JAGANATHPUR – A COAL BLOCK SUMMARY

PART A

<table>
<tr><th>Sl. No.</th><th>Features</th><th>Details</th></tr>
<tr><td>1.</td><td colspan="2">Location</td></tr>
<tr><td></td><td>Coal Block</td><td>JAGANATHPUR – A</td></tr>
<tr><td></td><td>Coal Field</td><td>Raniganj Coalfield, West Bengal</td></tr>
<tr><td></td><td>Latitude</td><td>23° 37′ 49″ N & 23° 39′ 56″ N (Provisional) | Topo Sheet No. 73 M/2</td></tr>
<tr><td></td><td>Longitude</td><td>87° 20′ 07″ E & 87° 23′ 07″ E (Provisional)</td></tr>
<tr><td></td><td>Villages / Tehsil / Taluka</td><td>Srikrishnapur, Jamgara, Gopeganga, Madhaiganj, Khatgaria, Kendula, Amdahi, Jaganathpur.</td></tr>
<tr><td></td><td>District</td><td>Bardhaman</td></tr>
<tr><td></td><td>State</td><td>West Bengal</td></tr>
<tr><td>2.</td><td colspan="2">Area</td></tr>
<tr><td></td><td>Geological Block Area</td><td>10.3 Sq. km (As per shape file. Refer Note No. 3))</td></tr>
<tr><td></td><td>Mining Lease Area</td><td>1034 hectares (As per mining plan)</td></tr>
<tr><td></td><td>Forest Area</td><td>69.753 hectares (As per mining plan in available land schedule)</td></tr>
<tr><td></td><td>Non Forest Area</td><td>828.350 hectares (As per mining plan in available land schedule)</td></tr>
<tr><td>3.</td><td colspan="2">Exploration</td></tr>
<tr><td></td><td>Status of Exploration</td><td>Explored</td></tr>
<tr><td></td><td>Exploration Agency</td><td>CSIL & GSI</td></tr>
<tr><td></td><td>Total Number of Boreholes</td><td>52 (49 Nos. by CSIL and 3Nos. by GSI)</td></tr>
<tr><td></td><td>Boreholes Meterage</td><td>26640.80 m (As per GR by CSIL) & 1606.65m (By GSI)</td></tr>
<tr><td></td><td>Overall Borehole Density</td><td>5.03 boreholes per sq. km within the block</td></tr>
<tr><td>4.</td><td colspan="2">Amount of Coal</td></tr>
<tr><td></td><td>Geological Reserves</td><td>267.33 MT</td></tr>
<tr><td></td><td>Extractable Reserves</td><td>74.97 MT</td></tr>
<tr><td></td><td>Seam Wise Reserve (As per seams / sections selected for UG Mining in this mining plan)</td><td>
<table>
<tr><th>Seam</th><th>Geological (MT)</th><th>Extractable (MT)</th><th>Method</th></tr>
<tr><td>R-IX</td><td>30.87</td><td>10.32</td><td rowspan="9">B&P Method of Mining with CM/LHD/SDL)</td></tr>
<tr><td>R-VII</td><td>30.34</td><td>9.03</td></tr>
<tr><td>R-VII(A+B)</td><td>14.13</td><td>3.24</td></tr>
<tr><td>R-V(Top)</td><td>48.67</td><td>14.49</td></tr>
<tr><td>R-V(Bot)</td><td>30.80</td><td>7.97</td></tr>
<tr><td>R-IV</td><td>24.09</td><td>9.19</td></tr>
<tr><td>R-III/II</td><td>73.8</td><td>20.16</td></tr>
<tr><td>Total</td><td>252.70</td><td>74.97</td></tr>
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</td></tr>
<tr><td>5.</td><td colspan="2">Coal Seams</td></tr>
<tr><td></td><td>Dip of Seam</td><td>Gradient generally varies from 4° to 5° (Southerly to South Easterly) with general tendency of becoming gentler towards south.</td></tr>
<tr><td></td><td>Direction of Strike</td><td>General Trend of strata is almost E-W with local variation in the trend towards NE-SW.</td></tr>
<tr><td></td><td>Thickness of Coal Seams</td><td>
<table>
<tr><th>Seam</th><th>Thickness Rang(m)</th></tr>
<tr><td>R-IX</td><td>0.48 – 3.35</td></tr>
<tr><td>R-VIII(T)</td><td>0.30 – 3.79</td></tr>
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		R-VIII(B)	0.59 – 2.40	
		R-VII	1.37 – 3.09	
		R-VII(A+B)	0.68 – 2.75	
		R-VIII(C)	0.06 – 1.59	
		Local	0.19 – 3.93	
		R-V(Top)	1.85 – 4.75	
		R-V(Bot)	0.94 – 3.54	
		R-IV	0.46 – 3.73	
		R-III/II	3.28 -8.84	
	Partings	Seam	Parting with underlying seam (m)	
		R-IX	19.25 – 79.90	
		R-VIII(T)	10.90 – 57.60	
		R-VIII(B)	28.80 – 63.04	
		R-VII	9.29 – 23.65	
		R-VII(A+B)	25.21 – 59.60	
		R-VIII(C)	18.15 – 68.36	
		Local	14.10 – 73.82	
		R-V(Top)	1.72 – 18.48	
		R-V(Bot)	2.20 – 30.80	
		R-IV	48.22 – 75.22	
		R-III/II		
	Faults	**Name of Fault**	**Throw (m)**	
		F1	140	
		F2	160-230	
		F3	90	
		F4	40-160	
		F5	90 (Segment of F3)	
		F6	70	
		F7	40	
		F8	170	
		F9	70-110	
		F10	0 - 65	
		F11	200	
		F12	70	
		F13	35	
		F14	0 – 65 (Segment of F10)	
		F15	65	
		F16	25	
		F17	0 - 30	
		F18	40 - 110	
		F19	40-110	
		F20	40	

<table>
<tr><td>6.</td><td colspan="2">Grade</td></tr>
<tr><td></td><td>Quality (Grade) of coal as per Mining Plan</td><td>
<table>
<tr><th>Seam</th><th>Grade Range</th></tr>
<tr><td>R-IX</td><td>F – D</td></tr>
<tr><td>R-VIII(T)</td><td>G – F</td></tr>
<tr><td>R-VIII(B)</td><td>C – B</td></tr>
<tr><td>R-VII</td><td>G - E</td></tr>
<tr><td>R-VII(A+B)</td><td>F - D</td></tr>
<tr><td>R-VIII(C)</td><td>D - C</td></tr>
<tr><td>Local</td><td>F</td></tr>
<tr><td>R-V(Top)</td><td>D - B</td></tr>
<tr><td>R-V(Bot)</td><td>G - D</td></tr>
<tr><td>R-IV</td><td>F - B</td></tr>
<tr><td>R-III/II</td><td>D - B</td></tr>
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</td></tr>
<tr><td>7.</td><td colspan="2">Accessibility</td></tr>
<tr><td></td><td>Nearest Rail Head Distance</td><td>The nearest railway station is Durgapur (20km).</td></tr>
<tr><td></td><td>Road</td><td>The block is located 12 km away from NH-2 and is well connected by road. 6km from Jhanjra in the northern side.</td></tr>
<tr><td></td><td>Airport Distance</td><td>Kolkata Airport</td></tr>
<tr><td>8.</td><td colspan="2">Hydrography</td></tr>
<tr><td></td><td>Local Surface Drainage Channels</td><td>The main drainage of the block is controlled by the Ajay River located about 2 to 3 km north and north east of the block.</td></tr>
<tr><td></td><td>Rivers/ Nala</td><td>Tumni nala is flowing 0.5km in the east of the block</td></tr>
<tr><td>9.</td><td colspan="2">Climate</td></tr>
<tr><td></td><td>Average Annual Rainfall</td><td>Around 1200 mm(As per Mining Plan)</td></tr>
<tr><td></td><td>Temperatures (Min)</td><td>30^{o}C (As per Mining plan)</td></tr>
<tr><td></td><td>Temperatures (Max)</td><td>40^{o}C(As per Mining Plan)</td></tr>
<tr><td>10.</td><td colspan="2">Topography</td></tr>
<tr><td></td><td>Topo Sheet Number</td><td>73M/2</td></tr>
<tr><td></td><td>Nature of Surface Land</td><td>The area displays a gentle undulating topography with elevations ranging from 59m to 83m above mean sea level. The elevation increases in westward direction. The major part of the block is covered by soil / alluvium and forms the drainage of the area.</td></tr>
<tr><td>11.</td><td colspan="2">Other Infrastructure</td></tr>
<tr><td></td><td>Coal Handling Plant Capacity</td><td>As per mining plan, there will be surface CHP having 4 nos of bunker 4 x 100 Te capacity with occasionally ground stacking arrangement.</td></tr>
<tr><td></td><td>Coal Washery Capacity</td><td>No coal beneficiation process is proposed.</td></tr>
<tr><td></td><td>Transport from Mine</td><td>The coal from surface CHP will be sent to nearest Pandweshwar Railway Siding located around 10.5km from mine site by truck.</td></tr>
<tr><td></td><td>Power Supply</td><td>The required 8 MW power supply at 33KV will be drawn from the nearest the nearest sub-station. For Emergency power requirement a set of 100KVA and 500KVA DG set have been proposed in the mining plan for mine ventilation, pumping & other emergency services.</td></tr>
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PART B

Sr. No.	Features	Details
1.	**Previous Allocation**	
	Name of Allocatee	West Bengal Mineral Development and Trading Corporation Limited (WBMDTCL)
	Address	West Bengal Mineral Development and Trading Corporation Limited (WBMDTCL) 13, Nelli Sengupta Sarani (Lindsay Street) 2nd Floor, Post Box No : 9026, Kolkata-700087, India
	Nature of End Use	The allocation has been made under commercial mining for various Iron & Steel Plant.
2.	**Status of Mineral Exploitation**	
	Method of Mining	Underground mining (Bord & Pillar)
	Coal Extracted	NIL
	Mine Plan Extraction Rate	0.6 MTPA from 3rd year by underground mining up to 127 years (As per mining plan)
	Average Stripping Ratio	N/A
	Mining Agency	Jai Balaji Industries Limited (As this company has received GR of the said Block) (as per annexure with the Mining Plan)
3.	**Status of Clearances/Approvals**	
	Mining Plan (Reference to Grant)	N.A.
	Forest Clearance (Reference to Grant)	N.A.
	Environmental Clearance (Reference to Grant)	N.A.
	Land Required	1034 Ha
	Land Acquired	N.A.
	R&R	No shifting of villages/houses is envisaged. 122 land looser will be affected for 31.688 Ha of land (As per Mining Plan)

Note:

1. The above data is compiled from Geological Report, Mining Plan and the data furnished by the prior allottee in Annexure-I/II, as available. For clarifications with regard to above data, please refer aforesaid source documents.

2. The boundary of the block has been taken from GR after conversion to WGS84 system by feature matching. The block boundary is provisional and the cardinal points, bounding co-ordinates are approximate.

3. There is a difference in area in the shape file and GR. Area in the shape file is based on feature mapped plan of the block as given in the GR. So, the area is tentative and field DGPS survey is required to ascertain the exact area.