

## 1 TRAFFIC MANAGEMENT PLAN

The construction period for the complete 225MW solar PV facility is estimated as a maximum of 18 months. The delivery of the solar panels will be limited to the first 6 months of the contract period. The solar modules will be delivered by superlink trucks in 40' shipping containers. Information obtained from the client indicated that an estimated total of 900 trips will be generated over the first 6-months for the delivery of the solar panels. It is expected that the containers will be transported by road freight from Cape Town, along the N1 and past Hanover to the proposed site. This is illustrated in Picture 1 below.



**Picture 1 Proposed Route for Delivery of Solar Panels**

During the 18-month construction period, approximately 150 people will work on the site. The workforce will be travelling from De Aar and Hanover. It is expected that the people will travel by bus / taxi. It is assumed that 15 people will generate one vehicle (taxi / bus) trip and that 50% of the trips will be from Hanover's side and 50% of the trips will originate from De Aar's side.

Construction machinery will also be transported to the site and remain on site during the construction period. This machinery will be removed once construction is completed. It is expected that the construction equipment will typically include:

- a water tanker;
- a grader;
- a tip truck;
- cement mixers;
- compaction equipment; and

- light delivery vehicles.

From the Traffic Impact Statement, it was determined that the generated trips during the construction phase will have an insignificant impact on the existing peak hour traffic volumes.

Discussions with the client indicated that 44 permanent staff members will operate the proposed plant. These staff members will travel from De Aar and Hanover.

Light construction vehicles (water truck, refuse removal truck) will also use the proposed access. It is evident that even less traffic will be generated during the operational phase and will therefore not impact the existing traffic flow.

Considering the traffic volumes on the road and the insignificant number of trips that will be generated during the construction and operational phases of the project, it is not proposed that additional turning lanes be constructed at the access.