



**CNG TRANSPORTATION SERVICES THROUGH HEAVY COMMERCIAL  
VEHICLES (HCVs) FOR CITY GAS DISTRIBUTION PROJECT ACROSS IRMEL  
AUTHORISED GEOGRAPHICAL AREAS (GA's)**

**TENDER ID – IRMEL/TEND:2025-26/CNG-HCV/01**

**VOLUME II OF II  
(TECHNICAL VOLUME)**

**IRM ENERGY LIMITED**

A Group Company of Cadila Pharmaceuticals Ltd

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## **1 INTRODUCTION**

M/s. IRM Energy Limited (IRMEL), A Group Company of Cadila Pharmaceutical Ltd, is engaged in City Gas Distribution business in the Authorized Geographical Areas of Banaskantha, Fatehgarh Saheb, Diu & Gir Somnath and Namakkal & Tiruchirappalli.

M/s. IRM Energy Limited (IRMEL), (hereinafter referred to as "Company" or "Owner"), has Daughter Booster CNG station, operational across the authorized GA's. The HCVs are deployed to transport CNG through mobile cascades from IRMEL's mother station to daughter booster stations.

The company is intended to invite bidders for providing CNG transportation services through mobile cascades under following modalities

- i. Modality-1: Hiring of Brand New CNG-fueled HCV (Heavy Commercial Vehicle) on Rate Contract basis, for transportation of CNG through Cascades (Supplied as free issue) within IRMEL's authorized GAs.
- ii. Modality-2: Providing Operations & Maintenance of IRMEL Owned CNG - fueled HCV (Heavy Commercial Vehicle), on Rate Contract basis, for transportation of CNG through Cascades (Supplied as free issue) within IRMEL's authorized GAs.

The present document covers the technical scope & specifications for providing CNG transportation services through mobile cascades.

## **2 SCOPE OF WORK: HIRING OF HCV's FOR CNG TRANSPORTATION THROUGH MOBILE CASCADES**

### **2.1. SCOPE OF WORK**

- i. The scope of work broadly covers the supply of CNG Fueled HCV (Heavy Commercial Vehicle) on Rate Contract basis for transportation of CNG through Cascades to and from - Mother Station to Daughter Booster Stations located in authorized Geographical Areas of IRMEL for a **period of Five (05) years from the date of award of contract and extendable for further Two (02) year with the same rate, terms & conditions at discretion of IRMEL.**
- ii. The first trip will be carried out in presence of Owner/ Owner representative so as to finalize RTKM (Round Trip Kilometer).
- iii. Successful Bidder shall provide brand new CNG Fueled HCV of 16 MT GVW. Cascades owned by IRMEL shall be given to successful Bidder for mounting the same on the HCV provided by the Bidder. After mounting of Cascades, Bidder has to endorse the Cascade with HCV at RTO and obtain all the necessary statutory permits that may be required for operation of HCV for transportation of CNG. Payment of fees and taxes are in the scope of Bidder.
- iv. The vehicle required to be supplied by the Bidder under this contract shall be brand new and procured only from reputed and regular vehicle manufacturers (preferably TATA, EICHER & Ashok Leyland). Bidder shall furnish the details of makes, model etc. and shall obtain prior approval of Owner before placing HCV under deployment.



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- v. HCV's Model shall be 2025 or latest, / Ex. Show Room and in perfect running condition. Bidder shall ensure that the fleet of HCV's which are to be deployed at IRMEL site shall be in the name of the Bidder. For any claim, losses, damages, etc. for the HCV, the liability will solely rest with the Bidder. The original documents of the vehicles have to be submitted to IRMEL for verification as and when these are asked for. Non submission of satisfactory documents related to deployment plan shall lead to termination of contract at Bidder's risk & cost.
- vi. All the operational & maintenance cost of the vehicles for transportation of CNG is in the scope of Bidder, which includes but not limited to the following:
- License of Dangerous & Hazardous Goods carrying certificate and badge number, permits, road tax, insurance of HCV, including 3rd party insurance incidental expenses and any other statutory levies. However, toll charges shall be paid extra at actual against submission of documentary evidence (toll receipt).
  - Salary and other emoluments for the drivers, helpers & supervisor as per applicable minimum wages act including PF, ESIC, their insurance etc.
  - Providing Personal Protective Equipment (PPE) and First Aid kit to the crew and providing all the safety appliances in the vehicle as per safety and statutory requirement for safe operation of HCV for transportation of CNG.
  - Maintenance and repair cost of the vehicles, including all consumables, cost of tyres, parking charges, cost of fuels, brake oil and lubricating oil etc. required for operation of the vehicles.
  - All related expenses for road worthiness, licenses and other requirements for operation & maintenance of vehicle in proper condition.
- iii. The Bidder shall have to ensure **deployment of HCV within a period of 15 days** from the date of issue of call out notice/Letter of Intimation or PO or communication/ intimation.
- iv. HCV's offered by the Bidder should be fit for mounting of Cascade of IRMEL. All three sides of the load carrying sections of the HCV must be removable for easy accessibility of the Cascades. The bigger size of HCV will be difficult to turn and park in CNG stations. Hence overall dimensions of the HCV shall be just fit for the specified Cascade. The Bidder shall have to get the vehicle approved by IRMEL for the purpose, before actual deployment of HCV's at IRMEL site.
- v. Bidder shall securely mount the CNG Cascade and make all necessary mounting arrangement including hiring of crane for lifting & handling of CNG Cascade and installation of necessary supporting stiffener at requisite positions. The complete job of mounting CNG Cascade up to the satisfaction of Owners' competent technical representative shall be completed within one day of issue of the Cascade or the suitable date communicated by the Owner's representative. Dismantling / Dismounting of each CNG storage Cascades from HCV and deposition to IRMEL designated Location / Stores and Painting / Sticking including supply of material per HCV are also covered in Bidders' scope.
- vi. The Bidder has to take delivery of CNG storage Cascades from IRMEL store/ other designated Location within the IRMEL's respective GA as directed by IRMEL. The Bidder shall have to securely mount the Cascades on HCV chassis with nut and bolts as per the specifications given by Owner/ Owner



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Consultant at Bidders own cost. Bidders shall ensure that mounting nuts and bolts does not become loose during normal operations. After taking over custody of Cascades, upkeep and safety of Cascades is the responsibility of the Bidder. Any leakage/ loose bolting/ loose clamp in the Cascade shall have to be immediately reported to IRMEL and further transportation of Cascade shall have to be carried out only after rectifying the same. Any loss or damage to the items such as valve/ knob/ fittings/ valve handle/ pressure gauge, cylinder/ tube or any other component of Cascade shall be rectified/ repaired at the risk & cost of Bidder. However, scheduled maintenance of Cascade shall be in the scope of IRMEL as per the guideline. For that the vehicle may be required to be deployed at local (within State) Hydro testing / Repair Centre as per the direction of IRMEL's EIC (Engineer In-Charge) and no consequential payment (Other than the SOR line items) shall be made to the Bidder.

- vii. On expiry or termination of the contract, Bidder shall unload and return Cascades in good condition, to the satisfaction of IRMEL, at designated CNG Mother Station or IRMEL Stores located in the respective GA **within 07 days** from the completion of Contract Period or Intimation from IRMEL or Termination of Contract.
- viii. The mobilized fleet shall be fitted with two earthing connections and spark/ flame arrestor of a design approved by Chief Controller of Explosives and provided with wheel jack, tool kit, and spare wheel in good condition. IRMEL may depute their representative for inspection of condition of HCV and Bidder has to maintain vehicles to the satisfaction of IRMEL.
- ix. Each vehicle should have a Master cut-off switch which disconnects the entire power supply from the Battery. This particular Master Cut-off switch shall be used at the time of Loading (filling)/ Unloading (decanting) the HCV. The battery of the HCV should be in enclosed condition and should not be exposed to the environment.
- x. The mobilized fleet shall be painted as per colour code and description provided by IRMEL in addition to the statutory display requirement to carry CNG filled Cascade has to be done by the Bidder at his own cost before deploying the vehicles and repainting the same as and when required.
- xi. The Bidder shall display a mark "**ON DUTY OF IRM ENERGY LTD**" on all vehicles at his cost for making the vehicle conspicuously distinguishable from a distance. The Bidder shall not display the advertisement of his or other agency on the vehicle(s).
- xii. The Bidder shall be responsible for providing suitable signboards/ display boards during HCV movement on load or in parked condition. Each HCV to paint rear & side panels for display of company name and logo, in, combination to fulfil the requirements of display under Rules 130 to 137 of Central Motor Vehicles Rules, 1989 and any other statutory regulation. The cost of painting/re-painting and stickering/re-stickering during the valid contract period shall be in scope of the Bidder. No extra charges for the same shall be paid by IRMEL.
- xiii. The Bidder shall operate their vehicles at their own risk entirely and Owner shall in no case be held responsible for any damage to the vehicles while on Owner's work. The Bidder shall maintain the vehicles in sound mechanical condition at all the times. The Bidder will rectify any defect noticed by him or notified by Owner immediately.
- xiv. The HCVs shall have dedicated smart phone in the driver's cabin for mobile communication and for data logging on IRMEL's digital application. In case the Bidder fails to provide this facility, Owner shall



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make alternate arrangement and make the system operational and necessary payments in this regard shall be made directly to the Bidder after deducting such amount from the bills of the Bidder.

- xv. Bidder shall supply and mount 02 nos fire extinguishers of ABC type (09 kg) on the HCVs or as per the directions of Engineer-in-charge and IRMEL's HSE requirement. The cost of supply and fabrication of steel material for mounting the extinguishers shall be borne by the Bidder. The Bidder will be responsible for safe custody of the fire extinguishers and in case of loss or damage of the extinguishers; the same shall be replaced by the bidder at his own cost. Periodic inspection, testing and hydro test of Fire extinguishers provided with vehicle shall be in Bidder's scope. In addition to above Bidder shall supply a 500 Grams ABC type Fire Extinguisher in the front cabin of the vehicle. Fire extinguisher shall be maintained in good and in fit to use conditions at all the times during the operation.
- xvi. Bidder shall provide minimum two (02) Drivers per HCV. The Drivers must have at least Three (03) Years experience as a driver for transportation of CNG/Hazardous goods and possess a valid driving license, necessary permits to transport CNG/Hazardous goods all the time during the contract period.
- xvii. Drivers should be able to read and write the local language and should be minimum 8th class pass. If driver is having a Driving License of "Heavy Goods Vehicle" then he shall be considered as 8th class pass.
- xviii. All drivers before commencing duties shall go for an induction program carried out by Site Engineer / Fire and Safety Supervisor of the owner. The drivers shall be issued STC Card (Safety & Technical Competency Card) after the completion of induction training. Drivers shall always carry the STC card as and when they are on duty.
- xix. Driver should not consume any intoxicant or alcohol and smoking while on duty and has to follow traffic guidelines. Driver must maintain good behavior and follow safety rules and guidelines of the Owner as well as Local Road Transport Authority. Any misconduct in this regard shall attract penalty and temporary / Permanent suspension from IRMEL's operation across all GA.
- xx. Bidder shall deploy drivers only after consultation with IRMEL representative and shall not make changes in drivers' fleet without the knowledge of IRMEL. IRMEL shall hold discrete rights to terminate driver/drivers from the duty in case of malpractice or non-compliance to agreed terms/traffic rules/safety guidelines.
- xxi. The Bidder shall arrange regular Health checkup of drivers and manpower involved in IRMEL Contract yearly of as per applicable statutory norms whichever is lower and submit related reports to IRMEL.
- xxii. The Bidder shall Provide Police Verification Certificate for the drivers and manpower involved in IRMEL Contract.
- xxiii. The Bidder shall provide uniform to all HCV Drivers at its own Expense.
- xxiv. Bidder shall indemnify and ensure no harm to the company for any action under Motor Vehicle Act due to the non-compliances or violation of rules and regulations pertaining to transportation of hazardous goods of whatsoever reasons attributed to the operations of HCV's for CNG transportation.
- xxv. If the vehicle is moving out of the continuous operations for any kind of major repair or overhauling i.e. not attributable to Owner, in such cases odometer opening and closing reading will be recorded at mother station / daughter booster station. Ideally such type of activity will be performed at Mother station or Owner store, however these are non-routine activity and KM tracking will be done



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accordingly for billing purpose. (closing and opening KM shall be noted during the activity by Owner).

- xxvi. The payment shall be done on monthly basis for the actual number of HCVs deployed based on the respective Schedule of Rates (SOR) line items. In case any HCVs are in operation for less than one Month period, the same shall be billed on Pro-rata basis. The KM for the billing purpose shall be derived from the RTKM agreed for the respective routes.
- xxvii. The Bidder shall be required to take Comprehensive Insurance Policy coverage for each vehicle taken from a reputed Insurance Company and shall keep in force during the tenure of the contract.
- xxviii. The Bidder shall conduct periodic training program to get the drivers fully acquainted with Owner Safety requirements. The Bidder will make the drivers available to Owner for training on defensive driving, first aid, firefighting, emergency preparedness and any other training which Owner considers necessary. New drivers prior to commencing their duties shall undergo an induction program carried out by supervisor/Fire & Safety Supervisor by Owner. In case complaint of driving quality and involved in accident, the driver should be replaced.

**3 SCOPE OF WORK: PROVIDING OPERATIONS & MAINTENANCE SERVICES FOR IRMEL OWNED HCV's FOR CNG TRANSPORTATION**

**3.1. SCOPE OF WORK**

- i. The scope of work broadly covers - providing operations and maintenance services for IRMEL owned CNG-fueled HCV (Heavy Commercial Vehicle), on Rate Contract basis, for transportation of CNG through Cascades (Supplied as free issue) from Mother Stations to Daughter Booster within IRMEL's authorized GA, for **a period of Five (05) years from the date of award of contract and extendable for further Two (02) year with the same rate, terms & conditions at discretion of IRMEL.**
- ii. IRMEL shall provide suitable HCV mounted with CNG cascades. Bidder shall be responsible for operation and maintenance including fabrication, mounting and Dismounting of IRMEL Supplied Cascades as Per requirement during the contract period.
- iii. GPS / Vehicle tracking system (VTS) shall be provided and maintained by Bidder as per the requirement of IRMEL and login credentials for the same shall be provided to IRMEL representative.
- iv. The Bidder shall deploy adequate and competent Supervisors for the purpose of coordination with IRMEL on round the clock basis for monitoring the vehicles movement.
- v. Bidder to ensure that vehicle provided shall comply with all rules & regulations prescribed for vehicles movement.
- vi. Compliance of statutory and safety requirements shall be in Bidder's scope.
- vii. Obtaining necessary Traffic Clearance from Traffic Department, is Bidder's responsibility.
- viii. The Bidder shall bear the entire operations & maintenance cost for transportation of CNG through IRMEL's owned HCVs, which shall include but not limited to the following:
  - a. Wages and other emoluments for the drivers, helpers & supervisor.





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- b. To provide all facilities like office accommodation and transport etc. to his workmen.
  - c. Cost of brake oil and lubricating oil and other consumables required for operation of the vehicles.
  - d. Maintenance and repair cost of the vehicles.
  - e. The services shall be provided on 24 Hours round the clock 365 days basis.
  - f. Licenses, permits, road tax, insurance and any other statutory levies for vehicles movement shall be obtained by Bidder at the cost of owner. All such charges shall be reimbursed by the Owner as per actual on receipt of Invoices and original challan.
  - g. Insurance: Insurance of HCV, Transit insurance including insurance of product/ item being transported and 3rd party insurance shall be obtained by Bidder at the cost of owner. All such charges shall be reimbursed by the Owner as per actual on receipt of Invoices.
  - h. CNG as a fuel for HCVs shall be in IRMEL's scope.
  - i. Toll charges during the operation of HCVs shall be in scope of Owner.
  - j. The Bidder must maintain Monthly Average Mileage of 5.5 km/kg in all HCVs (Heavy Commercial Vehicles) & best endeavors should be taken to consistently achieve and maintain a mileage more than 5.5 km/kg.
- ix. IRMEL shall issue HCV's along with Mobile Cascades (Type-I/Type-III/Type-IV) to the successful bidder after carrying out joint inspection along with required documents to continue the operations.
- x. For any claim, losses, damages, etc. for the HCV mounted with cascades in operation by the bidder, the liability will solely be rest with the bidder. Bidder shall indemnify and ensure no harm to the company for any action under Motor Vehicle Act due to the non-compliances or violation of rules and regulations pertaining to transportation of hazardous goods of whatsoever reasons attributed to the operations of HCV's for CNG transportation.
- xi. The original documents of legal and statutory permissions of the vehicles must be submitted to IRMEL. Non-submission of satisfactory documents related to the deployment plan shall lead to penalty or termination of the contract at Bidder's risk & cost.
- xii. All necessary permissions/certificates/documents for the operation & maintenance of the vehicles for transportation of CNG shall be obtained by the bidder (Legal fees and Taxes shall be paid by owner on submission of undisputed original receipts/certificates/permissions/documents), which includes but not limited to the following:
- License of Dangerous & Hazardous Goods carrying certificate and badge number, permits, road tax, insurance of HCV, Transit insurance (insurance of product/ item being transported) including 3rd party insurance incidental expenses and any other statutory levies. Toll charges, if applicable, shall be paid extra at actual against submission of documentary evidence.
  - Salary and other emoluments for the drivers, helpers & supervisor as per applicable minimum wages act including PF, ESIC, their insurance etc. shall be in scope of Bidder.
  - Providing Personal Protective Equipment (PPE) and First Aid kit to the crew and providing all the safety appliances in the vehicle as per safety and statutory requirement for safe operation of HCV for transportation of CNG.
  - The Bidder shall be responsible for the repair and maintenance of the HCVs, including all consumables, replacement of tyres after every 50,000 kms run, parking charges, brake oil, lubricating oil, and any other requirements necessary for the operation of the vehicles, and the entire cost towards the same shall be borne by the Bidder.





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- Bidder shall provide safety devices/indicators/signboards/reflector jackets/ First-Aid Box in each vehicle to ensure public safety during breakdown of vehicle/accidents.
  - All related expenses for roadworthiness, licenses, and other requirements for the operation & maintenance of the vehicle in proper condition.
- xiii. The Bidder shall have to ensure the deployment of driver/supervisor within a period of 15 days from the date of issue of the Letter of Intimation or PO or communication/intimation or call-out notice (in case of additional HCVs) bringing HCV into operation.
- xiv. The Bidder must take delivery of CNG storage Cascades and vehicle from IRMEL store/other designated Location as directed by IRMEL. The Bidder shall have to securely mount the Cascades on HCV chassis with nut and bolts as per the specifications given by Owner at Bidders own cost. Bidders shall ensure that mounting nuts and bolts does not become loose during normal operations.
- xv. After taking over custody of HCV with Cascades, upkeep and safety of the same is the responsibility of the Bidder. Any damages to HCVs due to whatsoever reason, shall be immediately reported to IRMEL and repair and maintenance of such damages shall be carried out by the Bidder on immediate basis at his risk and cost. Any leakage/ loose bolting/ loose clamp in the Cascade shall have to be immediately reported to IRMEL and further operations of CNG transportation shall have to be carried out only after rectifying the same.
- xvi. Any loss or damage to the items, such as valve/ knob/ fittings/ valve handle/ pressure gauge/ cylinder/ tube or any other component of Cascade, due to the reason attributable to the Bidder, shall be rectified/ repaired at the risk & cost of Bidder. However, maintenance of Cascade shall be in the scope of IRMEL. The vehicle may be required to be deployed at IRMEL Approved location for Hydro testing / Repairing as per the direction of EIC (Engineer In-Charge) and no consequential payment (other than the actual vehicle run (km), Fuel, Toll and RTO Charges as per agreed terms in the Tender) shall be made to the Bidder.
- xvii. On expiry or termination of the contract, Bidder shall unload and return Cascades and Vehicle (HCV) in good condition, to the satisfaction of IRMEL, at designated CNG Mother Station or IRMEL Stores or Owner specified address/location **within Seven (07) days** from the completion of Contract Period or Intimation from IRMEL or Termination of Contract.
- xviii. The Bidder is to ensure that the HCV deployed shall be fitted with two earthing connections and spark/ flame arrestor as per the RTO act and provided with wheel jack, tool kit, and spare wheel in good condition.
- xix. If in case, bare new HCV is purchased by IRMEL, mobile cascades for the same shall be issued to the successful bidder from IRMEL's designated stores/locations in respective GA's. The bidder must arrange for required logistics and manpower for fabrication, assembly, mounting and dismounting of cascades. The bidder shall be paid on per instance basis as per the respective line item of schedule of rates.
- xx. In case of bare new vehicle issued by IRMEL, the bidder shall fabricate required structure for mounting of cascade and carry out all the activities including VTS installation, rear view Camera with display console in driver's Cabin on HCV, to make the HCV road worthiness and operational for CNG transportation as per IRMEL's requirement.
- xxi. After the mounting of the Cascades, the bidder must endorse the Cascade with HCV at RTO and obtain all the necessary statutory permits that shall be required for the operation of HCV for the transportation



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of CNG. Payment of legal fees & Taxes statutory compliances shall be reimbursed by IRMEL as per actual on receipt of original supporting document.

- xxii. Bidder shall securely mount the CNG Cascade and make all necessary mounting arrangement including hiring of crane for lifting & handling of CNG Cascade and installation of necessary supporting stiffener at requisite positions. The complete job of mounting CNG Cascade up to the satisfaction of Owners' competent technical representative shall be completed within one (01) day of issue of the Cascade.
- xxiii. The Bidder must ensure that, before deployment, the HCV shall be painted as per color code and description provided by IRMEL. In addition, stickering of the statutory information (not limited to applicable latest central motor vehicle Act) and IRMEL Branding (As per IRMEL Requirements) on Cascade and HCV must be done by the Bidder before deploying the vehicles. Bidder is to ensure the HCVs to be maintained in aesthetically good condition and perform repainting at their own cost as and when required. The stickering and branding on the Cascade and HCV, as per IRMEL's requirements, shall be carried out by the Bidder prior to deployment of the vehicles, and the entire cost towards the same shall be borne by the Bidder.
- xxiv. Any subsequent re-painting and re-stickering, as and when required, shall be in the scope of The Bidder.
- xxv. The Bidder shall display a mark **"ON DUTY - IRM ENERGY LTD"** on all vehicles at his cost for making the vehicle conspicuously distinguishable from a distance. The Bidder shall not display the advertisement of his or other agency on the vehicle(s).
- xxvi. The Bidder shall be responsible for the compliance to "IRMEL's HCV filling and decanting procedures" at Mother station and Daughter-Booster Stations Respectively.
- xxvii. The Bidder shall operate vehicles at their own risk entirely and Owner shall in no case be held responsible for any damage to the vehicles while on IRMEL's duty. The Bidder shall maintain the vehicles in sound mechanical condition at all the times. The Bidder will rectify any defect noticed by him or notified by Owner immediately.
- xxviii. The HCVs shall have dedicated smart phone along with Internet Connectivity in the driver's cabin for mobile communication and for data logging on IRMEL's digital application. In case the Bidder fails to provide this facility, Owner shall make alternate arrangement and make the system operational and necessary payments in this regard shall be made directly to the Bidder after deducting such amount from the bills of the Bidder.
- xxix. Bidder shall supply and maintain 02 Nos. of fire extinguishers of ABC type (09 kg) on the HCVs as per the directions from IRMEL's EIC. The cost of supply and fabrication of steel material for mounting the extinguishers shall be borne by the Bidder. The Bidder will be responsible for safe custody of the fire extinguishers and in case of loss or damage of the extinguishers; the cost will be borne by the Bidder. Periodic inspection, testing and hydro test of Fire extinguishers provided with vehicle shall be in Bidder's scope. In addition to above Bidder shall supply a 500 Grams ABC type Fire Extinguisher in the front cabin of the vehicle. Fire extinguisher shall be maintained in good and in fit to use conditions at all the times during the operation. Bidder shall submit latest and updated certificates and documents of fire extinguishers to the owner.
- xxx. The Bidder shall be required to take Comprehensive Insurance Policy coverage for each HCV along with the cascade taken from a reputed Insurance Company on behalf of owner and shall keep in force during the tenure of the contract. (Cost for the same shall be in scope of owner). In case of shifting/replacement of the cascades, The Bidder shall ensure to make necessary actions for the amendment/revision/update



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in the existing insurance policy.

- xxxi. Bidder shall provide minimum two (02) Drivers per HCV. The Drivers must have at least Three (03) Years experience as a driver for transportation of CNG/Hazardous goods and possess a valid driving license, necessary permits to transport CNG/Hazardous goods all the time during the contract period.
- xxxii. Drivers should be able to read and write the local language and should be minimum 8th class pass. If driver is having a Driving License of "Heavy Goods Vehicle" then he shall be considered as 8th class pass.
- xxxiii. All drivers before commencing duties shall go for an induction program carried out by Site Engineer / Fire and Safety Supervisor of the owner. The drivers shall be issued STC Card (Safety & Technical Competency Card) after the completion of induction training. Drivers shall always carry the STC card as and when they are on duty.
- xxxiv. Driver should not consume any intoxicant or alcohol and smoking while on duty and has to follow traffic guidelines. Driver must maintain good behavior and follow safety rules and guidelines of the Owner as well as Local Road Transport Authority. Any misconduct in this regard shall attract penalty and temporary / Permanent suspension from IRMEL's operation across all GA.
- xxxv. Bidder shall deploy drivers only after consultation with IRMEL representative and shall not make changes in drivers' fleet without the knowledge of IRMEL. IRMEL shall hold discrete rights to terminate driver/drivers from the duty in case of malpractice or non-compliance to agreed terms/traffic rules/safety guidelines.
- xxxvi. All drivers before commencing duties shall go for an induction program carried out by Site Engineer / Fire and Safety Supervisor by the Owner. The drivers shall be issued STC Card (Safety & Technical Competency Card) after the completion of induction training. Drivers shall always carry the STC card when they are on duty.
- xxxvii. Driver should not consume any intoxicant or alcohol and smoking while on duty and must follow traffic guidelines.
- xxxviii. The Bidder shall arrange regular Health checkup of drivers and manpower involved in IRMEL Contract yearly of as per applicable statutory norms whichever is lower and submit related reports to IRMEL.
- xxxix. The Bidder shall Provide Police Verification Certificate for the drivers and manpower involved in IRMEL Contract.
- xl. The Bidder shall provide uniform to all HCV Drivers at its own Expense.
- xli. The Bidder shall conduct periodic training program to get the drivers fully acquainted with Owner Safety requirements. The Bidder will make the drivers available to Owner for training on defensive driving, first aid, firefighting, emergency preparedness and any other training which Owner considers necessary.
- xlii. New drivers prior to commencing their duties shall undergo an induction program carried out by EIC, supervisor/Fire & Safety Supervisor by Owner. In case complaint of driving quality and involved in accident, the driver should be replaced.

#### **4 DRIVER'S DISCIPLINE:**

- Lunch break of a maximum of 1/2 hour.



- Follow the posted speed limits not cross 50 km/hr.
- Don't operate / attend mobile phone call while driving.
- Don't drive if feeling unwell or tired due to fatigued condition.
- Don't drive under medication (consult doctor if so).
- Don't drive under intoxicated state (alcohol/ drug consumption).
- While re-fueling, switch off engine, cell phone and do not smoke.
- Get full knowledgeable of roads & areas of travelling route.

## **5 SUPERVISION**

- i. The Bidder shall ensure that his/ its representative ascertains proper feeding of CNG in Cascade & the same is maintained properly in the HCV and its nuts & bolts are duly fixed & tightened failing which any loss/ mishap shall be at his cost & risk. The Bidder shall indemnify the losses to IRMEL.
- ii. For effective supervision and better co-ordination. Bidder shall provide communication handsets to the supervisors for communicating with the drivers & movement control. The safety and security of the handsets will be the responsibility of the Bidder. In case of loss and damage, the Bidder shall be liable for repairing / replacing the sets immediately at his own cost. Bidder to provide contact details along with police verification of driver and helper.
- iii. In each shift Bidder shall depute adequate number of supervisors for smooth operation of transport services to the satisfaction of Engineer-in charge. Supervisors shall be provided with the conveyance and mobile phone.
- iv. As availability of CNG at CNG stations is Public Utility services, Hiring & Operating charges of Vehicle shall include services of Drivers, helper and Supervisors for round the clock basis (24\*7) for complete duration of the contract including Sunday and Holiday for all the vehicles. However, no personnel shall be allowed to work for more than duty hours as specified in the Central Motor Vehicles Act 1988 & Motor Transport Workers Act 1961, for which adequate number of personnel shall be deployed by the Bidder. Bidder should take care of all legal statutory compliances as per the tender norms and conditions.

## **6 TECHNICAL SPECIFICATIONS OF MOBILE CASCADES**

### **TYPE-I Cascades**

<b>Heavy Commercial Vehicle (HCV) of Minimum 10 Tons Payload</b>	
Cascade Water Liter capacity:	4500 WL
Length x Width x Height of Cascade:	5.209 m x 1.870 m x 1.965 m
Cascade Weight with CNG:	8.930 Tons



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Heavy Commercial Vehicle (HCV) of Minimum 10 Tons Payload	
Cascade Water Liter capacity:	5400 WL
Length x Width x Height of Cascade:	5.209 m x 1.870 m x 1.965 m
Cascade Weight with CNG:	9.980 Tons

**TYPE-III Cascades**

Heavy Commercial Vehicle (HCV) of Minimum 10 Tons Payload	
Cascade Water Liter capacity:	9024 WL
Length x Width x Height of Cascade:	2.991 m x 2.436 m x 2.583 m
Cascade Weight with CNG:	7.9 Tons

Heavy Commercial Vehicle (HCV) of Minimum 10 Tons Payload	
Cascade Water Liter capacity:	8800 WL
Length x Width x Height of Cascade:	2.991 m x 2.436 m x 2.583 m
Cascade Weight with CNG:	7.9 Tons

**Note:** The dimensions mentioned above apply to the cascades currently deployed by IRMEL; however, they may be subject to change depending on the design and size of the cascades procured in the future, and any updated specs will be shared with the vendor.

**7 VEHICLES MANAGEMENT & MAINTENANCE**

- i. The exact specification for hiring the vehicles shall be commensurate with the risks involved and should be maintained in accordance with manufacturer's recommendations. All vehicles must comply with relevant National Standards/RTA rules.
- ii. Vehicle shall be fitted with Rear view Mirrors (One on each side)/ Wipers/ Signal Lights/ Breaks/ Hand Breaks, Rear view camera with display console, VTS, Odometer, reverse horn, Hand torch and emergency kits / accessories shall also be provided. Suitable Iron or wooden wheel chokes to be kept in each vehicle and drivers have to use them when the vehicle is in rest position
- iii. The bidder shall provide HCVs fitted with a reverse-camera system, with a live video feed displayed on the vehicle dashboard. The model and make of the camera shall be subject to IRMEL's approval, which will be finalized in due course. The camera system must be reliable, durable, and compliant with relevant safety standards, ensuring clear visibility while reversing to enhance operational safety.
- iv. All drivers should check the vehicle condition on a daily basis as per manufacturer's recommendations/guidelines. Maintenance of the vehicles should be carried out through a manufacturer approved garage and the schedule of preventive maintenance should be in accordance with the manufacturer's recommendation. The vehicles need to be tracked for the no. of Kms. so that they have plied, and the service planned well in advance.
- v. Maintenance and repairs of vehicles on IRMEL business shall be carried out at OEM (Original Equipment Manufacturer) workshop or approved facilities.



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- vi. Vehicles may need replacement on a case-to-case basis in the event of accident to the vehicle or damages / recurring issues with the maintenance of the vehicles.
- vii. HCV Bidder shall provide wheel jack, tool kit and spare wheel(s) in good condition for each HCV.
- viii. Tires of the vehicles need to be replaced on the following conditions:
  - a) Completion of 50,000 Kms.
  - b) Frequent issues with the tube leading to deflations.
  - c) Showing heavy wear and loss of Tread.

## **8 SPECIFICATION FOR PAINTING/STICKERING**

- i. The mobilized fleet shall be painted as per colour code and description and logo as provided by IRM Energy Ltd in addition to the statutory display requirements to carry CNG.
- ii. The Bidder shall be responsible for providing suitable signboards / display boards during HCV movement on road or in parked condition.
- iii. Every HCV should be re-painted as and when required as directed by IRMEL EIC.
- iv. Painting of the colour codes and all other statutory displays has to be done by the Bidder at his own cost before deploying the vehicles for carrying CNG Cascades. Also, necessary logo, marking, painting, coding for transportation of flammable substance to be marked as per the norms.
- v. Each HCV to paint rear & side panels for display of company name and logo in combination to fulfil the requirements of display under the provisions of the motor vehicle Act, 1988 and Rule 129 to 137 (both Inclusive) of central motor vehicle Rules, 1989.
- vi. Painting and stickering and all other statutory displays have to be done by the Bidder at his own cost before deploying the vehicle for carrying CNG cascade.
- vii. HCV should be paint as per given design by IRMEL. Colour of HCV shall be intimated. Sample shade shall be provided to the Bidder after award of contract.
- viii. Soft copy of design should be provided by E-mail.
- ix. Safety signage & stickering also in the scope of Bidder.
- x. Design of Painting, boards & stickering will be finalized after awarding the work order.

## **9 VEHICLE TRACKING SYSTEM (VTS) & REVERSE CAMERA**

- i. GPS Automatic Vehicle Locating & Tracking system is required for monitoring the vehicles at real time and round the clock basis. For this purpose, the Bidder shall install Vehicle Tracking System in all the deployed HCVs. The vehicle tracking system shall have latest features such as Real-time / Live Location on map, Speed Monitoring, Distance covered in km, Route or path taken by vehicle, Stoppage Report, History detail of last 90 days, Ignition on/off, Inbuilt battery, Inbuilt memory, Stop your vehicle by SMS,





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SOS Button, SMS alerts, fleet management reports, Graphical reports for better and quicker understanding.

- ii. The safety and Security of the Vehicle Tracking System will be the responsibility of the Bidder.
- iii. Bidder shall also install necessary software on IRMEL's designated PC/Mobile for day-to-day monitoring. Bidder shall provide login credentials to IRMEL representatives for live monitoring and History records. IRMEL is not intended to purchase software but use only during contract period including extended period if any. One-time license fees if any shall be included in the vehicle tracking system and the same shall be borne by the Bidder.
- iv. Bidder shall ensure integration of VTS to the owners designated software application as per the owner's instruction.
- v. Operation and maintenance of the GPS Automatic Vehicle Locating & Tracking system throughout contract period including extended periods, if any, shall be done by Bidder at bidder's cost.
- vi. In case it is established that the VTS (Vehicle Tracking System) has been damaged by the Bidder's crew thus obstructing the monitoring of VTS in a particular HCV or in other cases of any defects, rectification of the same shall be at the Bidders' own cost. During such period Bidder must provide the alternate arrangements for the same.
- vii. The bidder shall provide HCVs fitted with a reverse-camera system, with a live video feed displayed on the vehicle dashboard. The model and make of the camera shall be subject to IRMEL's approval, which will be finalized in due course. The camera system must be reliable, durable, and compliant with relevant safety standards, ensuring clear visibility while reversing to enhance operational safety.

## **10 TRANSPORT SERVICES**

- i. Transport services shall be provided round the clock on designated routes and as per the schedule given by Engineer- In-Charge on all days. Transport services shall be governed as follows:
  - a. Disconnect the quick connect coupling of the Cascade after proper de- pressurization of the hose, as soon as storage pressure falls to a level decided by the Engineer-In-Charge/ Site Engineer and transport the Cascade to Mother/ filling stations.
  - b. Connect the Cascade with the filling hose by connecting quick connect coupling available at mother station for refilling after ensuring proper grounding.
  - c. Transport the filled mobile Cascades from mother/ filling stations to daughter booster stations and connect to station tubing through quick connect coupling.
  - d. Each HCV shall be provided with a logbook mentioning pressure level in the mobile Cascade in each bank, HCV initial & final pressures at mother station/ daughter Booster stations, Opening and closing reading of the mass flow meter have to be noted in the log book, in/out time to Mother station/ Daughter station, station name and any other details considered necessary for operation by IRMEL for each vehicle etc. to be filled at commencement of each trip.
  - e. Driver shall also record and immediately report for any leakage, burst disc failure during the trip. The





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logbook has to be signed by station manager/ technician for each trip.

- f. It is to ensure that while hoses are connected/ disconnected with the mobile Cascade/ HCV, nobody shall be inside the HCV and master switch is switched-off. Any kind of loss occurred due to negligence/ mistake of driver /helper during HCV operation shall be borne by the Bidder.
  - g. Daily filling & dispatch statement of previous day has to be prepared by the Bidder and the same has to be submitted at the respective control rooms of IRMEL by 10 AM very next day.
- ii. TREM CARD shall always be available with the vehicle.
  - iii. Bidder shall carry out all schedule maintenance of Vehicle and provide the copy of schedule maintenance record to IRMEL's Engineer-in-charge as and when asked for.
  - iv. Bidder shall plan schedule maintenance in consultation and prior permission of Engineer-in-charge.
  - v. No HCV can be taken out of service on account or repair and maintenance or otherwise without intimation to IRMEL's EIC. The same can be planned in consultation with the EIC and can be done without any Operational Loss to IRMEL such as during night hours/ during Station Shutdown for some other reasons etc.

## **11 INSPECTION OF HCVs**

- 1) The Owner or his representative shall have the right to inspect HCVs to confirm their conformity to the contract specifications. Regular inspection on monthly basis needs to be done by the Bidder in order to ensure that the vehicle is in safe condition and is fit for the purpose. Such inspections, however, does not absolve Contractor from his responsibilities towards safe and trouble-free operations. If any leaks are observed, it should be brought to the notice of Owner and get rectified immediately. Inspection records of the same should be maintained. Based on the inspection, any non-conformity shall be reported to Engineer In-charge immediately by Contractor/vehicle crew and the non- conformities shall be rectified within stipulated timeline as specified by IRMEL's EIC.
- 2) IRMEL shall depute their representative for inspection and condition Monitoring of deployed HCVs on Quarterly basis or as per schedule decided by IRMEL EIC. Bidder shall be responsible for maintaining the HCVs in good working condition all the time up to the satisfaction of IRMEL's EIC. Any non-compliance in this regard shall attract penalty as per terms and condition of contract.

## **12 PERMITS & CERTIFICATES**

- 1) Contractor shall procure, at his expense, all necessary permits, certificates and licenses required for free movement of Loading / Unloading of HCVs as per all applicable laws, regulations, ordinances and other rules in effect at the place where any of the work is to be performed, and Contractor further agrees to hold Owner harmless from liability or penalty which might be imposed by reason of any asserted or established violation of such laws, regulations, ordinances or other rules. Owner will provide necessary assistance to the Contractor to obtain the required permit.
- 2) Legal requirement and documentation:
  - The drivers shall keep the original copies of their licenses with them while driving the vehicles. The



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vehicle drivers shall ensure that their driving licenses are valid and renewed on time. The Contractor shall submit all records related to the driver qualification including validity of vehicle and driving license to the IRMEL EIC at the time of deployment. All the vehicle drivers must have valid Hazardous Goods Driving endorsed in Driving License.

- The legal documents such as Registration Book, Insurance, driving license, PUC, Fitness Certificate issued by Transportation Department (RTO), Tax certificate shall be kept in vehicle.

**13 ACCOMMODATION/ TRANSPORTATION/ MEDICAL**

The Contractor shall make his own arrangement for the accommodation of his personnel at respective locations and subsequent transportation arrangement for them from their place of residence to work place or any other place as required and Owner shall have no obligation in this respect. The company shall not be responsible for providing any medical assistance to the contract personnel.

**14 DISCIPLINE**

The Contractor shall be responsible for the discipline and good behavior of all his personnel deployed in the services contracted and should any complaint be received against any of his employee, he shall arrange to replace such persons within 24 hours of notice issued by the E-I-C. The decision of the IRMEL EIC in this matter shall be final and binding on the Contractor.

**15 IDENTITY CARD**

If required by Owner, the Contractor shall arrange to supply / renew identity card to his workforce at his own cost for security or for any other reasons. Those Contractor's personnel shall be required to carry their respective identity cards while on duty and produce the same on demand.

**16 DEPLOYMENT SCHEDULE**

Contractor will have to mobilize the number of HCVs **within 15 days** from the date of Letter of acceptance / LOI (Letter of Intimation) / Call Out Notice/ PO or as directed by Owner. The contract period shall be reckoned from the date of award of contract.

**17 DEDUCTION FROM CONTRACT PRICE**

All costs, damages, or expenses which the Owner may have paid, for which under the Contract the Contractor is liable, shall be cleared by the Contractor.

**18 LABOUR LAWS AND REGULATIONS**

Before starting of work, the Contractor shall obtain a license from concerned authorities under the Contract Labour (Abolition and Regulation) Act, 1970, and furnish a copy of the same to the Engineer-in-Charge.

- **Labour License:**

Conditions of Contract, the Contractor shall also comply with the following:

- ii. The Contractor shall also comply with the provisions of Building and Other Construction Workers



(regulation of Employment and Conditions of Service) Act 1996[BOCW (RE&CS) Act 1996] and Building and Other Construction Workers Welfare Cess Act, 1996 and all rules, regulations, notifications issued thereunder as amended from time to time including provisions of registration of establishment of Contractor hours of work, welfare measures and other conditions of service of building workers, safety and health measures etc., wherever applicable.

- iii. All the terms and conditions pertaining to compliance of labour laws contained in the GCC shall also be applicable mutatis mutandis to the BOCW (RE&CS) Act, 1996 and Building and Other Construction Workers Welfare Cess Act, 1996 and the rules thereunder.
- iv. The above conditions will be applicable to all the Contractors performing "building or other construction work" as defined under BOCW (RE&CS) Act, 1996 subject to other provisions of the Act.
- v. Every worker engaged by the Contractor should be enrolled under the following scheme:
  - Pradhan Mantri Jeevan Jyoti Bima Yojna (PMJJBY)
  - Pradhan Mantri Suraksha Bima Yojna (PMSBY)

Under the two schemes, applicable annual premium amount (presently Rs. 342/- per person) shall be considered by the prospective bidder while submitting the price bid. Proof of payment towards the above two scheme shall be submitted by the Contactor to EIC for verification of the same from time to time.

## **19 CLEANING OF HCV**

The Contractor shall take care for proper cleaning of HCVs daily upto the entire satisfactions of the Engineer-in-charge.

## **20 FITNESS CERTIFICATES OF VEHICLES**

Contractor shall be required to submit recent Fitness certificates of the vehicles from RTO/ OEM of vehicle being used. These certificates should indicate all data / results of the vehicles as required in relevant International Standard.

## **21 PENALTY CLAUSE**

Following penalties shall be imposed to the bidder for the non-compliances or deviations observed from the technical scope of work specified above. However, in no case such penalty shall exceed the amount equivalent to the 50% of the total monthly invoice amount. The Owner reserves the right to deduct the penalty amount from the monthly running bills.

- 1) For Non availability of CNG Transportation services due to the reason attributed to the bidder, a penalty of Rs. 300/- per hour shall be levied for such unavailability for More than 4 hrs. and up to 12 hrs. Continuous non availability of HCVs beyond 12 Hrs. and upto 24 Hrs. shall attract a penalty of Rs. 6,000/- per vehicle per instance. A penalty of Rs. 7,200/- per day shall be levied for any non-availability of vehicle for a period more than 1 day (24 Hrs.) for the reasons attributed to the bidder.
- 2) The reasons for non-availability of HCV's attributed to the bidder are as follows but not limited to:



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- HCV Breakdown, Accidents due to over speeding/evasion of traffic rules.
  - Non availability of driver shall be considered as non-availability of HCV.
  - Vehicle detain by traffic Police for violating traffic rules and not having statutory documents.
  - HCV barred from operation due to driver not carrying valid original license.
  - HCV barred from operation due to its Poor Maintenance.
  - HCV crew resorting to any disturbances or unrest or illegal strike either at Mother stations/ Daughter stations by non-placing the Vehicle for loading/unloading at Mother stations/ Daughter stations leading to disruption of operation.
- 3) Non- Availability /Breakdown of the vehicle Tracking System - a penalty of Rs. 500/- per day will be levied.
  - 4) If any civilians found in the vehicle other than the authorized personnel during the transit or at station, a penalty of Rs. 2000/- per Instance shall be levied and repeatedly offended driver will be suspended from the duty for a period of three months.
  - 5) If any driver or person on board of the HCV is found consuming any intoxicant, alcohol, smoking, or any bad substance, while on duty, a penalty of Rs. 2000/- will be Imposed first time. Repeat offender will be suspended permanently.
  - 6) The penalty charges imposed by R.T.O. for violating traffic rules shall be borne by the bidder/ transporter. Additionally, a penalty of Rs. 1000/- per such instance shall be levied by IRMEL for violating traffic rules.
  - 7) If a driver or attendant are found without uniform or ID Card or PPE's while on duty, a penalty of Rs. 500/- Per day per person will be imposed.
  - 8) Penalty of Rs.1500/- against non-availability of Fire Extinguishers in good working conditions per instance per vehicle.
  - 9) A Penalty of Rs. 1500/- Per instance will be imposed if Vehicle Speed exceeds the maximum limit as instructed by IRMEL.
  - 10) Bidder Shall Take Prior Permission for shifting of IRMEL's cascade from any of the existing HCVs and any alteration in cascade setup or changeover without IRMEL's prior approval shall attract a penalty of Rs. 2,000/- per Instance and in the event of any such act, the bidder shall restore the cascade at it's original HCV at the earliest and borne all such cost attributed to the restoration.
  - 11) The Bidder shall assign supervisor as required by IRMEL for the purpose of coordination with IRMEL on 24 X 7 round the clock basis for Vehicle Movement, Unavailability of supervisor shall attract a Penalty of Rs.2,000/- per day.



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- 12) Costs as per actuals shall be recovered from the bidder in case of any damages/losses to IRMEL Asset (Mobile Cascade, Fill/ Decanting Post, Civil Structure, etc.) during the service period.
- 13) Each HCV shall be equipped with a smart mobile with internet connectivity at all point of time, in case the vendor fails to provide this facility, a penalty of Rs. 1500/- Per HCV per instance shall be levied.
- 14) Non adherence to statutory and regulatory compliance shall be considered as serious violation of terms and conditions of the contract. If the Bidder continuously fails in fulfilling the compliances, owner reserves the right to take actions as deemed fit including termination of the contract as per the Tender condition.
- 15) PENALTY AGAINST NOT MEETING MINIMUM VEHICLE MILEAGE CONDITION:
- CNG as a fuel shall be provided by IRM Energy Limited for regular operation of the HCVs. Any shortfall in agreed mileage will be recovered from the running monthly bills of the transporter.
  - Average Mileage of 5.5 KM per KG of CNG dispensed will be considered for reconciliation purpose.
  - Formula for working out shortfall will be as follow:

Sr No	HCV No	Month-							
		Total Distance Travelled (KM)	Total CNG Filled (KG)	KM/KG (As per PO)	Average KM/KG	Fuel Required (KG)	Excess/ Less Fuel (KG)	Average Fuel Rate (INR)	Debit Amount
A	B	C	D	E	F= C/D	G= C/5.5	H=D-G	I	J= I*H
1									
2									
3									
4									
5									
6									

Where:

- E: Minimum Monthly Average Mileage of HCV as per the work Order i.e. 5.5 Km/Kg.
- I: Prevailing RSP in INR of CNG in the Billing month of respective GA.