

VPSA PLANT TO VISHU CHEMICALS

RECOMMENDATION REPORT

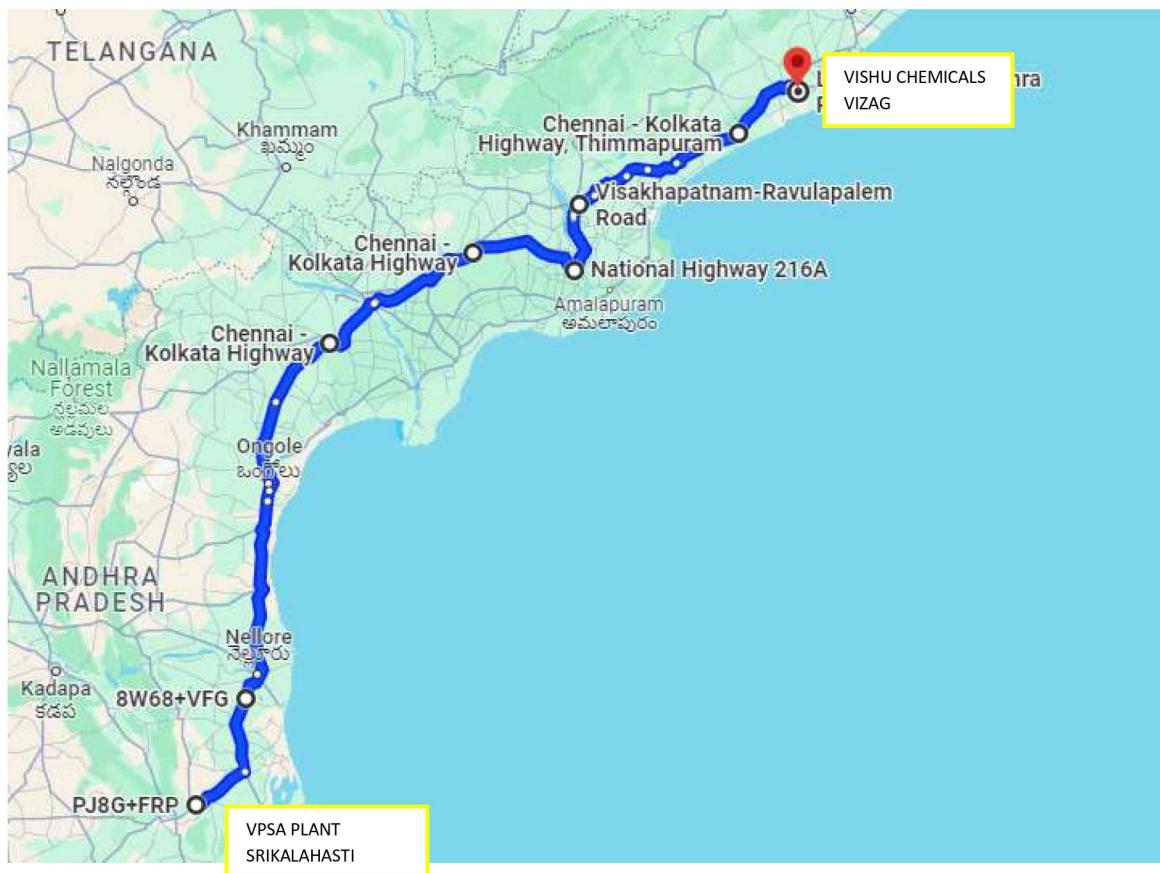
Dated 20-03-2025

SRIKALAHASTI PLANT TO VISHNU CHEMICALS, VIZAG RECOMMENDATION REPORT

OBJECTIVE:

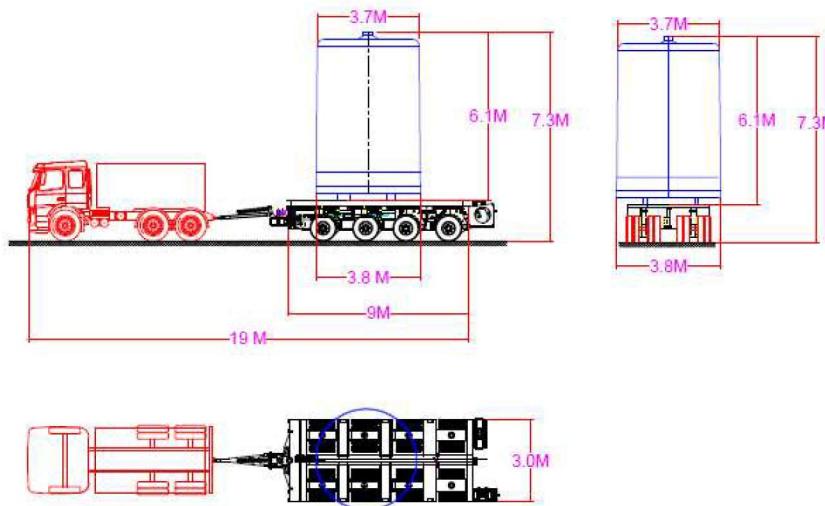
To study and evaluate the feasibility of moving cargo measuring dimensions of Consignment: L 9m X W 3.85m X H 6.1m (7.2m including trailer) - WT 30 Metric Tons (consignment weight only).

ROUTE MAP:

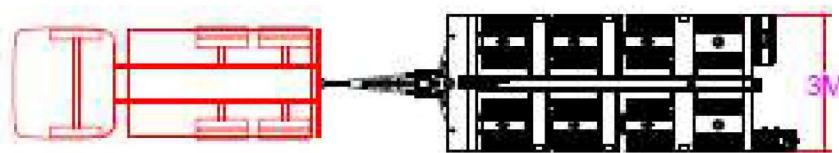
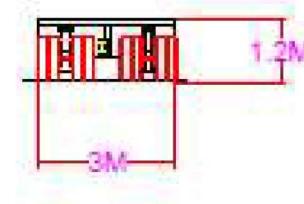
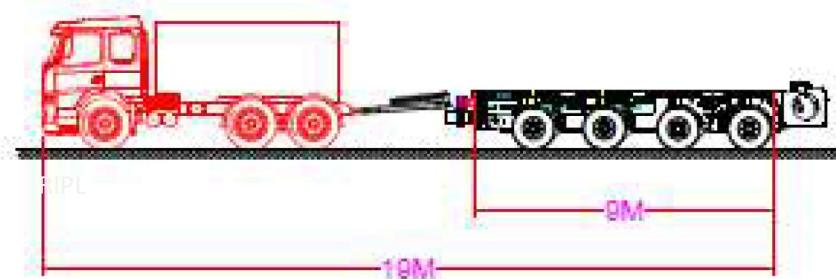


OBSERVATIONS:

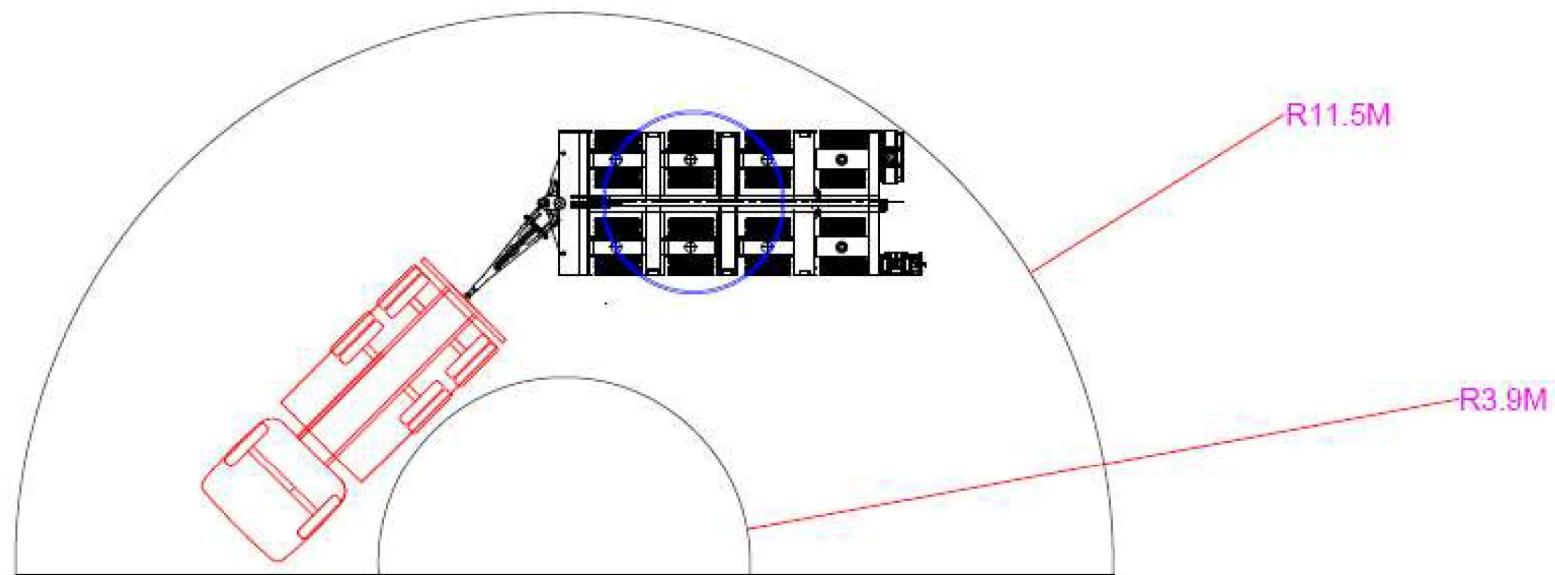
- a. Routes surveyed from Old VPSA Plant Srikalahasti-Guntur- Mangalagiri-Nellore-Ongole-Vijayawada- Eluru-Vishu Chemical Vizag Total Kms 843
- b. For a total stretch of around, we suggest 4-line modular axle trailer coupled with Puller as recommended vehicle for this cargo movement (refer General arrangement drawing of vehicle given in detailed report).
- c. During the survey we have identified both major critical and minor hindrances. Our team as proposed suitable solutions with recommendations in detailed report. Only critical areas have been highlighted below with possible solutions.



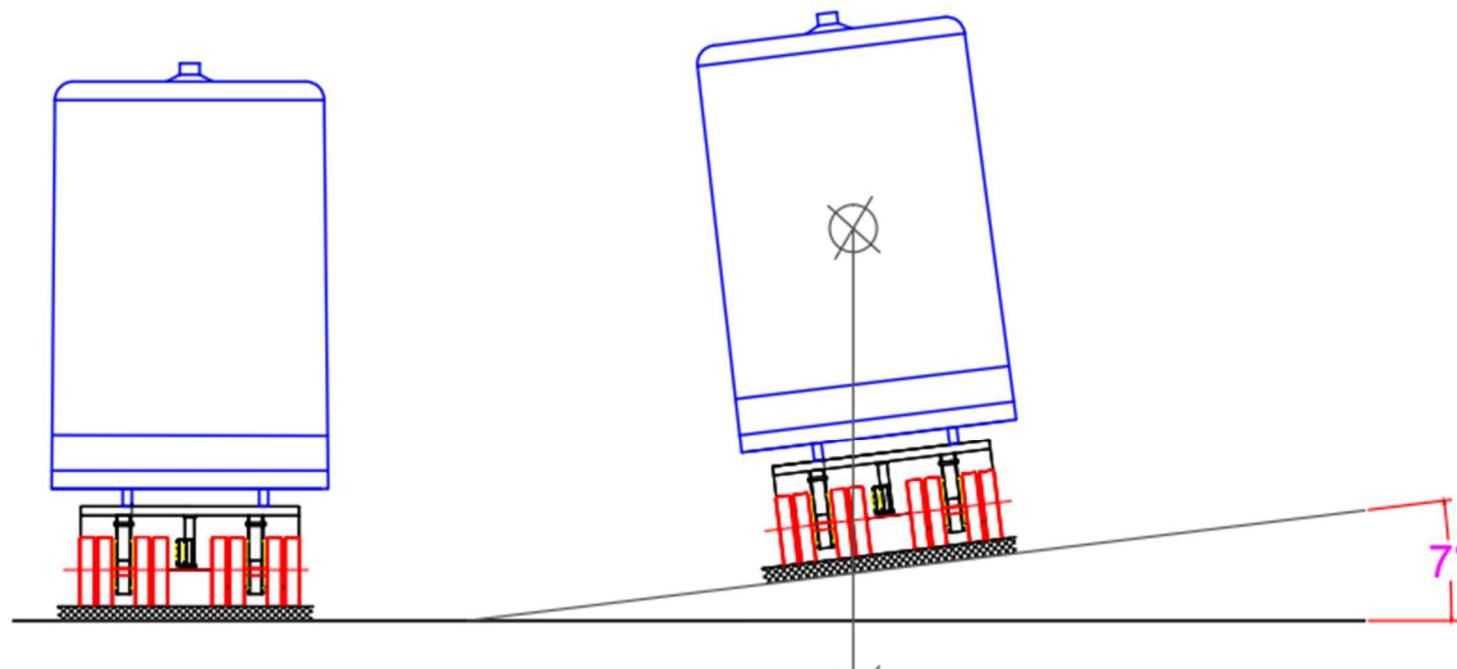
VEHICLE WITH OUT LOAD OVERVIEW:



TCD MODEL



Stability



Dated 20-03-2025

AREA OF CONCERN

1. NE Coordinates: NE Coordinates: N25 N13 42.967 E79 38.164 At Srikalahasti, Andhra Pradesh. team has identified railway level crossing with a barrier height of 4.7 m and height of electrical lines is 5.5m. The clearance height required for our package movement (Trailer + cargo) is 7.1m. We recommend removing the power line cable and barricade with necessary permission from the DRM (Divisional Regional Manager) office at Guntakal and tree branches should be removed.



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2. NE Coordinates: N16 17.982 E80 29.004 At Guntur, Andhra Pradesh which is 356 km from Srikalahasti, our team identified the underpass bridge clearance Height is 5.7m meter, but our cargo with trailer requires clearance height of 7.1. hence recommend avoiding this location, we suggest moving to the left-side service road to facilitate left turn towards Guntur city, further change the puller direction and move to opposite lane connect service road to re connect back to national highway NH 16, refer satellite image given



3. NE Coordinates: N16 25.598 E80 34.619 NE Coordinates: N16 25.598 E80 34.619 at Mangalarigri, Andhra Pradesh which is 374 km from Srikalahasti, our team identified the underpass bridge clearance Height of 6.4m meter, but our cargo with trailer requires clearance height of 7.1. recommend avoiding this location, we suggest moving to the left-side service road taking a left turn, then changing the puller direction and moving straight to the next side service road to connect NH 16.



Satellite Map:

Kindly note: A new bypass is under construction and will be ready in the next six months to avoid the above-mentioned obstacles.



4. NE Coordinates: N16.77828 E81.22176 At Gundugolanu which is 466 km from Srikalahasti Vehicle takes a right turn to reach Tanukku the route via under the bridge, whose clearance height is 6m is not feasible Due to height factor vehicle cannot take a right turn under the bridge, to avoid this obstacle vehicle should be moving in the opposite road in the median, then move straight to opposite service road to reach Tanukku. Connect back to the main road. Refer satellite image.



Satellite Image



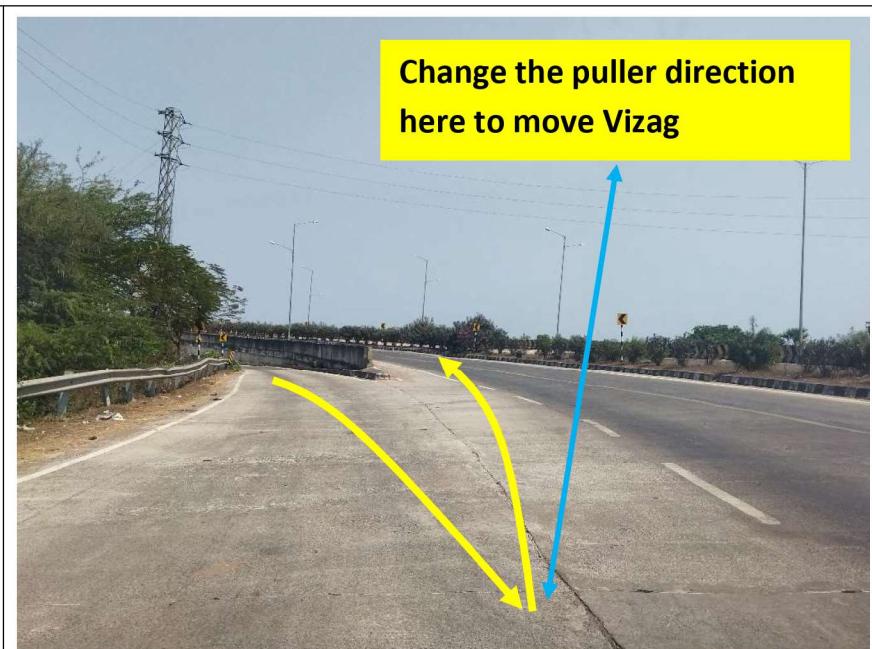
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5. NE Coordinates: N17 04.086 E81 53.004 At Jagannadhapuram which is 132km Gundugolanu, we identified the footpath bridge height of 6.5m, due to height factor cargo cannot move this way; to avoid this obstacle we suggest use LHS mud area with clearing, landfilling, power cable poles and road levelling required to move our cargo safely.



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6. NE Coordinates: N17 14.565 E82 20.550 at Kathipudi junction, Andhra Pradesh which is 187 km from Gudugolanu via Tanuku, our team identified the underpass bridge clearance Height of 6.2m meter, but our cargo with a trailer requires clearance height of 7.1. recommend to avoid this location, we suggest moving to move opposite There is a cross-section available 700 meters before the height restriction then move opposite service road the left-side service road changing the puller direction, and moving straight road to connect NH 16. Refer to the satellite Image given below.



Satellite Image:



7. NE Coordinates: N17.65535 E83.09069 at Visakhapatnam, Andhra Pradesh Our team identified that the arch height is 6.5 m. The arch should be removed due to height restrictions. Alternatively, our team surveyed another route where the lots of tree branches on both sides to be trimmed, at a height of 5m, should be trimmed.



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Satellite Image:



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8. NE Coordinates: N17.65535 E 83.09069 At Vishnu Chemicals limited material in gate height is 6m width is 6.4m due to the height factor vehicle cannot move inside the plant. The concrete structure needs to be demolished by the wall beside the entry by 8m length for safe cargo movement.



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Site Location. NE coordinates N17 39.411 E83 04.916



CONCLUSION:

- Based on the survey our team identified the movement from Srikalahasti to Vishnu Chemicals Limited Visakhapatnam has certain critical concerns for which we had given modifications and suggestions given above with GPS coordinate requires to be implied to move the cargo in vertical position on the modular axle trailer as shown in above General arrangement drawings.
- Apart from the critical height concerns and modifications suggested above, we also have other minor issues listed below which needs to be taken care Predominantly a lot of tree branches were found as may hindrance the cargo on few major cities which have to be trimmed down. Detailed report holds information with location details.
- ☐ Also, we found Low Tension cables and High-Tension cables in transiting cities in all major and minor village which may hinder the cargo movement due to the height factor. Details of the obstructions are given in the detailed report. You are required to depute an electrician or an electrical engineer along with the vehicle. You also require permission from the respective Electricity Board to shut down the power & remove or lift the cable.
- Key points of concern are mentioned above which need to be taken care of during the vehicle manoeuvring.

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Maximum dimensions/weight of the cargo, that can be transported in the mentioned feasible route is given below.

- • With civil / shutdown of electrical lines – Dia 3.85m and height 7.2m (Vehicle height included)
- • Without civil / shutdown of electrical lines - Dia 3.85m and height 5.6m (vehicle height included)
- The maximum weight that can be transported is 250 Mt.