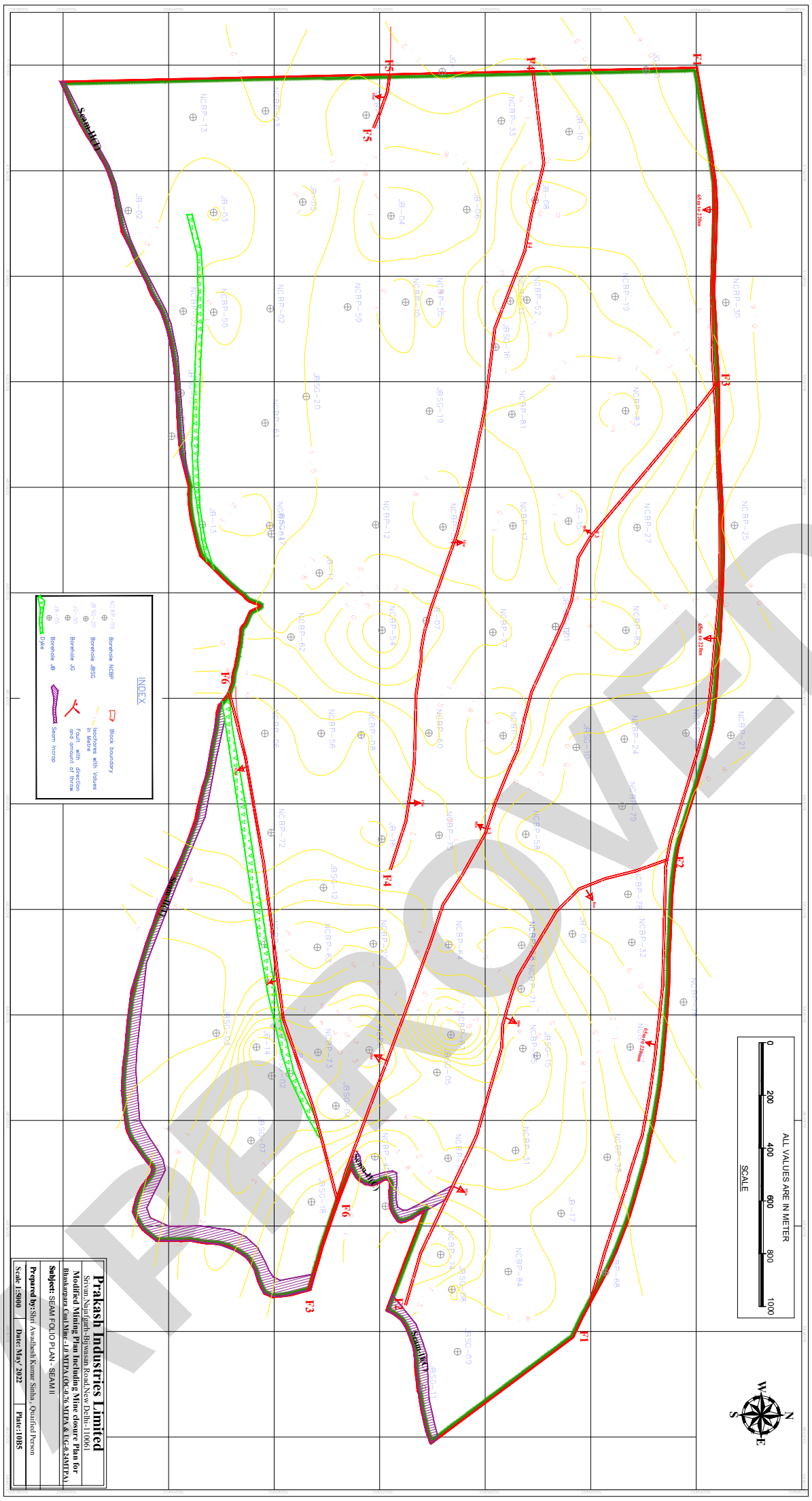
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10B1



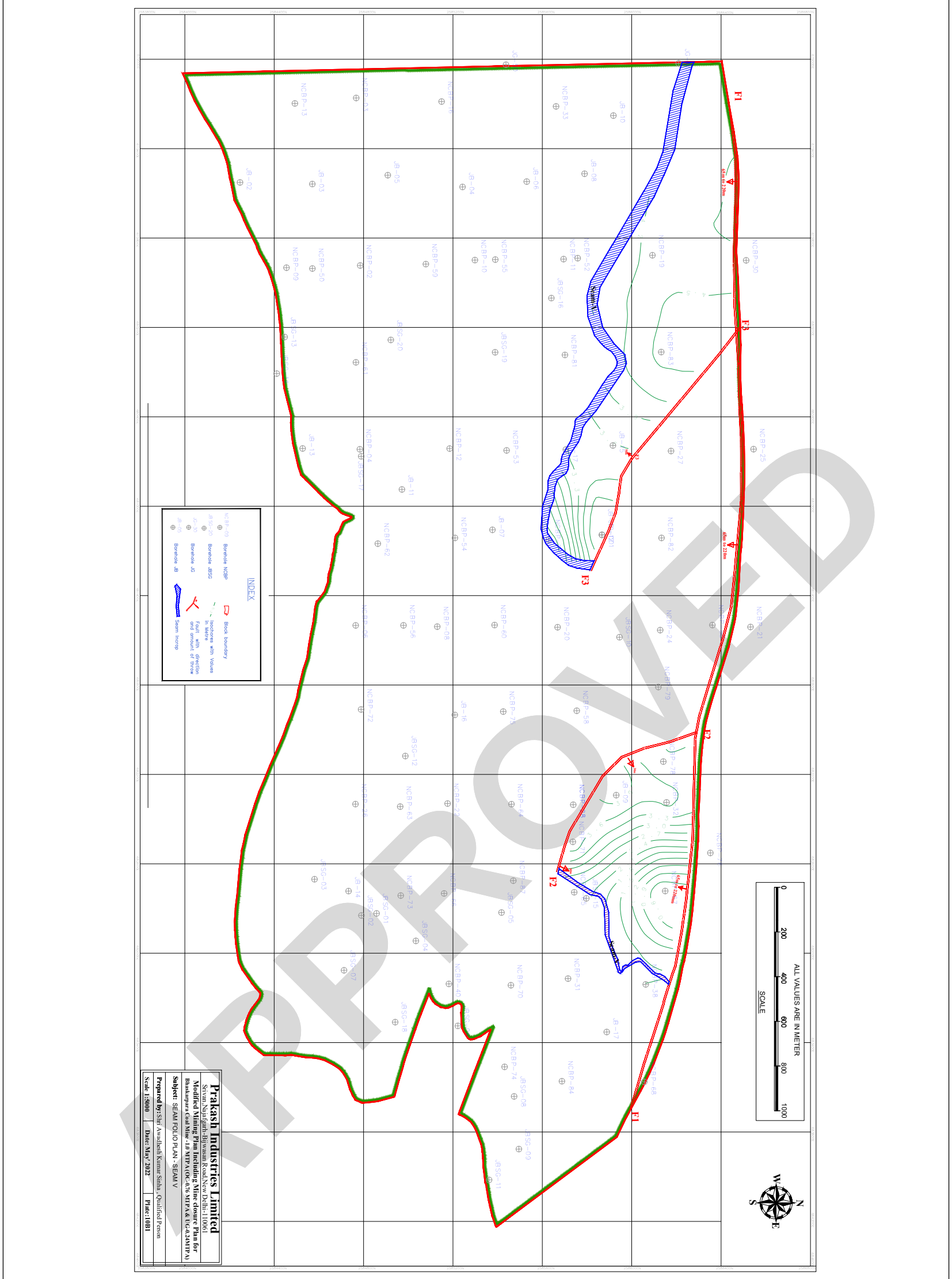
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10B2



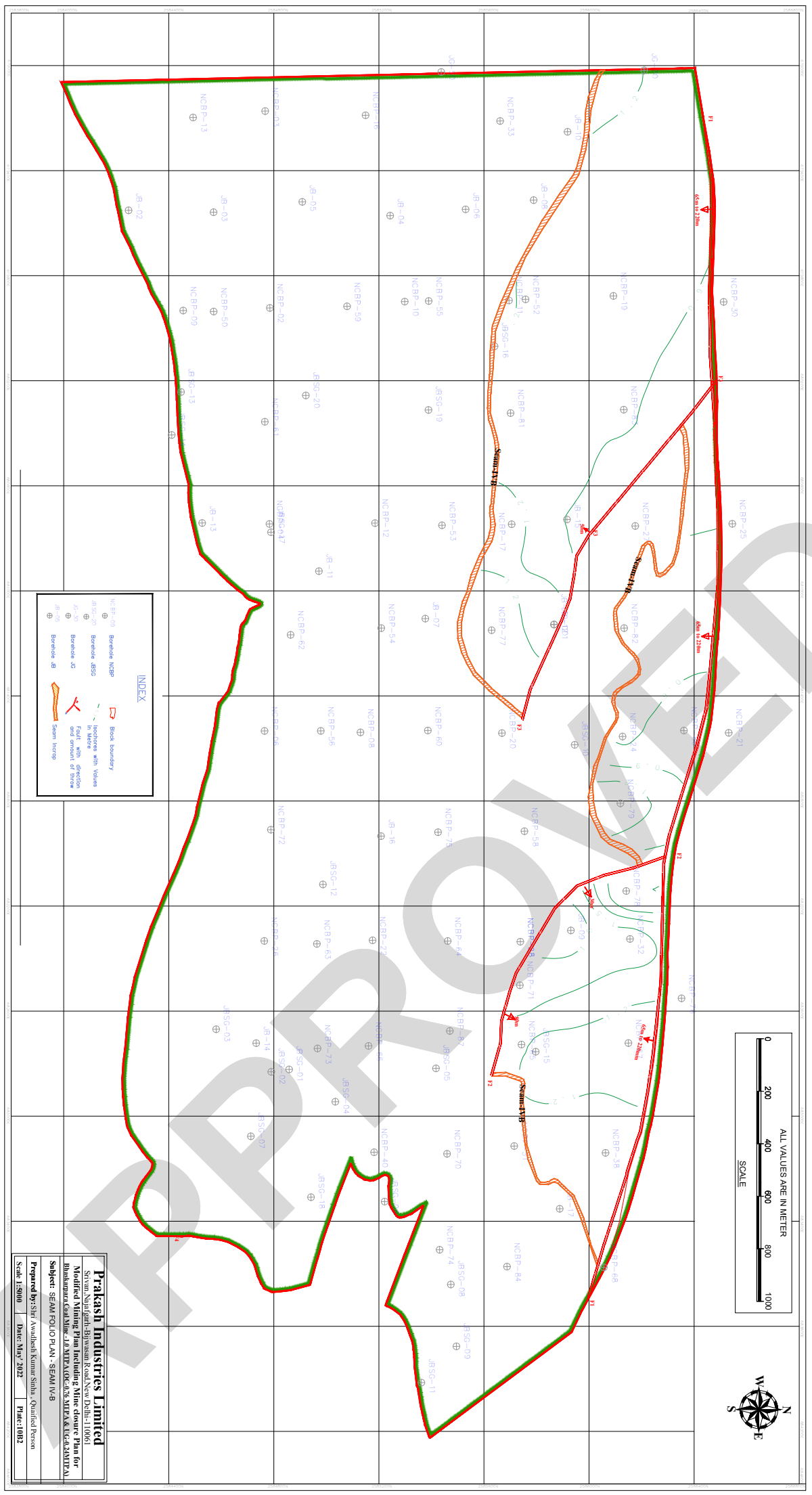
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10B3



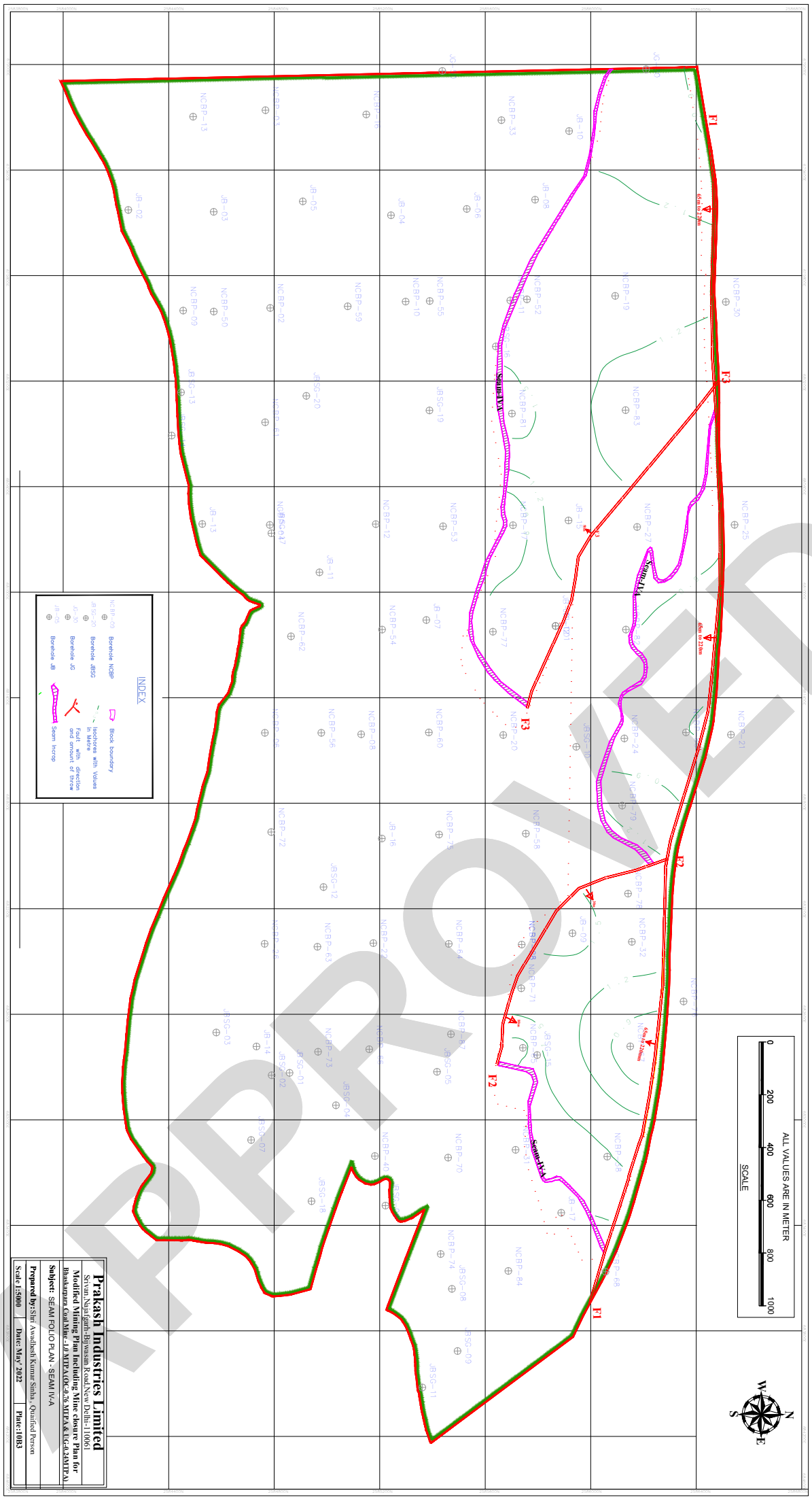
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10B4



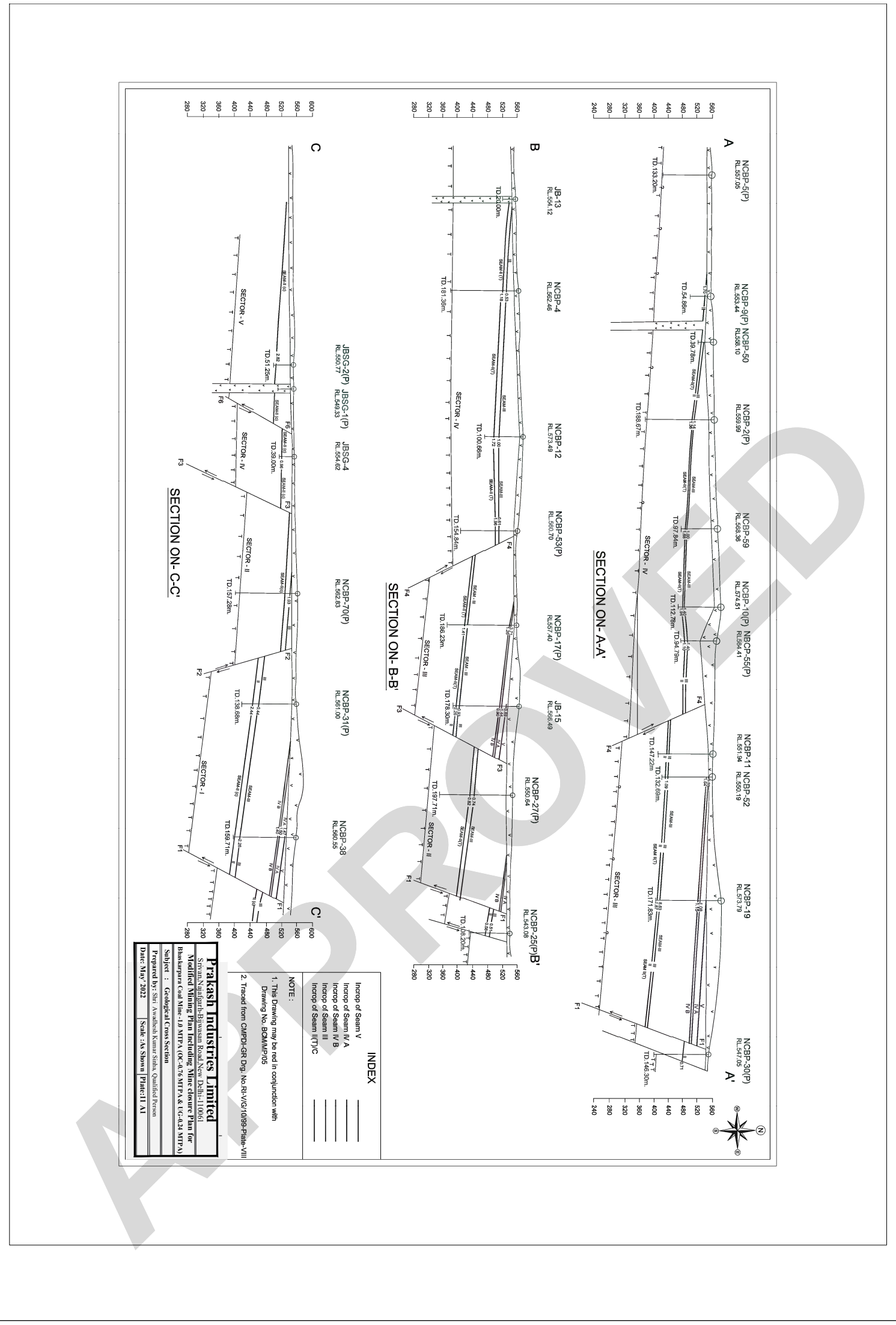
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 10B5



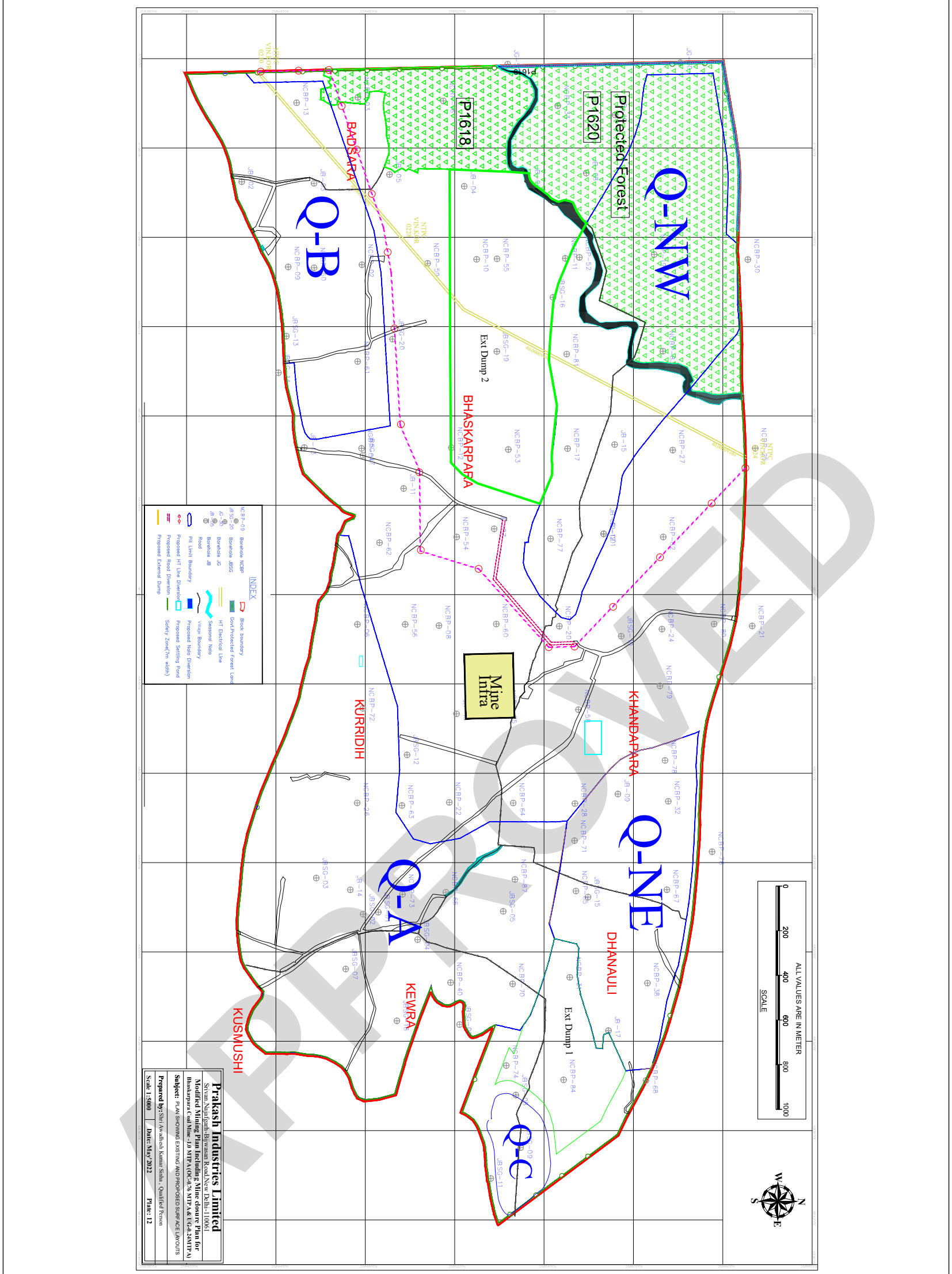
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 11A1



Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 12



Prakash Industries Limited
Sirvani Nagar(garh-Bijbwasan Road,New Delhi- 110061

Modified Mining Plan Including Mine closure Plan for
Bhaskarpara Coal Mine- 1.0 MTPA (OC-0.76 MTPA & UG-0.24 MTPA)

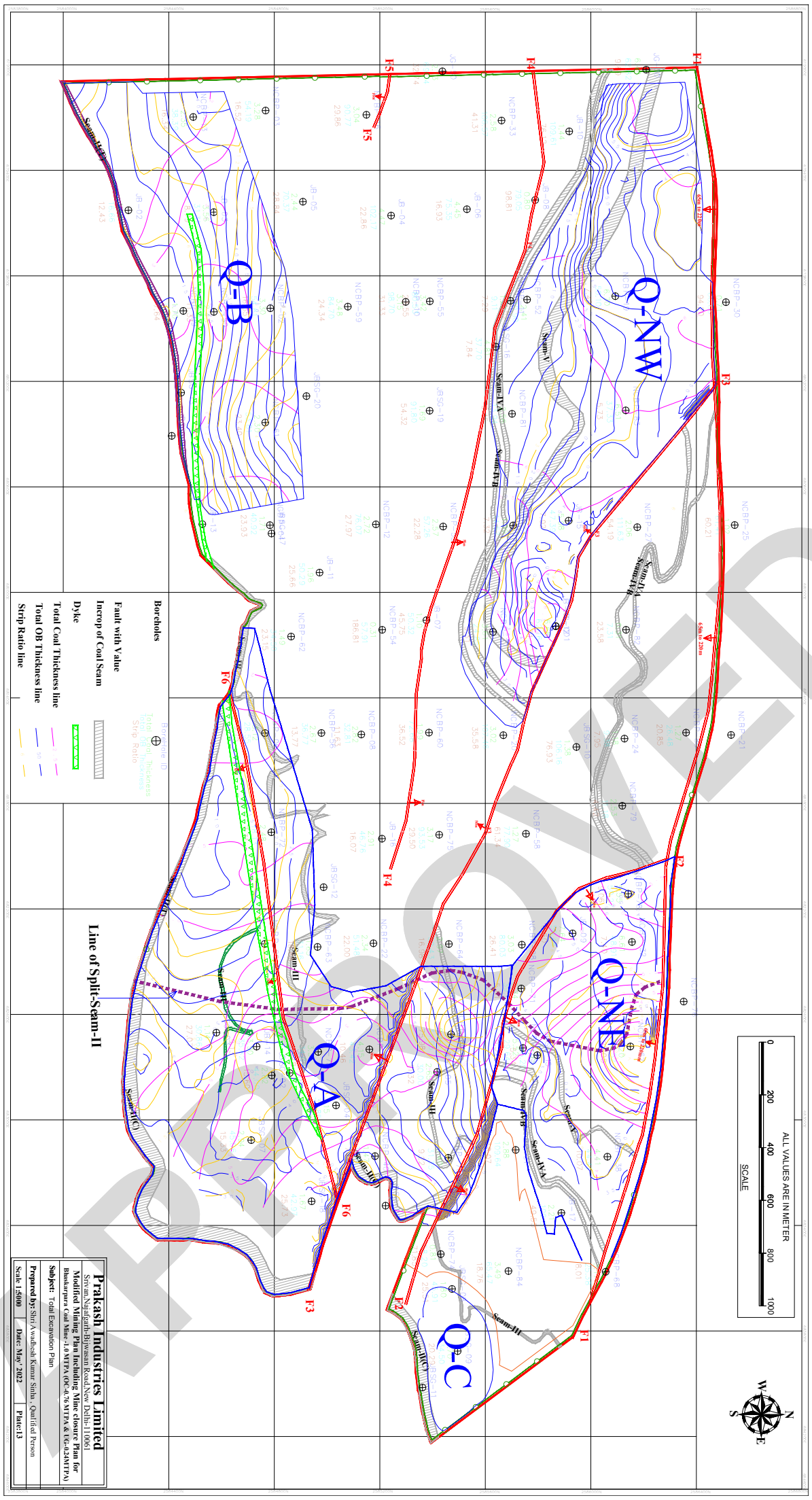
Subject: PLAN SHOWING EXISTING AND PROPOSED SURFACE LAYOUTS

Prepared by: Shri Awadhesh Kumar Sinha , Qualified Person

Scale 1:5000 | **Date: May'2022** | **Plate: 12**

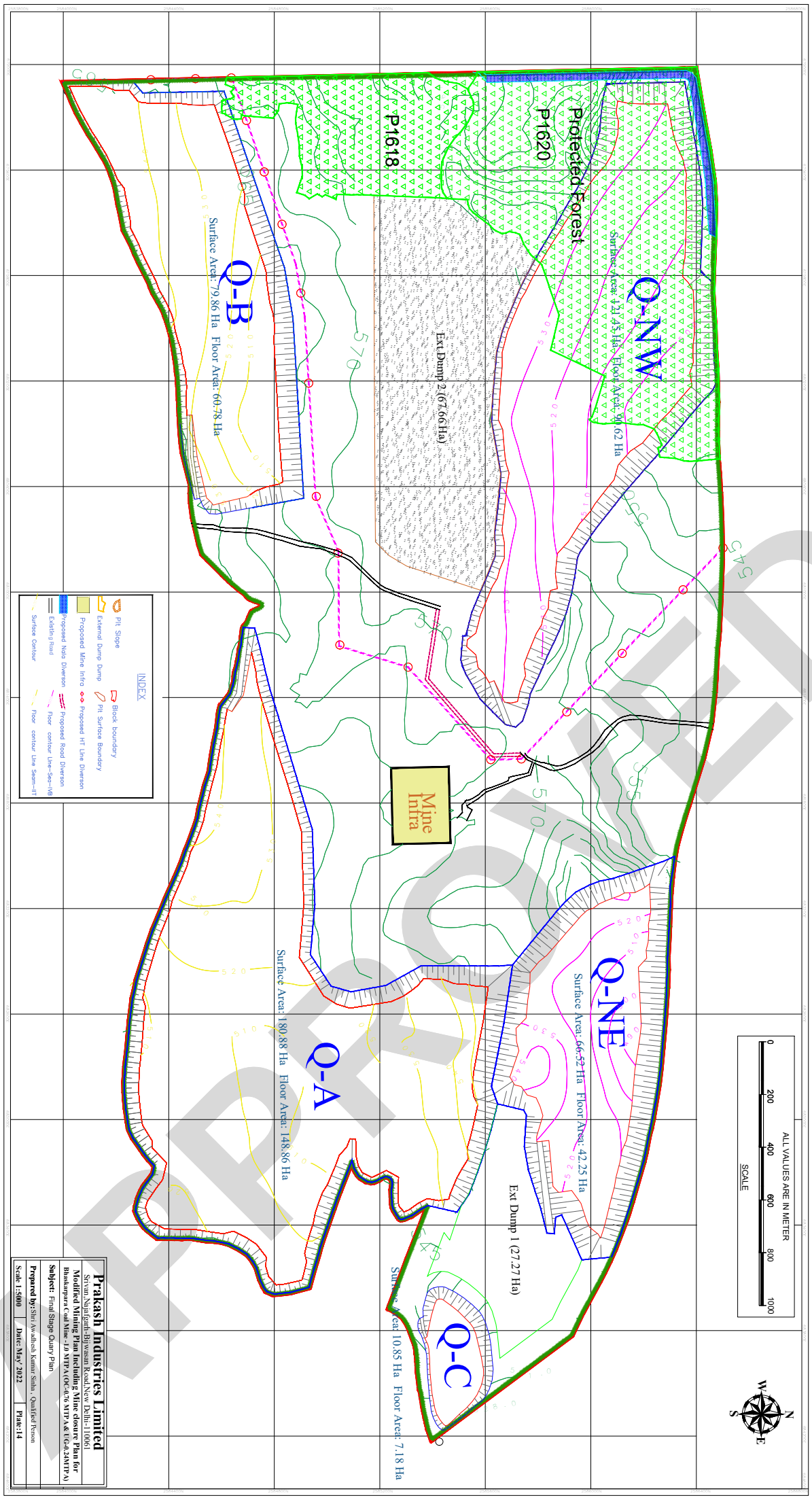
Prepared By Awadhesh Kumar Sinha On 12/05/2022

OC Plate-13



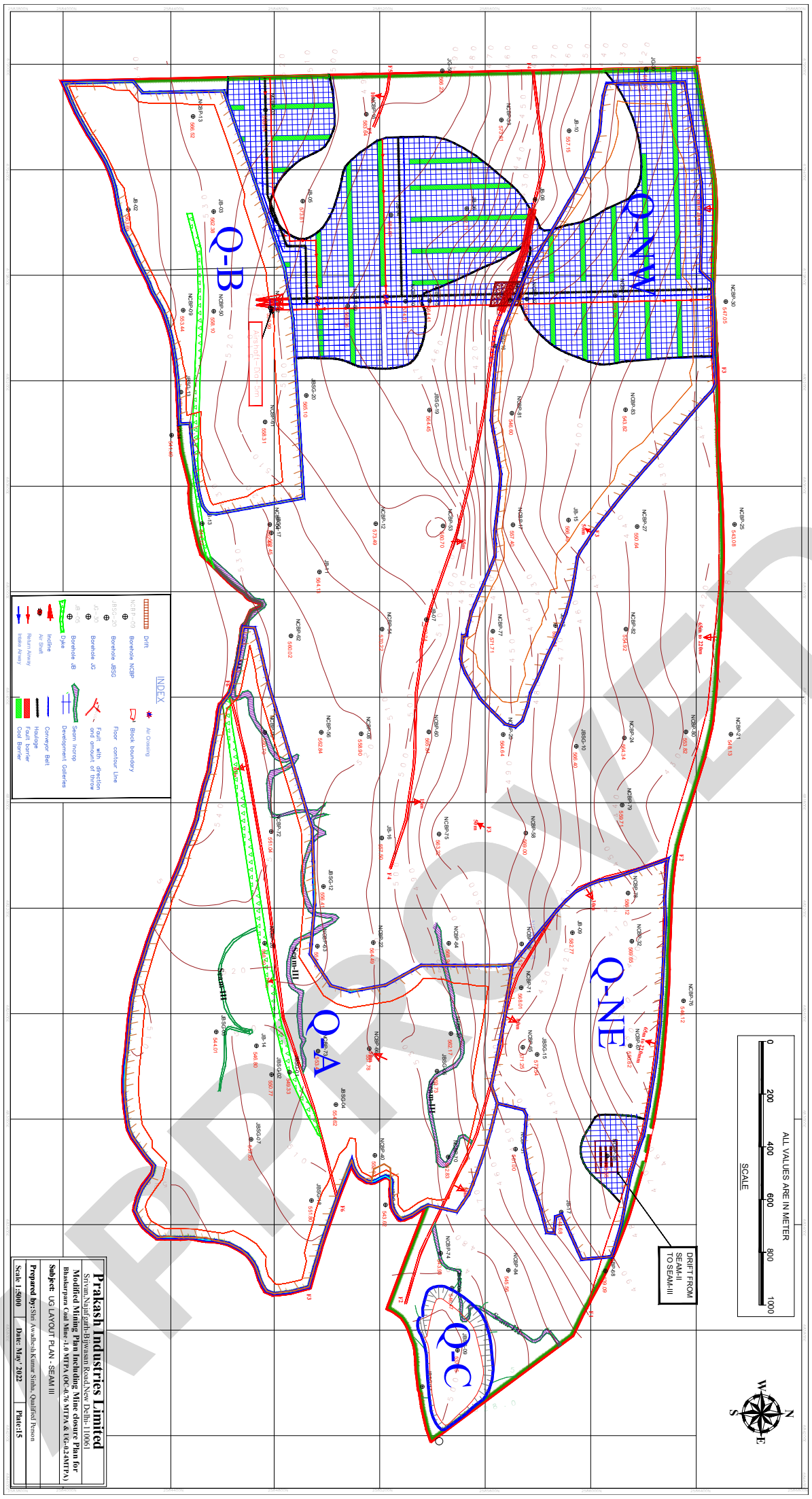
Prepared By Awadhesh Kumar Sinha On 12/05/2022

OC Plate-14



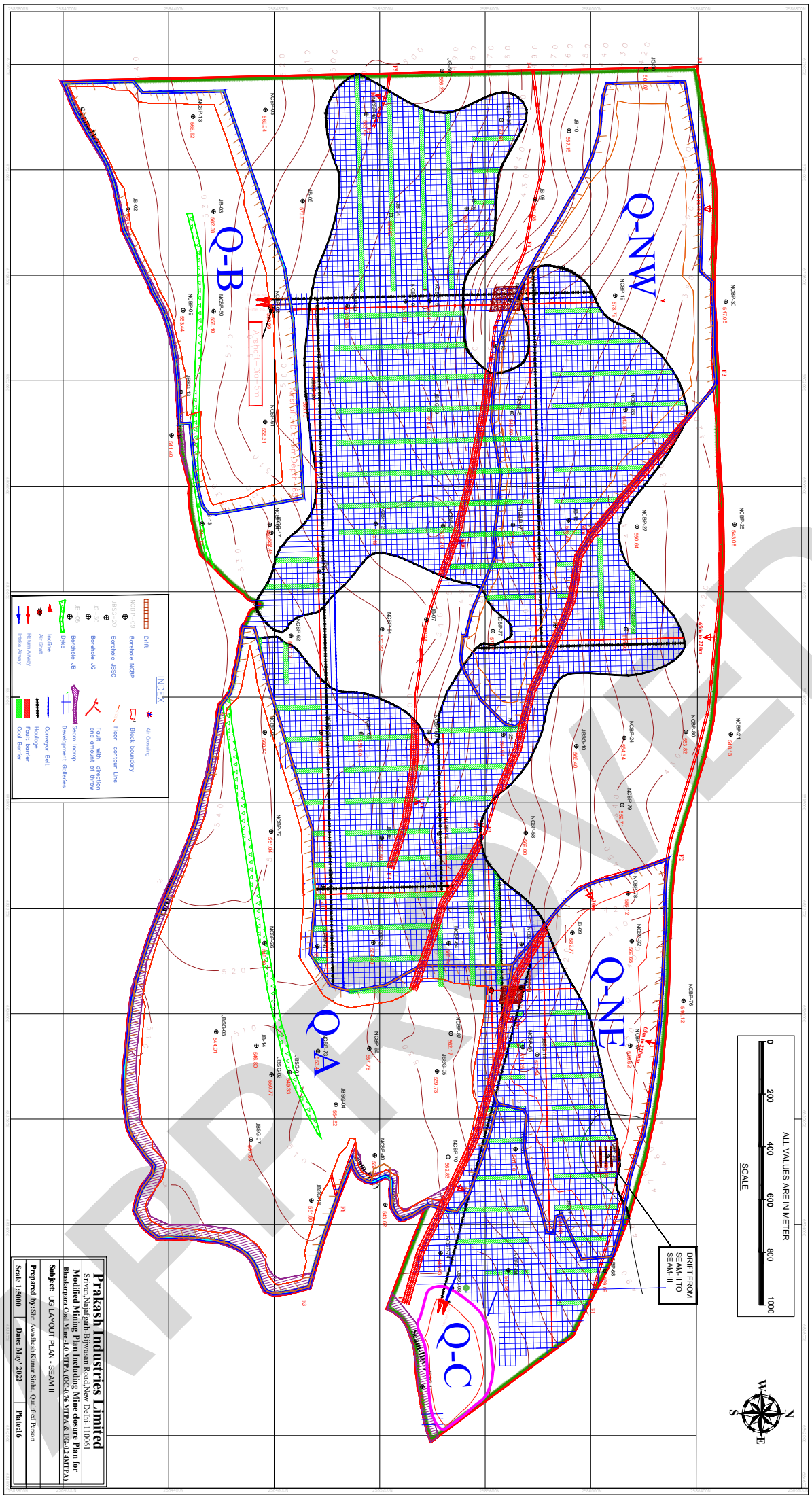
Prepared By Awadhesh Kumar Sinha On 12/05/2022

UG Plate-15



Prepared By Awadhesh Kumar Sinha On 12/05/2022

UG Plate-16



Prepared By Awadhesh Kumar Sinha On 12/05/2022

UG Plate-17

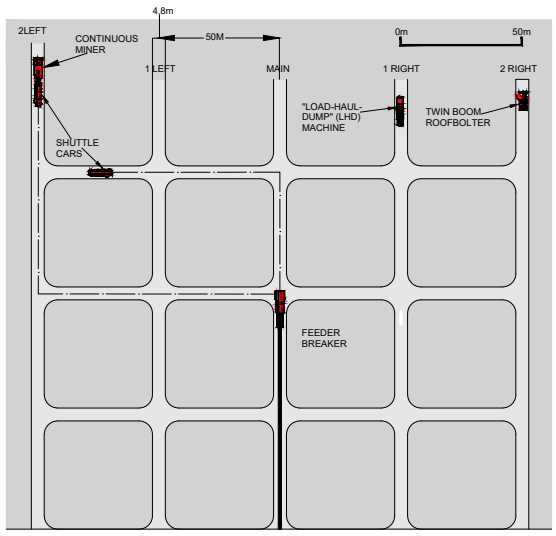


FIG.1 ENTRY MECHANISED ROOM & PILLAR LAYOUT

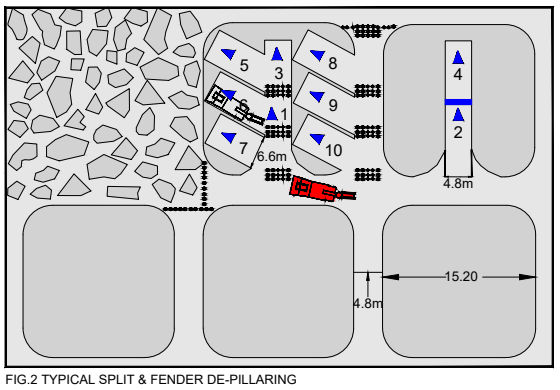


FIG.2 TYPICAL SPLIT & FENDER DE-PILLARING

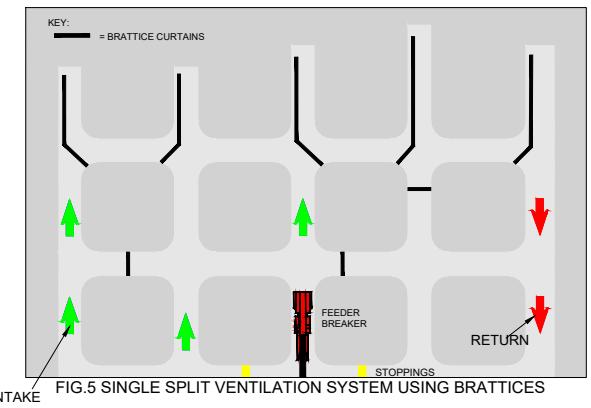


FIG.5 SINGLE SPLIT VENTILATION SYSTEM USING BRATTICES

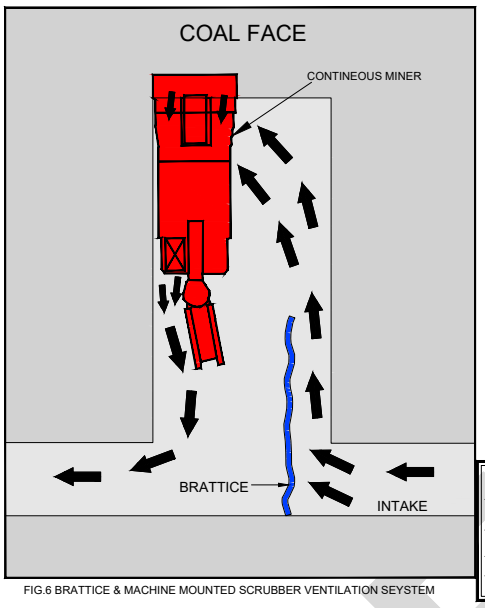


FIG.6 BRATTICE & MACHINE MOUNTED SCRUBBER VENTILATION SEYSTEM

Prakash Industries Limited
Srivan,Najafgarh-Bijwasan Road,New Delhi-110061

Modified Mining Plan Including Mine closure Plan for
Bhaskarpara Coal Mine -1.0 MTPA (OC-0.76 MTPA & UG-0.24MTPA)

Subject: Layout of Pillar Extraction Plan

Prepared by: Shri Awadhesh Kumar Sinha, Qualified Person

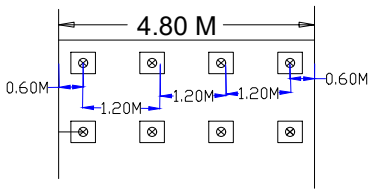
Scale : NTS	Date: May' 2022	Plate:17

Prepared By Awadhesh Kumar Sinha On 12/05/2022

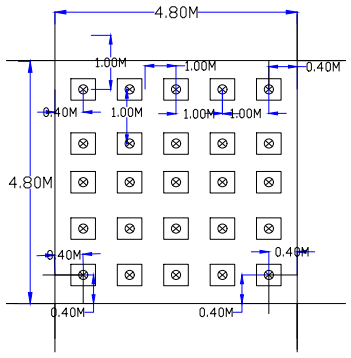
UG Plate-18

SUPPORT IN COAL GALLERY

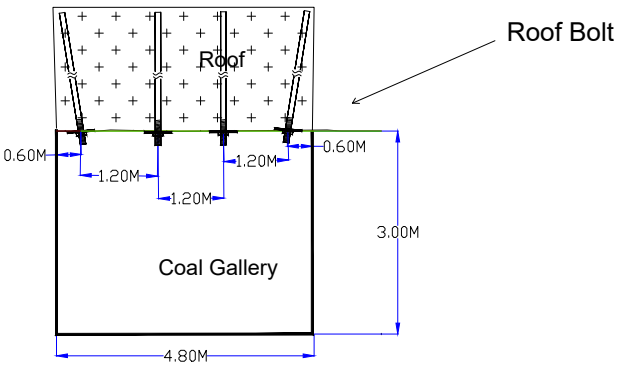
Coal Gallery



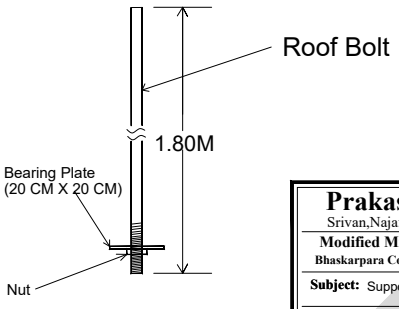
SUPPORT IN COAL GALLERY JUNCTION



Sectional View of Coal Gallery and Roof Bolt Support



DETAILS OF ROOF BOLT
(DIA-20MM)



NOTE:- 1. Roof Bolt of 1.80M height and 20mm diameter will be used for roof support
2.The Resin Capsules will be used to fix the roof bolts in the roof.
3. Bearing Plate of size 20MM X 20MM will be used with roof bolts to strengthen the roof strata

Prakash Industries Limited
Srivan,Najafgarh-Bijwasan Road,New Delhi-110061

Modified Mining Plan Including Mine closure Plan for
Bhaskarpara Coal Mine -1.0 MTPA (OC-0.76 MTPA & UG-0.24MTPA)

Subject: Support Plan

Prepared by: Shri Awadhesh Kumar Sinha, Qualified Person

Scale : NTS | **Date: May' 2022** | **Plate: 18**

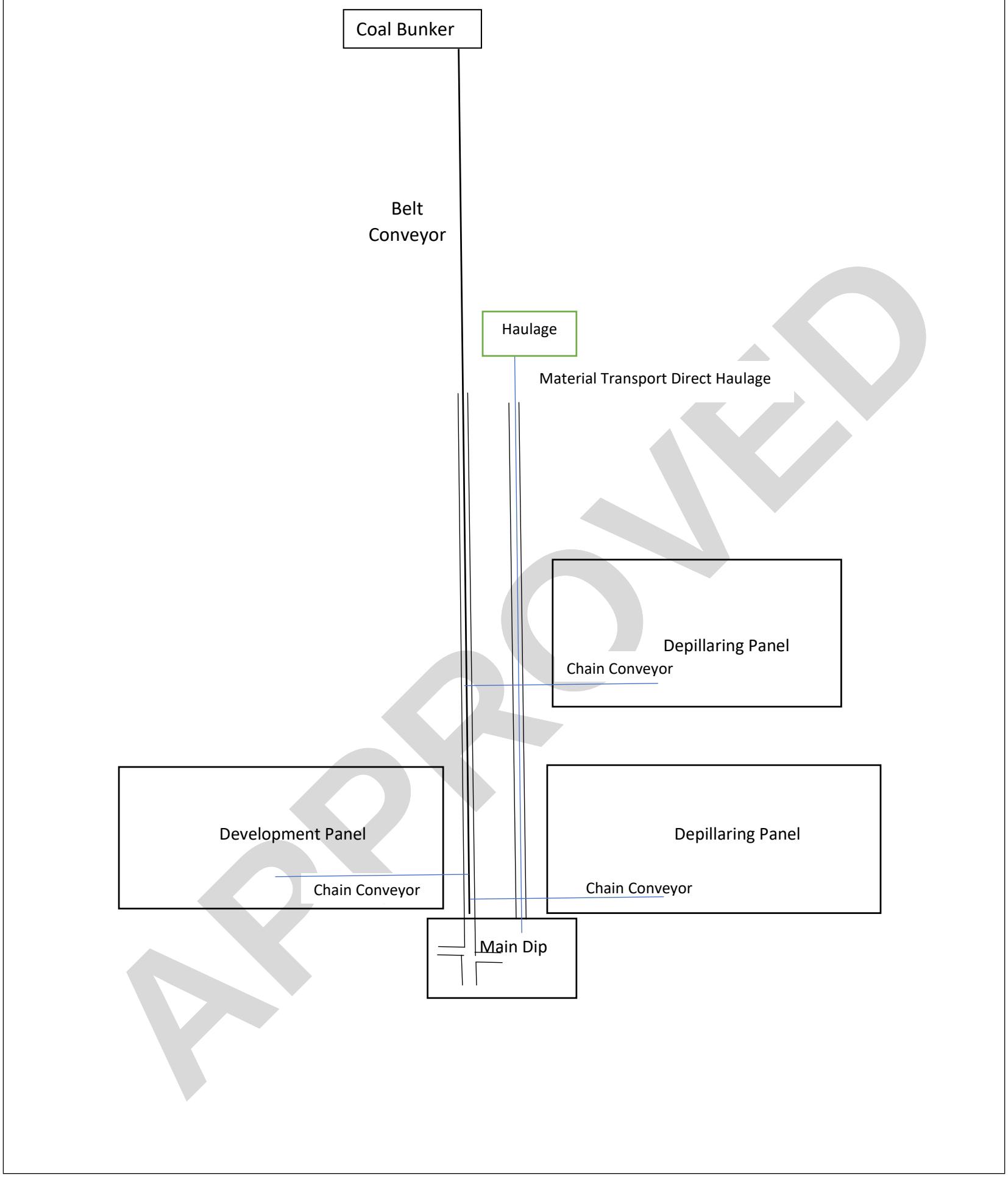
Prepared By Awadhesh Kumar Sinha On 12/05/2022

UG Plate-19

Plate 19

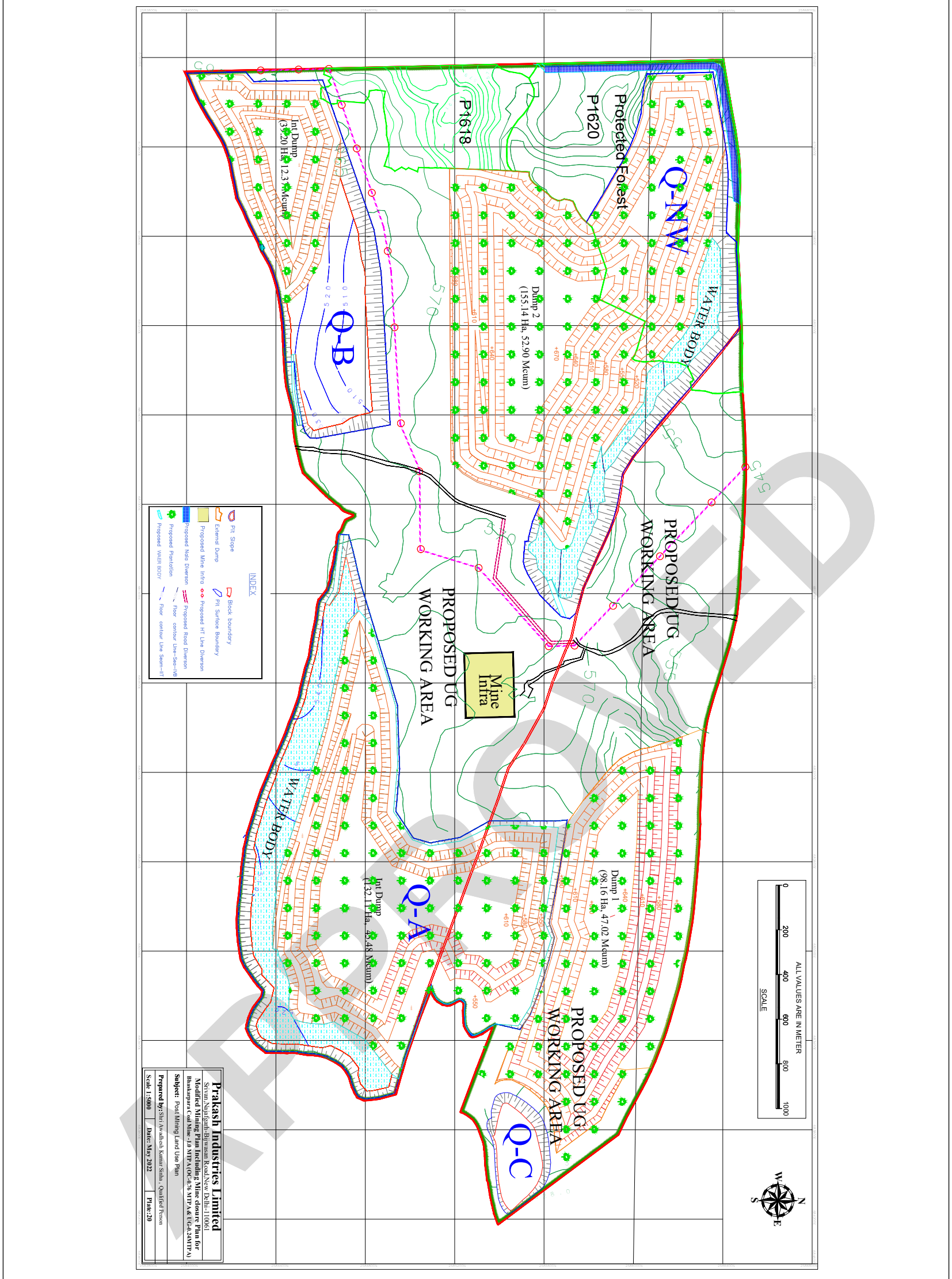
Underground to Surface Coal Transport System

(Indicative Layout, Not to Scale)



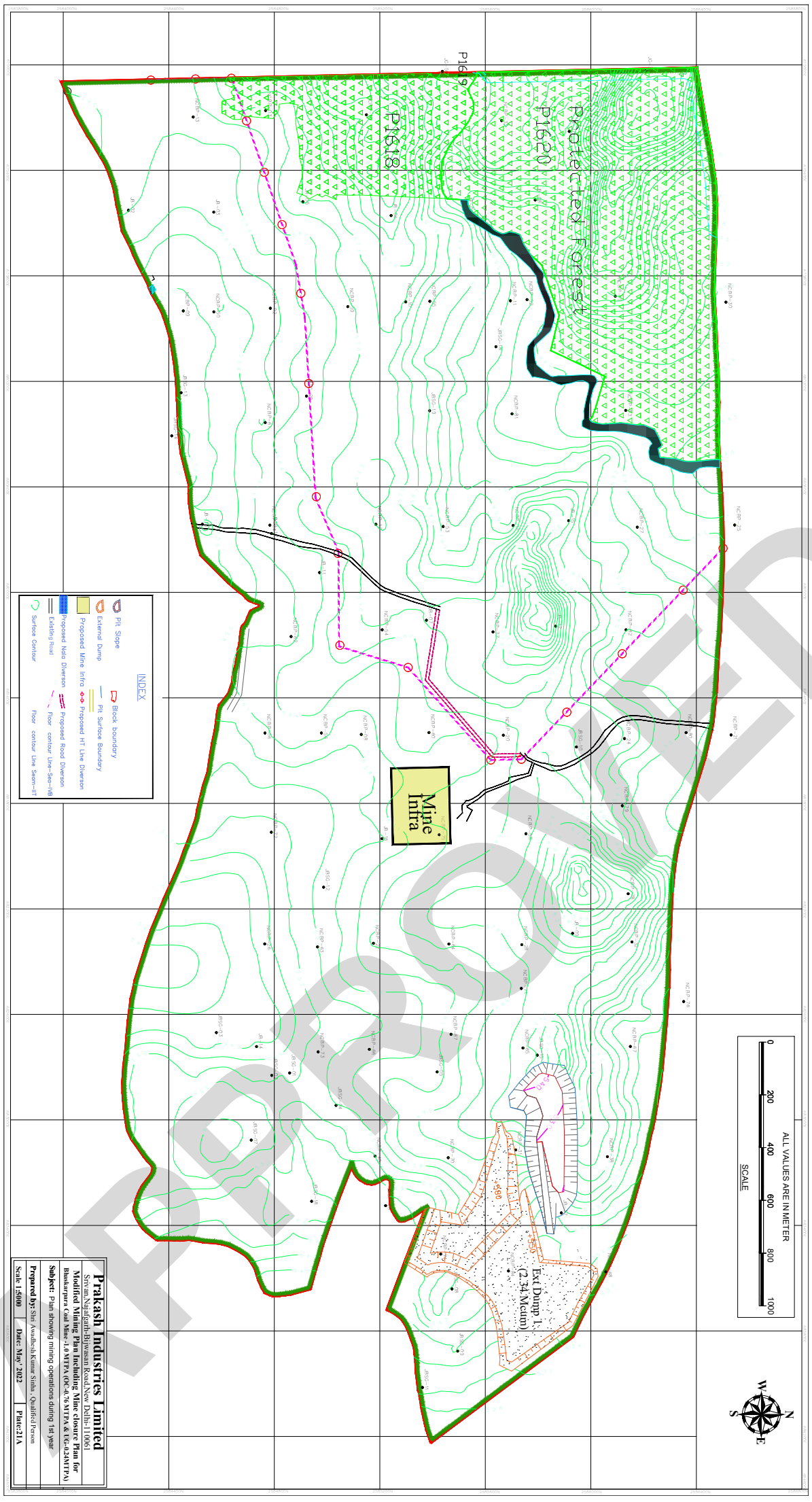
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 20



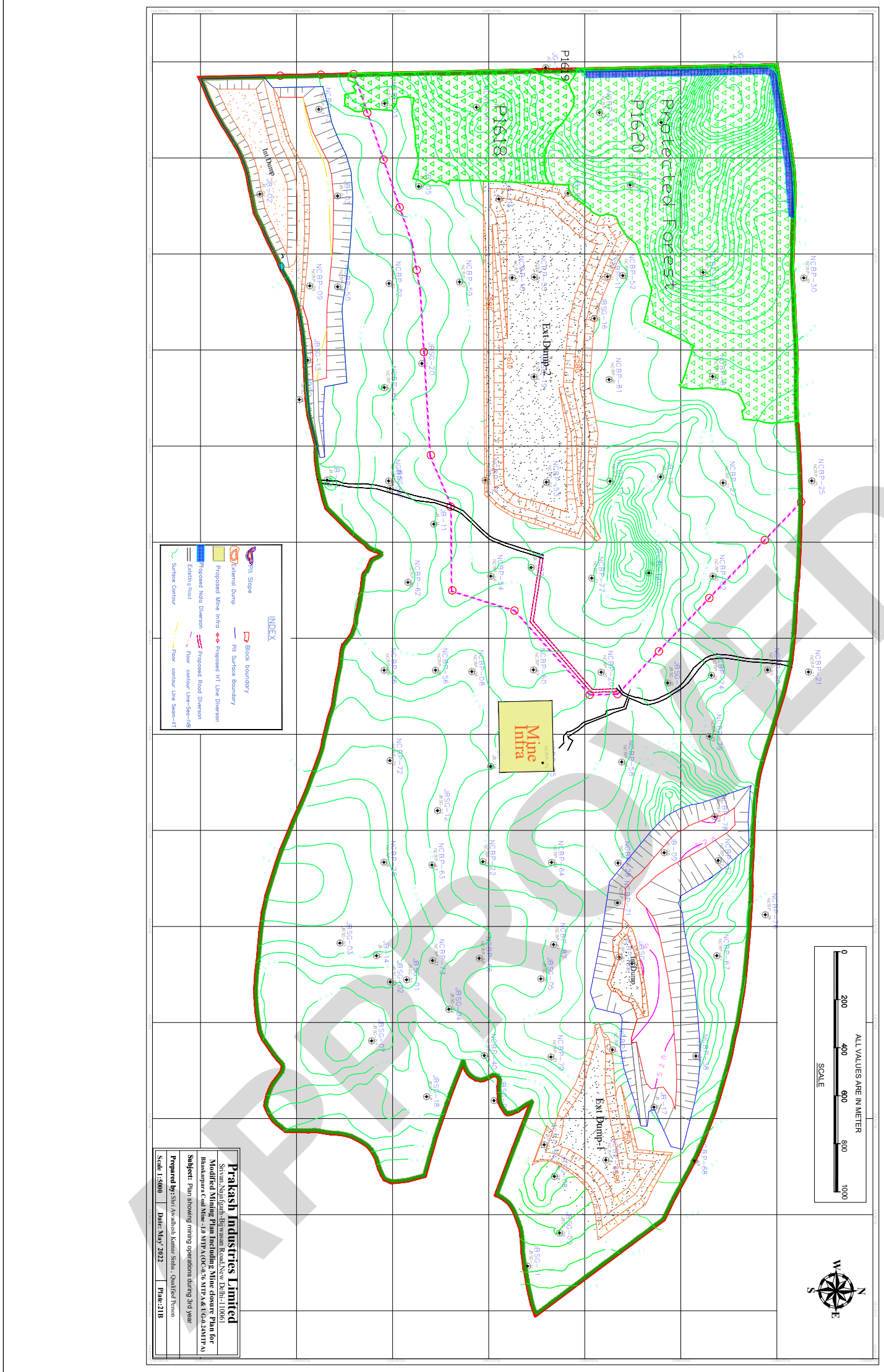
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 21A



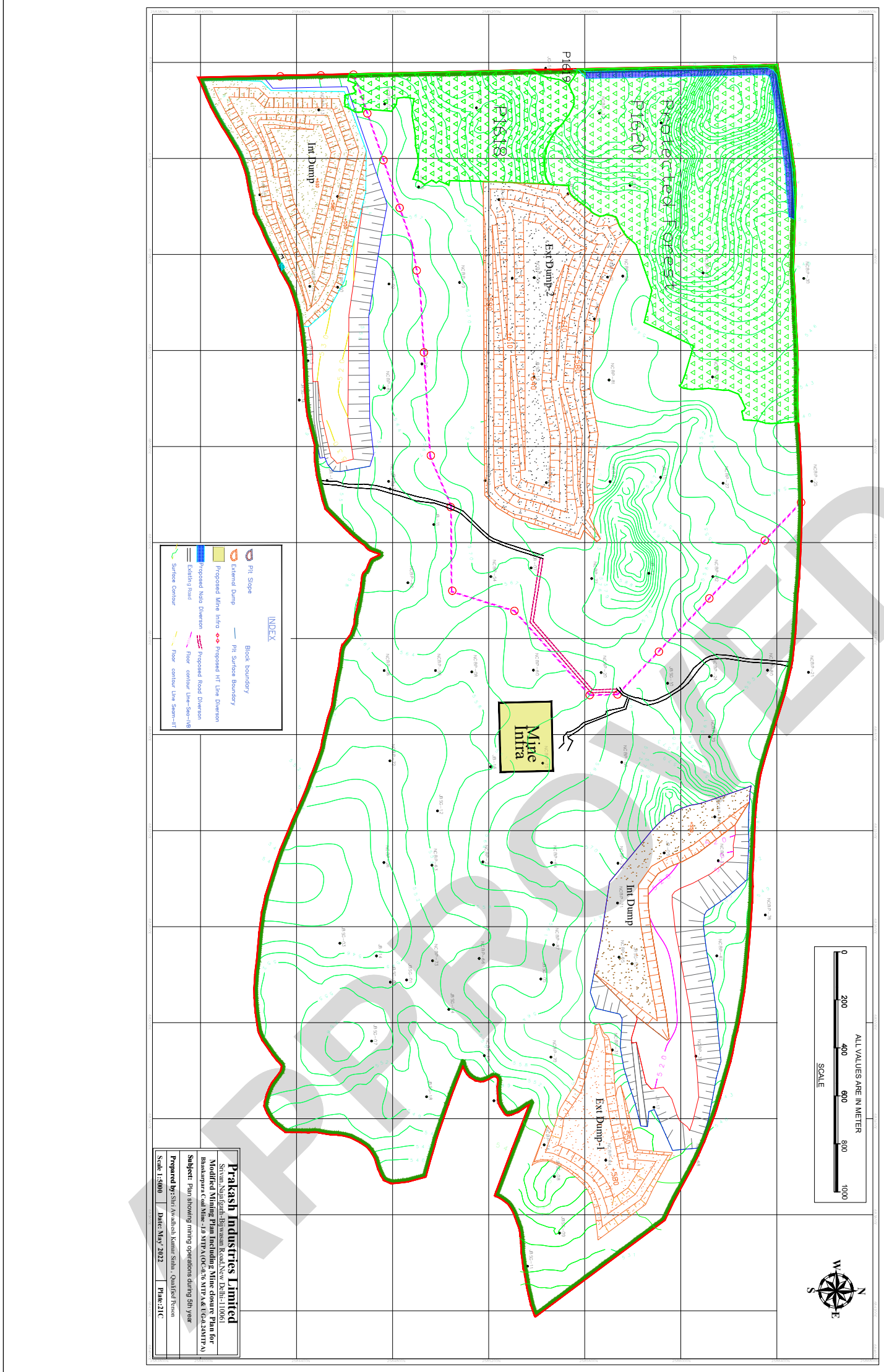
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 21B



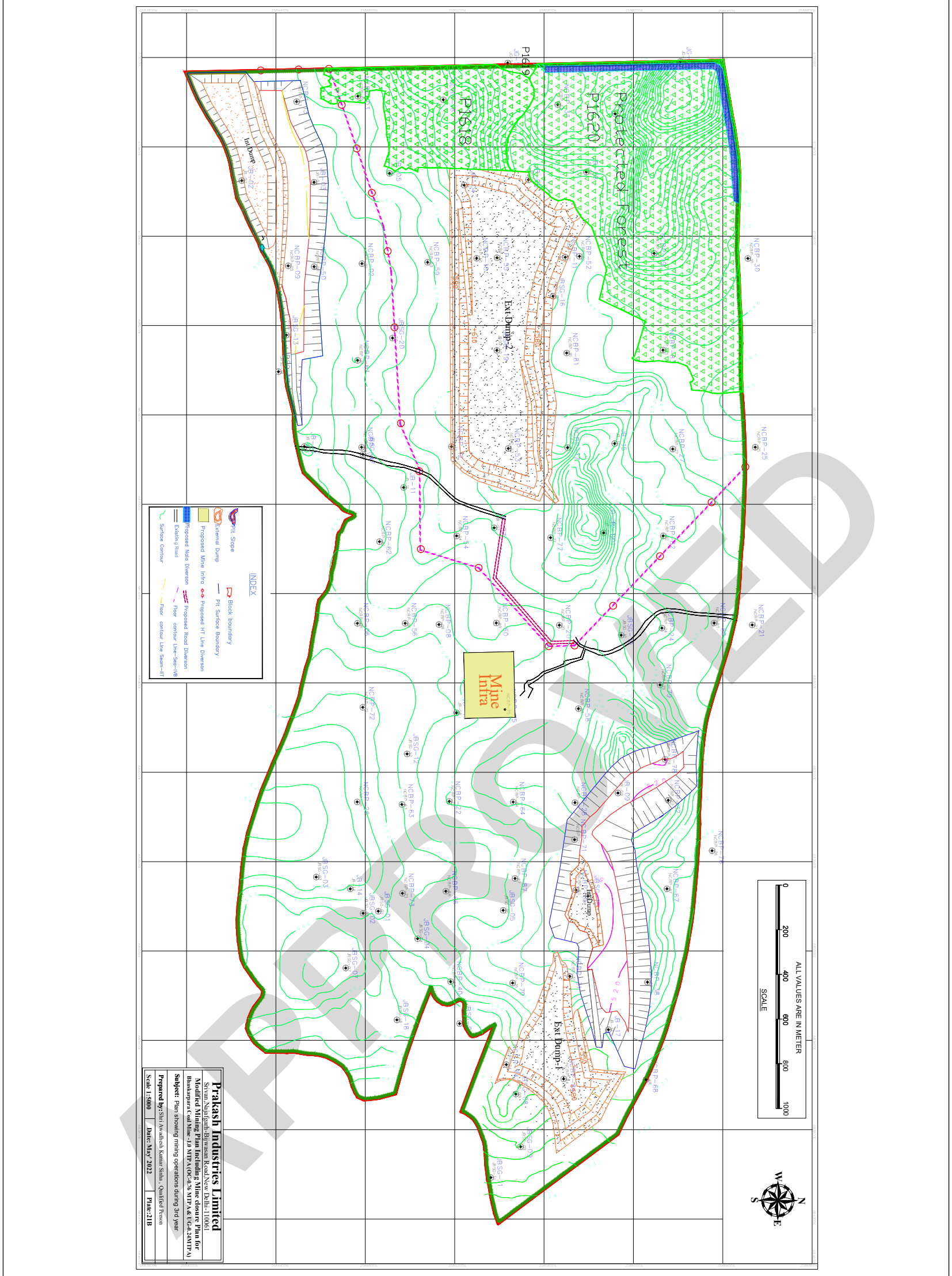
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 21C



Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 21D



Prakash Industries Limited
Sriyan,Najafgarh-Bijwasan Road,New Delhi- 110061

Modified Mining Plan Including Mine closure Plan for
Bhaskarpura Coal Mine -I,0 MTPA(OC-0.76 MTPA & UG-0.24MTPA)

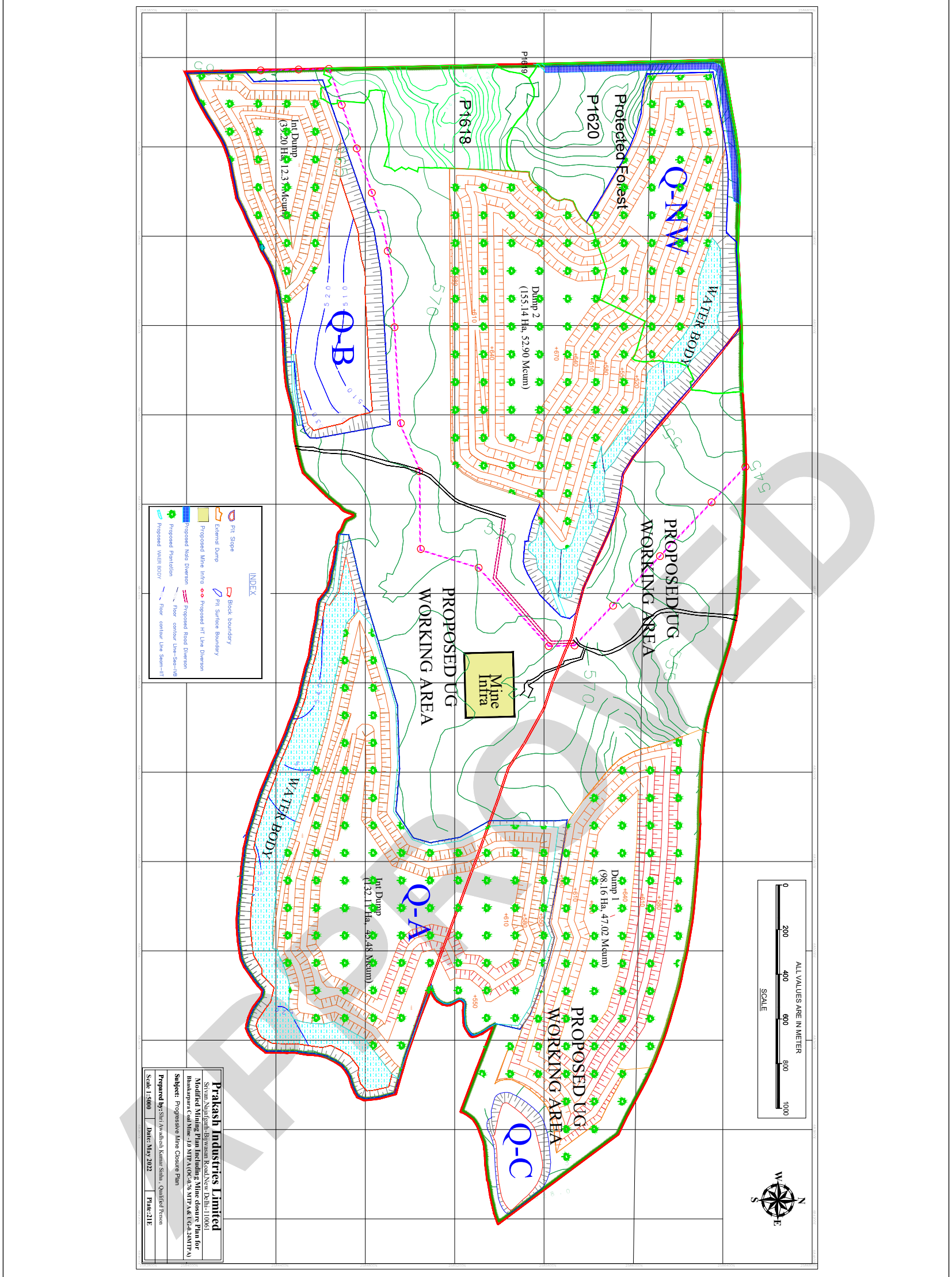
Subject: Plan Showing mining operations during 3rd year

Prepared by: Shri Awadhesh kumar Sinha , Qualified Person

Scale 1:5000	Date: May' 2022
	Plate:21B

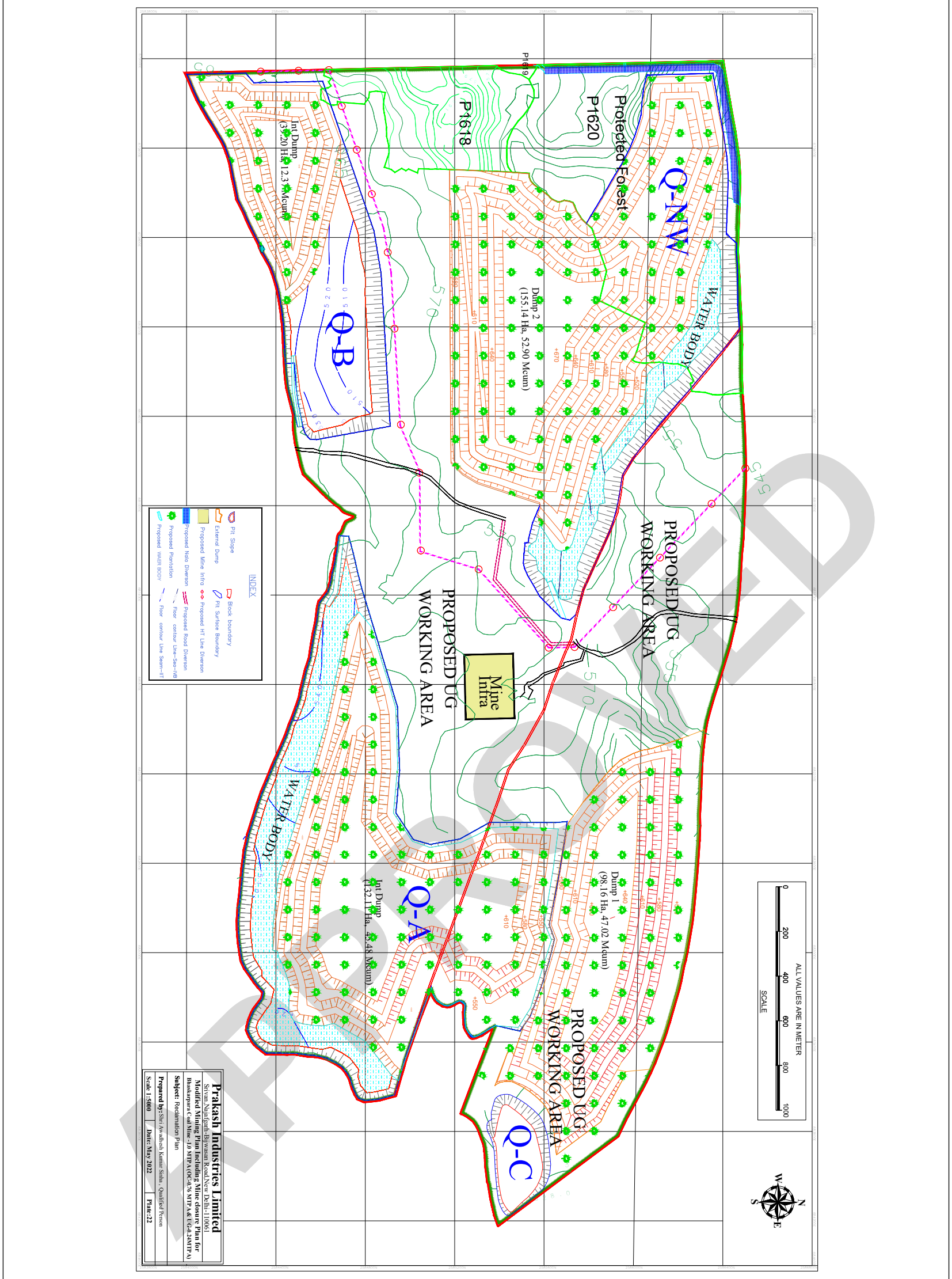
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 21E



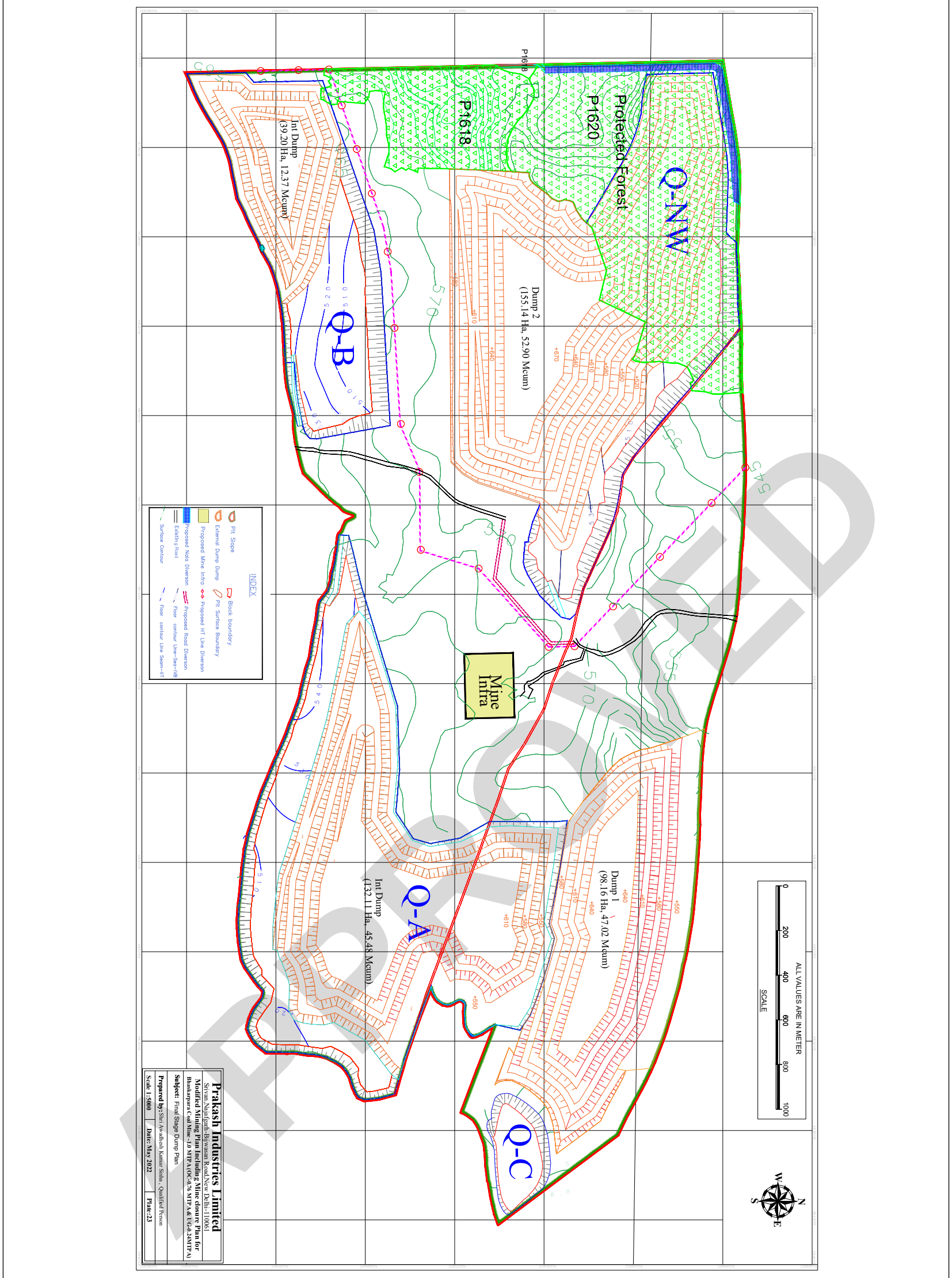
Prepared By Awadhesh Kumar Sinha On 12/05/2022

Plan / Plate 22



Prepared By Awadhesh Kumar Sinha On 12/05/2022

Additonal Plan / Plates-23



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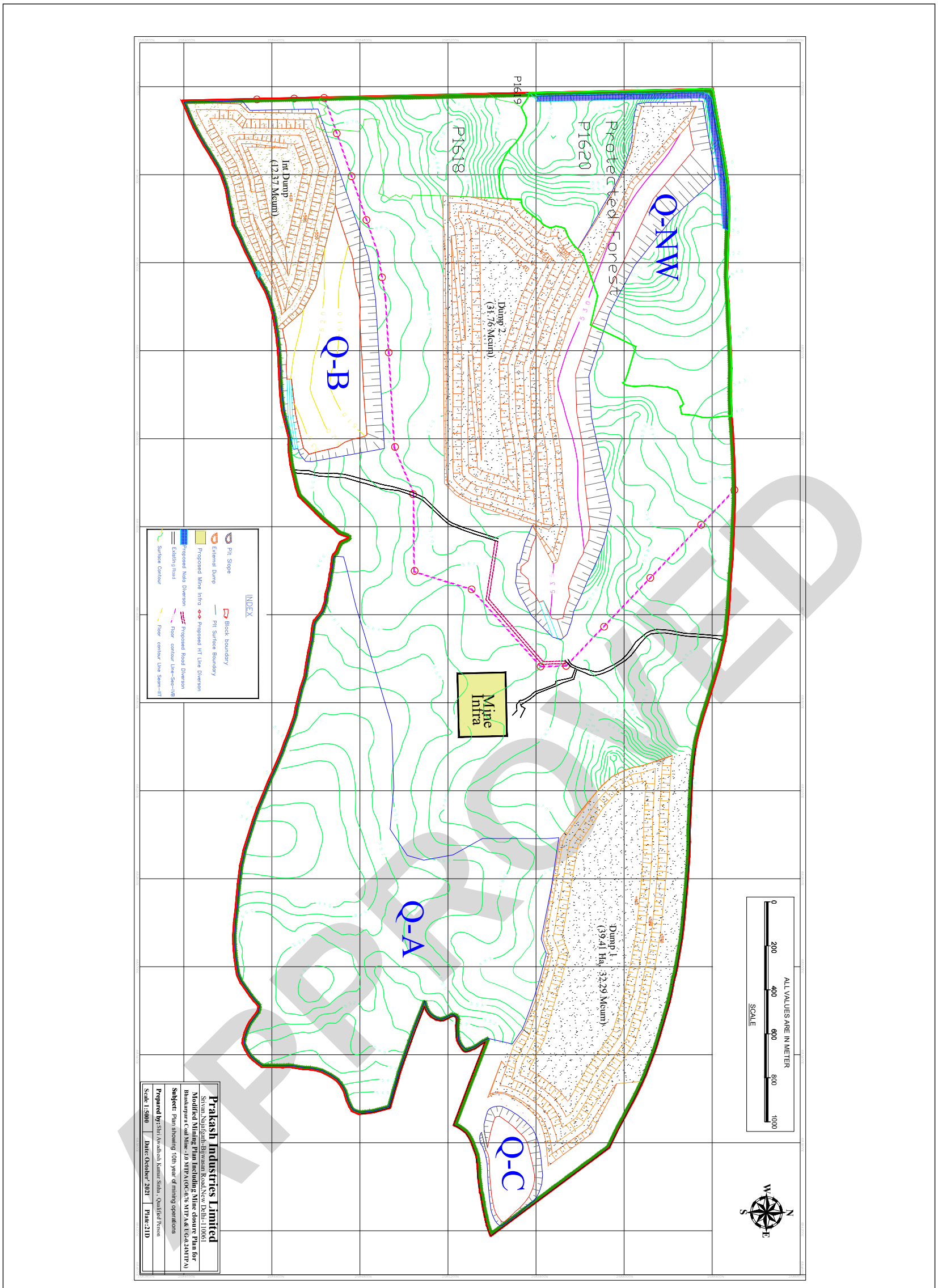
Additonal Plan / Plates-24



Prepared By Awadhesh Kumar Sinha On 12/05/2022