

**GARE PALMA IV/6 COAL BLOCK SUMMARY
PART A**

| Sr. No | Features | Details |
|-----------------------------------|---------------------------------|---|
| 1. Location | | |
| | Coal Block | Gare Palma IV/6 |
| | Latitude | 22° 08' 00" N – 22° 09' 50" N (Provisional) |
| | Longitude | 83° 28' 57" E – 83° 30' 16" E (Provisional) |
| | Topo Sheet No. | 64 N/12 |
| | Coalfield | Mand Raigarh |
| | Villages | Nil |
| | Tehsil/Taluka | Gharghora |
| | District | Raigarh |
| | State | Chhattisgarh |
| 2. Connectivity with Block | | |
| | Nearest Rail Head | Raigarh is the nearest railhead on the Howrah-Mumbai line of the South East Central Railway. |
| | Road | Gare Palma IV/6 sub-block is connected with the district headquarter, Raigarh, located about 45 km south east of the area by an all-weather road via Tamnar joining S.H.-1 at Punji Patra at a distance of about 23km from Raigarh. |
| | Airport | |
| 3. Area | | |
| | Geological Block Area | 3.82 sq.km. (As per shape file. Refer note below) 3.81 sq.km. (As per GR) |
| | Forest Area | Approx. 10% (As per FSI Map) |
| | Non-Forest Area | 90 % |
| 4. Climate and Topography | | |
| | Average Annual Rainfall | 2200.8 mm |
| | Temperature (Min. — Max.) | 7° - 48° |
| | Local Surface Drainage Channels | The drainage of the area is controlled by Kelo river which is tributary of Mand River. There are also local streams/nalas within the block that drain into Kelo River. |
| | Rivers | Kelo river marking the South Western boundary. |
| 5. Exploration | | |
| | Status | Explored in Detail |
| | Exploration Agency | CMPDIL |

| | | | | | |
|------------|---|--|-----------------|-------------------------|-------|
| | Total Number of Boreholes with meterage | 31 Boreholes; 4461.00 m | | | |
| | Borehole Density | Approx. 8 Boreholes /sq.km. | | | |
| | General Dip of Seams | 2°-4° towards south west. | | | |
| | General Strike Direction | NW-SE | | | |
| 6. | Coal Seams & Reserve | | | | |
| | Coal Seams | Thickness Range (m) | Depth Range (m) | Geological Reserve (MT) | Grade |
| | IX | 2.70-5.34 | Incrop-47.40 | 16.6403 | E-F |
| | VIII | 1.99-6.15 | Incrop-60.26 | 21.5056 | F-G |
| | VII | 1.25-7.60 | Incrop-80.19 | 25.9032 | F-UG |
| | VI | 1.93-4.60 | Incrop-95.36 | 18.8243 | E-G |
| | V Top | 0.85-1.55 | 52.30-140.20 | - | E-G |
| | IV | 2.46-3.92 | 92.50-186.50 | 15.5632 | E-F |
| | III | 1.06-3.75 | 178.15-262.82 | 14.0073 | D-F |
| | II | 4.20-5.75 | 230.25-317.74 | 27.4714 | D |
| | I | 3.90-6.91 | 278.73-365.63 | 27.0704 | B-C |
| | | Total | | 166.9858 | |
| 7. | Surface Constraints | NA | | | |
| 8. | Grade of the block | G10 (Provisional) based on weighted average grade as per data available in GR. | | | |
| 9. | Decision Support System (DSS) Analysis | The polygon touches major river(s)- Kelo River, Wildlife Habitat(s)- Sloth bear & Dhole | | | |
| 10. | Eco Sensitive Zone (ESZ) Analysis | Approx. 37.6 km to the buffer zone of Lemru Elephant Reserve from the North-western block boundary, 45.3 km to the Debigarh ESZ from the Southern block boundary and 58 km to the Sambalpur Elephant Region from the South-eastern block boundary. | | | |

PART B

| Sl. No. | Features | Details |
|-----------|--|---|
| 1. | Previous Allocation | |
| | Name and Address of Allocatee | Jindal Steel & Power Limited & Nalwa Sponge Iron Ltd. |
| 2. | Mine Capacity as per Mining Plan | 4.0 Mty |
| 3. | Status of Clearances/Approvals (As per the information submitted by the prior allottee) | |
| | Mining Plan/ Mine Closure Plan | Approved |
| | Forest Clearance | Granted |
| | Environmental Clearance | Granted |
| | Mining Lease | Not granted |
| | Land Acquisition | 119.506 Ha acquired |

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 coordinates 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.

Disclaimer:

1. The analysis is done on Beta-version (Trial Version) of Decision Support System (DSS) of FSI/MOEF.
2. The Decision Rules for various parameters of this DSS System are controlled by FSI.
3. CMPDI only runs this DSS to obtain the status of any block based on these Decision Rules.
4. The database of the Decision Rules is updated by FSI from time to time.
5. CMPDI does not own any responsibility for variation in the results which are based on the decision Rules of the FSI DSS in case of any update of the database at FSI end.
6. ESZ analysis and tiger habitat/ corridor given here is based on the information available in public domain. Bidders are encouraged to verify this information and any other information additionally available.

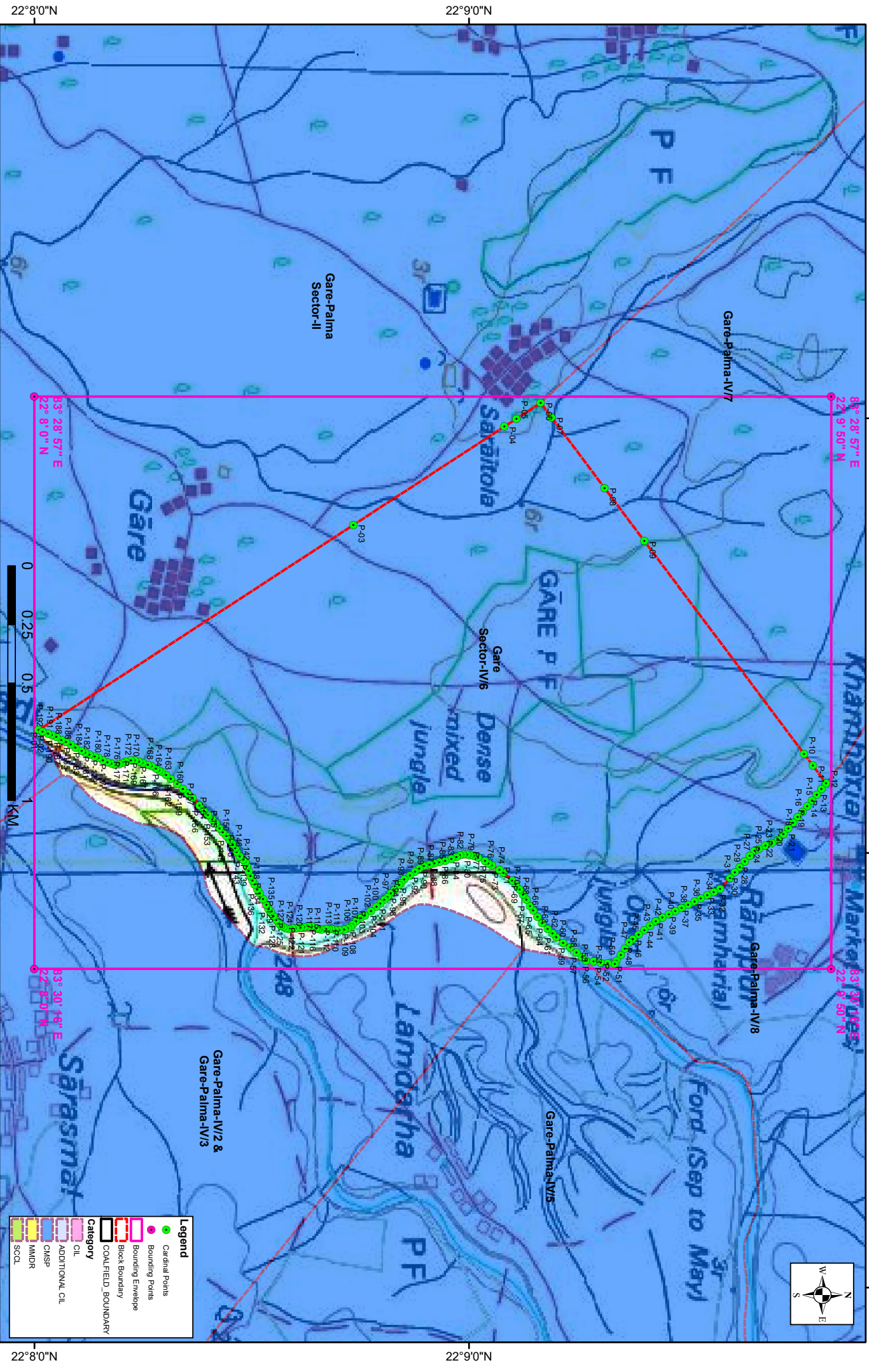
Gare Sector-IV/6 Block, Mand Raijgarh Coalfield

FOR INTERNAL/RESTRICTED USE ONLY

83°29'0"E

83°30'0"E

83°31'0"E



Note: The map is prepared on WGS84 coordinate system.

83°29'0"E

83°30'0"E

83°31'0"E

22°8'0"N

22°9'0"N



Provisional Co-ordinates of Cardinal Points for Gare Sector IV/6

| Point No. | Longitude (WGS84) | Latitude (WGS84) |
|------------------|--------------------------|-------------------------|
| P-1 | 83° 29' 43.287" E | 22° 8' 1.153" N |
| P-2 | 83° 29' 43.024" E | 22° 8' 0.597" N |
| P-3 | 83° 29' 14.713" E | 22° 8' 44.047" N |
| P-4 | 83° 29' 1.132" E | 22° 9' 4.889" N |
| P-5 | 83° 29' 0.044" E | 22° 9' 6.558" N |
| P-6 | 83° 28' 57.871" E | 22° 9' 9.892" N |
| P-7 | 83° 28' 59.858" E | 22° 9' 11.383" N |
| P-8 | 83° 29' 9.642" E | 22° 9' 18.725" N |
| P-9 | 83° 29' 16.979" E | 22° 9' 24.233" N |
| P-10 | 83° 29' 46.334" E | 22° 9' 46.259" N |
| P-11 | 83° 29' 47.965" E | 22° 9' 47.483" N |
| P-12 | 83° 29' 50.409" E | 22° 9' 49.320" N |
| P-13 | 83° 29' 51.185" E | 22° 9' 48.666" N |
| P-14 | 83° 29' 51.962" E | 22° 9' 48.012" N |
| P-15 | 83° 29' 52.742" E | 22° 9' 47.358" N |
| P-16 | 83° 29' 53.516" E | 22° 9' 46.704" N |
| P-17 | 83° 29' 54.294" E | 22° 9' 46.050" N |
| P-18 | 83° 29' 55.071" E | 22° 9' 45.396" N |
| P-19 | 83° 29' 55.847" E | 22° 9' 44.742" N |
| P-20 | 83° 29' 56.625" E | 22° 9' 44.089" N |
| P-21 | 83° 29' 57.402" E | 22° 9' 43.435" N |
| P-22 | 83° 29' 58.242" E | 22° 9' 42.732" N |
| P-23 | 83° 29' 58.636" E | 22° 9' 41.826" N |
| P-24 | 83° 29' 59.032" E | 22° 9' 40.922" N |
| P-25 | 83° 29' 59.428" E | 22° 9' 40.019" N |
| P-26 | 83° 29' 59.690" E | 22° 9' 39.433" N |
| P-27 | 83° 30' 0.440" E | 22° 9' 38.749" N |
| P-28 | 83° 30' 1.192" E | 22° 9' 38.071" N |
| P-29 | 83° 30' 1.945" E | 22° 9' 37.393" N |
| P-30 | 83° 30' 2.698" E | 22° 9' 36.714" N |
| P-31 | 83° 30' 3.450" E | 22° 9' 36.036" N |
| P-32 | 83° 30' 4.963" E | 22° 9' 34.684" N |
| P-33 | 83° 30' 5.404" E | 22° 9' 33.792" N |
| P-34 | 83° 30' 5.847" E | 22° 9' 32.908" N |
| P-35 | 83° 30' 6.291" E | 22° 9' 32.024" N |
| P-36 | 83° 30' 6.734" E | 22° 9' 31.140" N |
| P-37 | 83° 30' 7.178" E | 22° 9' 30.256" N |
| P-38 | 83° 30' 7.623" E | 22° 9' 29.371" N |
| P-39 | 83° 30' 8.065" E | 22° 9' 28.487" N |
| P-40 | 83° 30' 8.509" E | 22° 9' 27.603" N |
| P-41 | 83° 30' 8.952" E | 22° 9' 26.719" N |
| P-42 | 83° 30' 9.396" E | 22° 9' 25.835" N |
| P-43 | 83° 30' 9.431" E | 22° 9' 25.794" N |
| P-44 | 83° 30' 10.047" E | 22° 9' 24.994" N |
| P-45 | 83° 30' 10.669" E | 22° 9' 24.209" N |
| P-46 | 83° 30' 11.291" E | 22° 9' 23.425" N |
| P-47 | 83° 30' 11.914" E | 22° 9' 22.640" N |
| P-48 | 83° 30' 12.354" E | 22° 9' 22.112" N |
| P-49 | 83° 30' 13.197" E | 22° 9' 21.526" N |

Provisional Co-ordinates of Cardinal Points for Gare Sector IV/6

| Point No. | Longitude (WGS84) | Latitude (WGS84) |
|------------------|--------------------------|-------------------------|
| P-50 | 83° 30' 14.048" E | 22° 9' 20.957" N |
| P-51 | 83° 30' 14.899" E | 22° 9' 20.389" N |
| P-52 | 83° 30' 15.303" E | 22° 9' 20.142" N |
| P-53 | 83° 30' 15.198" E | 22° 9' 19.151" N |
| P-54 | 83° 30' 15.101" E | 22° 9' 18.179" N |
| P-55 | 83° 30' 15.004" E | 22° 9' 17.210" N |
| P-56 | 83° 30' 14.903" E | 22° 9' 16.136" N |
| P-57 | 83° 30' 14.375" E | 22° 9' 15.597" N |
| P-58 | 83° 30' 13.731" E | 22° 9' 14.849" N |
| P-59 | 83° 30' 13.052" E | 22° 9' 13.989" N |
| P-60 | 83° 30' 12.387" E | 22° 9' 13.000" N |
| P-61 | 83° 30' 11.673" E | 22° 9' 12.054" N |
| P-62 | 83° 30' 11.068" E | 22° 9' 11.538" N |
| P-63 | 83° 30' 10.455" E | 22° 9' 10.872" N |
| P-64 | 83° 30' 9.668" E | 22° 9' 10.115" N |
| P-65 | 83° 30' 8.803" E | 22° 9' 9.465" N |
| P-66 | 83° 30' 7.928" E | 22° 9' 8.879" N |
| P-67 | 83° 30' 7.293" E | 22° 9' 8.443" N |
| P-68 | 83° 30' 6.488" E | 22° 9' 7.924" N |
| P-69 | 83° 30' 5.732" E | 22° 9' 7.478" N |
| P-70 | 83° 30' 5.050" E | 22° 9' 7.016" N |
| P-71 | 83° 30' 4.361" E | 22° 9' 6.455" N |
| P-72 | 83° 30' 3.813" E | 22° 9' 5.967" N |
| P-73 | 83° 30' 2.723" E | 22° 9' 4.796" N |
| P-74 | 83° 30' 2.287" E | 22° 9' 4.205" N |
| P-75 | 83° 30' 1.752" E | 22° 9' 3.176" N |
| P-76 | 83° 30' 1.439" E | 22° 9' 2.683" N |
| P-77 | 83° 30' 1.077" E | 22° 9' 2.224" N |
| P-78 | 83° 30' 0.655" E | 22° 9' 1.271" N |
| P-79 | 83° 30' 0.439" E | 22° 9' 0.669" N |
| P-80 | 83° 30' 0.299" E | 22° 9' 0.135" N |
| P-81 | 83° 30' 0.178" E | 22° 8' 59.763" N |
| P-82 | 83° 30' 0.173" E | 22° 8' 59.190" N |
| P-83 | 83° 30' 0.323" E | 22° 8' 58.738" N |
| P-84 | 83° 30' 0.531" E | 22° 8' 58.268" N |
| P-85 | 83° 30' 0.864" E | 22° 8' 57.587" N |
| P-86 | 83° 30' 1.142" E | 22° 8' 56.744" N |
| P-87 | 83° 30' 1.293" E | 22° 8' 55.931" N |
| P-88 | 83° 30' 1.423" E | 22° 8' 55.231" N |
| P-89 | 83° 30' 1.603" E | 22° 8' 54.550" N |
| P-90 | 83° 30' 1.820" E | 22° 8' 53.798" N |
| P-91 | 83° 30' 2.179" E | 22° 8' 53.156" N |
| P-92 | 83° 30' 2.614" E | 22° 8' 52.555" N |
| P-93 | 83° 30' 3.131" E | 22° 8' 51.859" N |
| P-94 | 83° 30' 3.682" E | 22° 8' 51.087" N |
| P-95 | 83° 30' 4.139" E | 22° 8' 50.628" N |
| P-96 | 83° 30' 4.441" E | 22° 8' 50.368" N |
| P-97 | 83° 30' 5.148" E | 22° 8' 49.695" N |
| P-98 | 83° 30' 5.554" E | 22° 8' 49.220" N |

Provisional Co-ordinates of Cardinal Points for Gare Sector IV/6

| Point No. | Longitude (WGS84) | Latitude (WGS84) |
|------------------|--------------------------|-------------------------|
| P-99 | 83° 30' 6.072" E | 22° 8' 48.767" N |
| P-100 | 83° 30' 6.483" E | 22° 8' 48.329" N |
| P-101 | 83° 30' 7.015" E | 22° 8' 47.779" N |
| P-102 | 83° 30' 7.449" E | 22° 8' 47.258" N |
| P-103 | 83° 30' 8.032" E | 22° 8' 46.491" N |
| P-104 | 83° 30' 8.637" E | 22° 8' 45.643" N |
| P-105 | 83° 30' 9.052" E | 22° 8' 44.960" N |
| P-106 | 83° 30' 9.443" E | 22° 8' 44.430" N |
| P-107 | 83° 30' 9.906" E | 22° 8' 43.967" N |
| P-108 | 83° 30' 10.208" E | 22° 8' 43.675" N |
| P-109 | 83° 30' 10.439" E | 22° 8' 43.308" N |
| P-110 | 83° 30' 10.621" E | 22° 8' 42.802" N |
| P-111 | 83° 30' 10.693" E | 22° 8' 42.111" N |
| P-112 | 83° 30' 10.635" E | 22° 8' 41.574" N |
| P-113 | 83° 30' 10.467" E | 22° 8' 41.014" N |
| P-114 | 83° 30' 10.455" E | 22° 8' 40.620" N |
| P-115 | 83° 30' 10.510" E | 22° 8' 40.290" N |
| P-116 | 83° 30' 10.559" E | 22° 8' 39.649" N |
| P-117 | 83° 30' 10.518" E | 22° 8' 39.192" N |
| P-118 | 83° 30' 10.421" E | 22° 8' 38.925" N |
| P-119 | 83° 30' 10.181" E | 22° 8' 38.340" N |
| P-120 | 83° 30' 10.134" E | 22° 8' 37.817" N |
| P-121 | 83° 30' 10.224" E | 22° 8' 37.251" N |
| P-122 | 83° 30' 10.281" E | 22° 8' 36.752" N |
| P-123 | 83° 30' 10.377" E | 22° 8' 36.109" N |
| P-124 | 83° 30' 10.441" E | 22° 8' 35.624" N |
| P-125 | 83° 30' 10.449" E | 22° 8' 35.129" N |
| P-126 | 83° 30' 10.376" E | 22° 8' 34.719" N |
| P-127 | 83° 30' 10.253" E | 22° 8' 34.374" N |
| P-128 | 83° 30' 10.062" E | 22° 8' 34.043" N |
| P-129 | 83° 30' 9.690" E | 22° 8' 33.737" N |
| P-130 | 83° 30' 9.232" E | 22° 8' 33.403" N |
| P-131 | 83° 30' 8.705" E | 22° 8' 33.017" N |
| P-132 | 83° 30' 8.129" E | 22° 8' 32.646" N |
| P-133 | 83° 30' 7.736" E | 22° 8' 32.353" N |
| P-134 | 83° 30' 7.184" E | 22° 8' 32.055" N |
| P-135 | 83° 30' 6.395" E | 22° 8' 31.589" N |
| P-136 | 83° 30' 5.616" E | 22° 8' 31.123" N |
| P-137 | 83° 30' 5.045" E | 22° 8' 30.795" N |
| P-138 | 83° 30' 4.357" E | 22° 8' 30.393" N |
| P-139 | 83° 30' 3.866" E | 22° 8' 30.126" N |
| P-140 | 83° 30' 3.228" E | 22° 8' 29.850" N |
| P-141 | 83° 30' 2.466" E | 22° 8' 29.589" N |
| P-142 | 83° 30' 1.773" E | 22° 8' 29.353" N |
| P-143 | 83° 30' 1.279" E | 22° 8' 29.136" N |
| P-144 | 83° 30' 0.958" E | 22° 8' 28.845" N |
| P-145 | 83° 30' 0.524" E | 22° 8' 28.345" N |
| P-146 | 83° 29' 59.857" E | 22° 8' 27.936" N |
| P-147 | 83° 29' 59.357" E | 22° 8' 27.729" N |

Provisional Co-ordinates of Cardinal Points for Gare Sector IV/6

| Point No. | Longitude (WGS84) | Latitude (WGS84) |
|------------------|--------------------------|-------------------------|
| P-148 | 83° 29' 58.781" E | 22° 8' 27.397" N |
| P-149 | 83° 29' 58.204" E | 22° 8' 26.977" N |
| P-150 | 83° 29' 57.707" E | 22° 8' 26.530" N |
| P-151 | 83° 29' 57.176" E | 22° 8' 26.009" N |
| P-152 | 83° 29' 56.634" E | 22° 8' 25.571" N |
| P-153 | 83° 29' 55.929" E | 22° 8' 25.073" N |
| P-154 | 83° 29' 55.366" E | 22° 8' 24.549" N |
| P-155 | 83° 29' 54.749" E | 22° 8' 23.970" N |
| P-156 | 83° 29' 54.117" E | 22° 8' 23.401" N |
| P-157 | 83° 29' 53.442" E | 22° 8' 22.810" N |
| P-158 | 83° 29' 52.371" E | 22° 8' 21.837" N |
| P-159 | 83° 29' 51.752" E | 22° 8' 21.194" N |
| P-160 | 83° 29' 51.135" E | 22° 8' 20.529" N |
| P-161 | 83° 29' 50.461" E | 22° 8' 19.725" N |
| P-162 | 83° 29' 49.796" E | 22° 8' 18.849" N |
| P-163 | 83° 29' 49.251" E | 22° 8' 18.201" N |
| P-164 | 83° 29' 48.813" E | 22° 8' 17.568" N |
| P-165 | 83° 29' 48.608" E | 22° 8' 17.241" N |
| P-166 | 83° 29' 48.364" E | 22° 8' 16.802" N |
| P-167 | 83° 29' 48.034" E | 22° 8' 16.210" N |
| P-168 | 83° 29' 47.813" E | 22° 8' 15.691" N |
| P-169 | 83° 29' 47.532" E | 22° 8' 14.954" N |
| P-170 | 83° 29' 47.376" E | 22° 8' 14.470" N |
| P-171 | 83° 29' 47.264" E | 22° 8' 13.886" N |
| P-172 | 83° 29' 47.252" E | 22° 8' 13.338" N |
| P-173 | 83° 29' 47.359" E | 22° 8' 12.616" N |
| P-174 | 83° 29' 47.570" E | 22° 8' 12.140" N |
| P-175 | 83° 29' 47.750" E | 22° 8' 11.714" N |
| P-176 | 83° 29' 47.841" E | 22° 8' 11.151" N |
| P-177 | 83° 29' 47.674" E | 22° 8' 10.654" N |
| P-178 | 83° 29' 47.477" E | 22° 8' 10.105" N |
| P-179 | 83° 29' 47.221" E | 22° 8' 9.491" N |
| P-180 | 83° 29' 46.879" E | 22° 8' 8.855" N |
| P-181 | 83° 29' 46.683" E | 22° 8' 8.335" N |
| P-182 | 83° 29' 46.428" E | 22° 8' 7.625" N |
| P-183 | 83° 29' 46.172" E | 22° 8' 7.020" N |
| P-184 | 83° 29' 45.928" E | 22° 8' 6.552" N |
| P-185 | 83° 29' 45.437" E | 22° 8' 5.681" N |
| P-186 | 83° 29' 45.059" E | 22° 8' 5.043" N |
| P-187 | 83° 29' 44.710" E | 22° 8' 4.401" N |
| P-188 | 83° 29' 44.375" E | 22° 8' 3.752" N |
| P-189 | 83° 29' 43.995" E | 22° 8' 3.038" N |
| P-190 | 83° 29' 43.746" E | 22° 8' 2.410" N |
| P-191 | 83° 29' 43.543" E | 22° 8' 1.897" N |
| P-192 | 83° 29' 43.287" E | 22° 8' 1.153" N |