



# Admire Marine Services Pvt. Ltd.

(ISO 9001 CERTIFIED COMPANY)

GOVT. APPROVED INSURANCE SURVEYORS / LOSS ASSESSORS & ANALYSERS



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Ref. :

Date :

SURVEY REPORT NO: ADM/JAM/INS\_01312

DATE: 05.12.2012

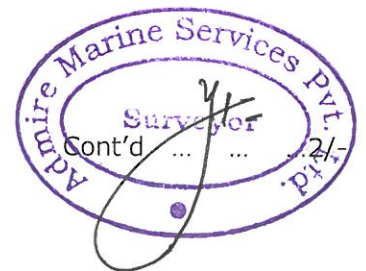
## LOSS PREVENTION SURVEY.

This is to certify that at the request of BHEL JHANSI vide their award of contract ref No. CDC/T/12-13 /09 /A. Dt 12/10/2012 to our JV partner Schenker India Pvt Ltd, we undersigned surveyor had carried out loss prevention /warranty survey for Transportation 41 MVA Generator transformer for M/s. HPSEB –UHL –Stage 111. (Size – 5200mm(L)X 2450 mm (W) X 3600 mm (H) – 42 MT .from BHEL JHANSI to Baijnath in Himachal Pradesh to UHL Stage 111 Site . (34 KM) on October /November, 2012.

We report:

**(A) Route Plan** - BHEL Jhansi, (NH25) Bhoginipur (NH 2A),Etawah (NH 2), Agra,(NH 2) Delhi( NH 1) , Ambala (NH 22)

Chandigarh (NH 21),Roopnager (NH 205),Nangal (SH 22),Una ( SH 25),Kangara ( NH 154),Baijnath (NH 20)- 1164 KM



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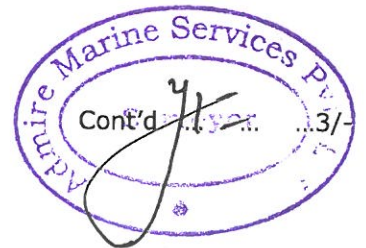
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Continuation sheet No. 2



## **BHELJHANSI to BHOGINIPUR : 172 KM – (NH 25)**

This section is two line road and all bridges are classified 70R. Overhead High Voltage Lines are in KM 49, near Parichna, where require to move through the opposite line in right side. At KM 159 , Yamuna river bridge should pass only day time and after 20 minute blocking all movement to avoid vibrations . Trailer shall to move centrally on the bridge with speed less than 5 KM/Hr, Diver shall not apply breaks during passing on bridge structure and not any gear change. Any kind of impact must be avoided



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Continuation sheet No. 3



**BHOGINIPUR to AGRA : 230 Km ( NH 2/ 2A ).**

This distance 240 KM is in National highway . Road condition is good. All bridges are classified 70R . Main cities have bypass and service roads to avoid the Fly over. City power lines are in many locations to be lifted by any non conducting poles Toll plazas have ODC line passages.



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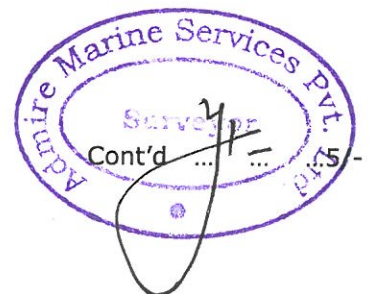
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Continuation sheet No. 4



**AGRA to DELHI** : 203 KM ( NH 2)

National Highway 2 via Mathra, Palwal, Faridabad – 211 KM or National highway 93/91 via Hethras/Aligarh – 230 KM can be used. Due to heavy traffic in NH2 we are recommending NH 93/91 .Any Major constrains are not in this route , BHEL Haridwar 100 MT ODC are using this rote.



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Continuation sheet No. 5



## DELHI to CHANDIGARH : 243 KM ( NH 1/22)

This section are in NH 1 and 22 road are bitumen roads with 4line or 4 lines under construction. Many locations ROB / fly over are under construction. Service roads are available and major bridges are KM 743, WJC Canal and KM 769 Markanda river bridge. This river bridge should pass only day time and after 20 minute blocking all movement to avoid vibrations . Trailer shall to move centrally on the bridge with speed less than 5 KM/Hr, Diver shall not apply breaks during passing on bridge structure and not any gear change. Any kind of impact must be avoided . BHEL Jhansi ODC 100 MT is transporting in this route regularly.



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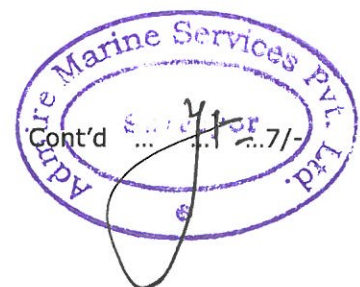
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Continuation sheet No. 6



## CHANDIGARH to UNA : 148 KM ( NH 205/SH 22)

926KM near Ahmdapur steel truss girder bridge of 10 meter 3 span and KM 977 Mangal Dam bridge cum Regulator are the major bridges . Both are classified in 70 R and no issue for this movement.



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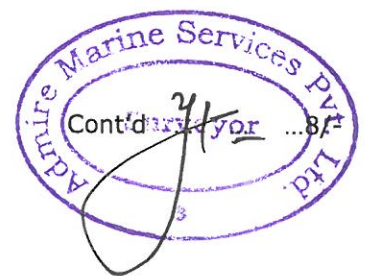
Continuation sheet No. 7



## UNA to KANGARA : 106 KM ( SH25/NH 154 )

These sections have Ghats's roads and bridges in 40R and 70 R class. 20 KM come under Ghats's road with " S " type curves and day time crossing only recommended

Speed of trailer not exceed 2 KM/Hr in 40 R bridges and Trailer shall to move centrally on the bridge with speed less than 5 KM/Hr, Diver shall not apply breaks during passing on bridge structure and not any gear change. Any kind of impact must be avoided. This route is main route to Pathankot and heavy cargo trailers are moving on this route



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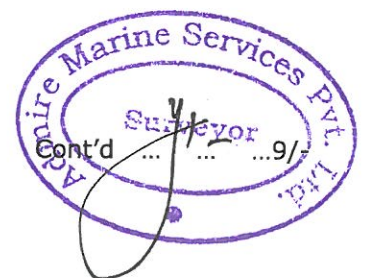
Continuation sheet No. 8



## KANGARA to BAIJNATH : 62 KM ( NH 154 NH 20 )

These sections have Ghats's roads and bridges in 40R and 70 R class. 20 KM come under Ghats's road with " S " type curves and day time crossing only recommended

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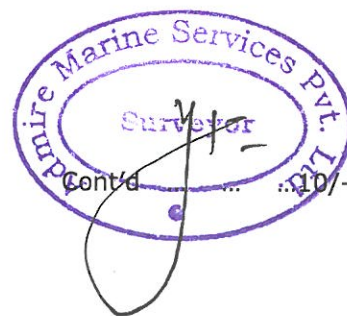
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## (A) TRANSPORTION PLAN.

We recommend to use Low Bed trailer with 2 axles 9 M long in the above route.  
Steel beams 4 nos/wooden blocks 40 Nos for securing the package.



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## OUR OBERVATION about last two transportation to same site .

1. Improper selection of Trailer
2. Dunnage (Wooden Blocks) not utilized in effective manner.
3. Inadequate strength, balances or number of lashing , Hard Lashing.
4. Lack of appreciation of various forces involved especially
  - Force parallel to and across the chassis of trailer
  - Force normal to the chassis
  - Force in longitudinal direction.
5. Inadequate monitoring of the movement of the equipment along the route.
6. Gradient above 7 degrees in 4 location in route need extra precaution in driving.

## OUR RECOMENDATION

1. Trailer shall to move centrally on the bridge with speed less than 5 KM/Hr, Diver shall not apply breaks during passing through bridge structure, also not change gear. Any kind of impact must be avoided.
2. Gradients, Curves and turning, super elevation to check and trail run to be undertaken.
3. Town and thickly inhabited areas to be crossed between 6 am to 8am or 2 PM to 4 Pm only.
4. Escort crane should arranged ( 50 MT)



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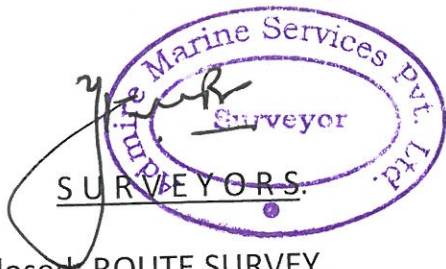
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Continuation sheet No. 11

This report reflects our findings at the date, Time and Place of Inspection /survey carried out

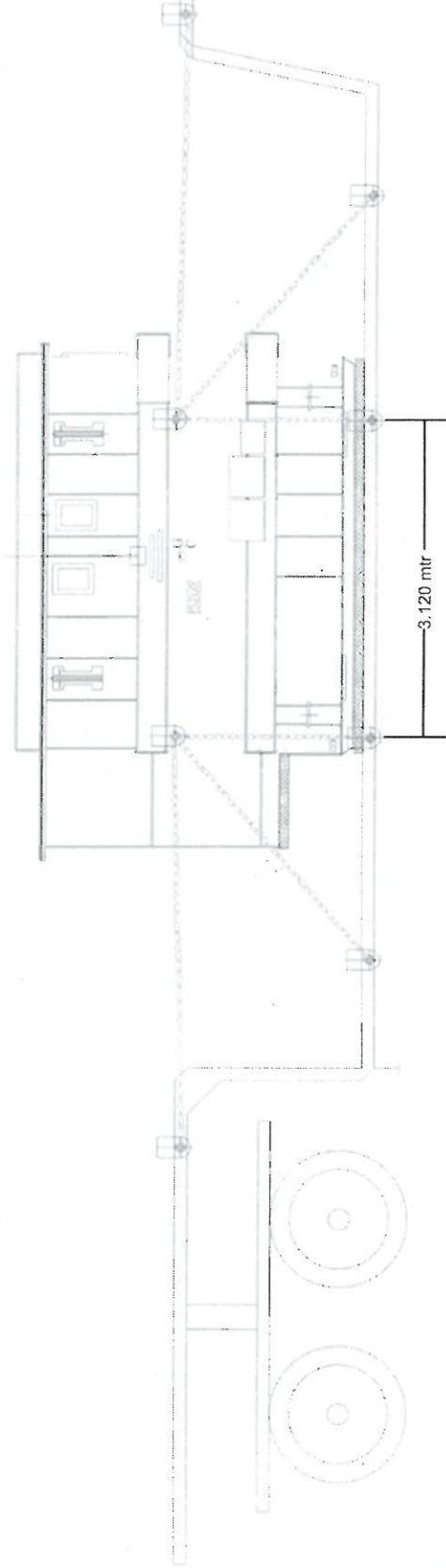
Issued without Prejudice

For, Admire Marine Services Pvt. Ltd.

A purple circular stamp with the text "Admire Marine Services Pvt. Ltd." around the perimeter and "Surveyors" in the center. A handwritten signature in black ink is written over the stamp. Below the stamp, the word "SURVEYORS." is printed in a bold, sans-serif font.

Enclosed. ROUTE SURVEY.

LASHING DIAGRAM FOR 41 MVA 132 / 11KV 3 PHASE, 50 HZ OFWF  
 SHIPPING WEIGHT GAS FILLED = 42 TONS APPROX.



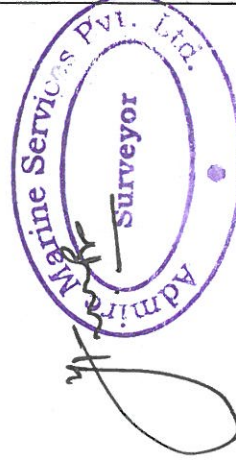
SIDE VIEW

BILL OF MATERIAL

Sr.	Description	Specification	Qty
01	Chain	MBL 100 KIN	1.5 Mtr- 12 Nos.
02	Chain Binder	MIN SWL 4 TON	12 Nos.
03	Shackle	SWL 2.5 TONS	12 Nos.

Note :

1. Rubber mats to be placed between Cargo and Transport beam.
2. Rubber mats to be placed between Cargo & Lashing chain.



Client : BHEL / M/S. HPSEB, UHL, STAGE- III, MANDI

Approved By : UJT

DATE : 08.11.2012

NOT SCALE