

GOVERNMENT OF ODISHA

TRANSPORT DEPARTMENT

TENDER CALL NOTICE

Letter. No.- 13398 /LX-229/2015/TC Date: 09/10/2015

NOTICE INVITING TENDER FOR PURCHASE AND INSTALLATION OF DRIVING
TRAINING SIMULATOR

Government of Odisha proposes to purchase appr to instructors. Detailed specifications can be obtained from the office of the undersigned either in person on payment of **RS.10,000/-**(Rupees ten thousand only), non-refundable towards cost of the tender paper or from the website <http://orissatransport.nic.in> on or after **10/10/2015**.

Intending firms may submit the tender along with the documents showing previous experience of supply and installations, product specifications, cost of equipment with terms and conditions of supply, and training to the trainers / operators of Transport Department on or before **30/10/2015**.

The tender must be accompanied with an E.M.D. (refundable) of **Rs.5,00,000/- (Rupees Five lakhs only)** in shape of a Bank Draft/BG drawn in favour of "Transport Commissioner, Odisha, Cuttack" payable at Cuttack. The cost of tender papers, where bidder has downloaded it from the website, shall be deposited in shape of a non-refundable Bank Draft of **Rs.10,000/-**, drawn in favour of "Transport Commissioner, Odisha, Cuttack" payable at Cuttack along with the tender documents. Tender documents must be submitted by hand delivery or Registered Post in sealed cover to the Transport Commissioner, Odisha, 6thFloor, Rajaswa Bhawan, Cuttack - 753002 on or before **01:30 P.M. hours on 30/10/2015**. The technical bid will be opened on **30/10/2015 at 03:00 P.M.** hours in presence of the representatives of the tenderer (if present). The date and time of opening of the commercial bid shall be intimated to the technically qualified bidders. Documents received in incomplete shape or beyond the stipulated period shall not be entertained under any circumstances. The undersigned reserves the right to accept or reject any or a" tenders without assigning any reason thereof.

Sd/-

Transport Commissioner
Odisha,Cuttack

TENDER

FOR

PURCHASE OF LIGHT MOTOR

VEHICLE

DRIVING SIMULATOR

TRANSPORT COMMISSIONER, ODISHA
6th FLOOR, RAJASWA BHAWAN, CUTTACK

INTRODUCTION

Transport Department, Government of Odisha proposes to purchase approximately 10 nos. of Light Motor Vehicle Driving Testing Simulator for use in various Regional Transport Offices across Odisha.

2. SPECIFICATION

The simulator systems must satisfy the following specifications:

1. Options to configure for light motor vehicle setup.

Mock cabin setup with option to configure based on Tata Indica/ Maruti Alto/ Mahindra Commander control panel resembling meter panel of any of the above car having driver adjustable seat and with parts that are fully activated and simulated as follows:

- a) Ignition Key
- b) Dashboard
- c) Accelerator Pedal
- d) Brake Pedal
- e) Clutch Pedal
- f) Gear Shift Lever
- g) Gear Box Assembly- Six Speed Manual Gear Box
- h) Steering Wheel
- i) Hand Brake
- j) On-Screen Wipers
- k) Direction Indicators
- l) Actual Adjustable Driver's Seat with Provision of Seat Belt
- m) Instrument Cluster activated with speedometer, indicators, handbrake indicator, hazard warning indication, temperature meter, etc...
- n) Side and Rear view mirror Operations on the simulator screen
- o) Meter Panel of a Car
- p) Sound Effects: should be capable of synchronizing sound with action of followings-
 - I. Engine Start
 - II. Engine Idle Condition
 - III. Other Vehicles
 - IV. Speed at Different Gears
 - V. Accelerators

VI. Brake Operations

VII. Tyre Burst

VIII. Horn

IX. Indicators

X. Environment Effects

XI. Stall

XII. On Screen and Voice Assistance in English, Hindi/Local Languages

2. Seating arrangements and accessibility as per actual car dimensions with driver seat.
3. Visual display station having 3nos LCD monitors each of size 20" setup for a visual display giving 120° field of view from driver's eye to be provided with realistic picture with following parameters: Depth, Magnification & 3-D.
5. Instructor Station: The simulator should have provision for an add-on instructor station for an instructor to control the training exercises by:
 - a) Registration of Trainee
 - b) Setting exercises for a trainee
 - c) Start and Stop of exercises
 - d) Analysis of individual driver records
 - e) Performance analysis, etc.
6. Customized Scenario settings-The simulator should enable the instructor to customize the following in various combinations including Selection of routes , Daylight conditions , Weather conditions , Traffic density
7. Should have visuals with following standards:

Visual Stations- LCD monitors for visuals, 3.0 Ghz. or more clock speed, 80GB or more HDD storage any latest available Windows operating system, Graphic Card of a minimum of 2GB, RAM of 4GB or more.
8. Latest developed and user friendly software.
9. Driving in Metropolis / Rural / Highway / Tunnel Ghat / Cross Country Driving. Off-road driving options should include options for driving in cross country conditions and terrain having muddy, bumpy, rocky, "kuchha" road conditions.

Please note: THE TERRAIN SHOULD BE DEPICTING INDIAN ROADS AND ROAD MARKINGS , TRAFFIC SIGNALS & ROAD SIGNS
10. Settings for day and night driving conditions and weather conditions of rain, fog, dust storm weather conditions.

11. TRAINING CURRICULUM-

A-Features- Progressive training modules as follows to cover comprehensive training curriculum starting from acquiring basics to advanced driving skills developed on an actual city terrain and not test tracks.
Training cues in Hindi , English as Guiding aid to learners in clear practice areas & written audio messages.

Record and replay option for easy and self evaluation.

B-Training Chapters / Lessons-

I. Cockpit Drill (Reply option)

- (a) Pre Checks
- (b) Foot controls
- (c) Hand Controls
- (d) Light Switches
- (e) Instrument Cluster

II. Basic Training

- (a) Driving off
- (b) Stopping Safely
- (c) Changing Gears
- (d) Mastering Steering
- (e) Emergency stopping

III. Advanced Training

- (a) Emerging left and right
 - (a) Uphill
 - (b) Downhill
 - (c) Gears
 - (d) Maneuvering around parked cars

C-DANGEROUS SCENARIOS- Simulator should have multiple driving scenarios giving learner an opportunity to drive in different risky situations.

D-PERFORMANCE EVALUATION- Simulator to have provision for evaluating driver throughout the training process. The Evaluation criteria should be as per Rules of Road Regulations (RRR) and Indian Motor vehicle Act.

E-Report Generation- Simulator to have provision for evaluating driver throughout the training process .The Evaluation criteria should be as per Rules of Road Regulations (RRR) and Indian Motor vehicle Act.

A printed report should be generated at the end of each session. The system should also produce and print a consolidated report of the drivers' entire training period.

Software shall have options to generate reports for individual performances data wise and trainee wise, graphical representations of trainee performance.

Reports on the following minimum points should be generated.

- Evaluation of Road Rules,
 - Evaluation of vehicle operations
 - Evaluation of safety parameters
12. Must have evaluation options for evaluation of the performance as per Central Motor Vehicle Rules 1989 for performance analysis of individual drivers based on the following parameters:
- a) Time taken to take off foot from accelerator to brake
 - b) Right gear v/s right speed
 - c) Clutch riding analysis
 - d) Collision detection with other objects
 - e) Analyzing over speeding, Lane violation, Gear shifting procedures
 - f) Warnings on incorrect starting procedures, Driving on speed breakers
 - g) Should be capable of finding different commonly committed errors, which can be recorded and replayed back.
13. Software shall have options to generate reports for individual performances data wise and trainee wise, graphical representations of trainee performance, fuel economy result.
14. Should have playback options for review by the driver.
15. Collision detection system should have provision for simulating vehicle collision under low, medium and high traffic and different road conditions.
16. Self-test / Diagnostics for hardware. Calibration of the vehicle-The Simulator should be capable of self maintenance including calibration and diagnostics . The systems should have calibration of the following controls for easy self maintenance including Steering , Brake, Accelerator, Clutch

17. DRIVER TESTING SOFTWARE CONFIGURATION-

A-Driving Ability and Clinical Test

Driving Ability and Clinical Test module to test the driver.

Module should include 5 Different Test as follows;

- a. Judgment Test
- b. Reaction Test
- c. Anticipation Test
- d. Colour Vision Deficiency Test

B-Driving Skill Testing in Controlled Terrain

This Module should have tests in driving on a virtual test track with minimum of 10 test variables like:

- Parking exercise,
- Reverse exercise,
- S bend,
- 90 Deg Turns,
- 3 point turns,
- Slopes – uphill & downhill,
- Road Junction, etc.
- Pedestrian crossing

The Trainee should be tested under a single test on all the variables.

18. **Product Reliability:** Life of the system should be minimum 10 years and it should be able to withstand 10 hours of operation per day.

3. **Minimum Eligibility Criteria**

1. The major components of the simulator like the software solution and hardware should be indigenously developed and details of the factory/ workshop should be submitted along with the tender. Any customisation required over the next 10 years should be possible with no dependencies on any external company or institution.
2. The tenderer should be specialist in surface simulators and should have minimum of 3 years operational business with a sales of over 3 crores p.a for last 2 years from Driving Simulators. Proof of Sales details of Driving Simulators should be enclosed.
3. Minimum of 200 Driving Simulators should be installed in India within the last 3 years.
(Installation Certificate to be attached)
4. Driving Environment should be of India.

4. **GENERAL INSTRUCTIONS:**

1. All correspondence/ enquiry in this regard should be submitted to the following in writing by *fax/ post/courier*:

Transport Commissioner, Odisha,
6th Floor, Rajaswa Bhawan,
P.O: Chandini Chowk, Cuttack. - 753002
Tel: 0671-2507042
Fax-0671-2507238 E-Mail: ori-transportcomm@nic.in

1. The bidder intending to participate in the tender shall be an original equipment manufacturer of Driving Testing Simulator.

2. The tenderer is to supply and install the goods as per the specifications at the RTO sites in the state of Odisha to be indicated along with the purchase order.
3. The firm shall submit VAT/Sales Tax clearance certificate from the competent authority along with the tender paper. The bidder shall submit latest and updated ITCC/STCC from competent authority.
4. The firm shall train at least 3 technical officers of the department to be nominated as trainers on its own cost and one technical person for each simulator unit to be engaged by the Department.
5. Each bidder is required to deposit an earnest money (**EMD**) of Rs.5,00,000/-(**Rupees Five lakhs only**) in form of Bank Draft/Bank Guarantee drawn from a nationalized Bank in favour of "Transport Commissioner, Odisha, Cuttack" payable/invocable at Cuttack. The earnest money for the unsuccessful bidder shall be returned on finalization of the tender without any interest. Firms registered with DGS&D and NSIC who are exempted from payment of EMD are allowed exemptions from payment of EMD if the product being quoted is actually manufactured by them and the product is registered with these agencies. To avail EMD Exemption, the firms should submit a legible photocopy of Valid Registration Certificate of the products manufactured and registered with DGS&D and NSIC in a separate envelope along with the tender.
6. The bidder should submit the tender in three separate envelopes covering i) technical bid, ii) commercial bid and iii) EMD respectively giving full details with supporting documents as required for technical bid. Tenders giving insufficient particulars are liable to be rejected.
7. The **Technical bid** envelope should contain the technical details about the bidder, such as document showing manufacturer office address, contact person, telephone / fax numbers, service network available inside India, terms and conditions of supply, warranty and payment mode, etc. and the specification of the items offered with forwarding document as **Annexure-I**. The envelope should be sealed and superscripted with **"SIMULATOR TENDER - TECHNICAL BID"**.

8. The bidder may be required to make a live demonstration of their quoted product supplied to any major customer at their own cost to 2-3 designated technical officials of STA, Cuttack.
9. The bidder should submit the Commercial Bid in **Annexure-II** in a separate sealed envelope containing item wise unit value and its total value offered. The envelope should be sealed and superscripted "**SIMULATOR TENDER - COMMERCIAL BID**". This envelope will be opened in the presence of agency's representative (one per agency) for only those agencies who have been found technically acceptable. The price shall include all taxes, cost of installation and warranty for 3 years from the date of installation at the site. Annual maintenance contract rate also must be quoted for subsequent 3 years after expiry of warranty period.
10. The envelope containing technical bid and commercial bid along with the envelope containing EMD may be kept in an outer cover sealed and superscripted "**TENDER FOR SIMULATOR**" and submitted to the office of Transport Commissioner, Odisha, 6th Floor, Rajaswa Bhawan, Cuttack by **30/10/2015** on or before **01:30P.M.**
11. All the "**Technical Bid**" of the tenders will be opened on **30.10.2015 at 03.00 P.M** at the office of the Transport Commissioner, Odisha, 6th Floor, Rajaswa Bhawan, Cuttack in the presence of the bidders or their authorized representatives, if present, at the specified place, date and time.
12. The Transport Commissioner reserves the right to reject any or all of the tenders without assigning any reasons.
13. The rates, finalized through this tender, will be operative for a period of at least 6 months.
14. The submission of more than one tender by the same agency under different name is prohibited. Such tenders shall be rejected

and no representation or correspondence shall be entertained with the vendors.

5. QUALITY STANDARD:

- a) The company and the simulator must have been approved by DGQA and a certificate mentioning the same must be enclosed.
- b) The company should have been in business of manufacturing, designing and developing such simulators for last 5 years.
- c) The company should have supplied at least 50 units of driving simulators to various State Transport Corporations, Police Forces and State Transport Authorities. A proof of satisfactory after-sales-service should be enclosed from at least three major customers in India.
- d) The firm should be a CMMI level-3 certified.

6. GENERAL TERMS AND CONDITIONS:

1. Tenders should be in accordance with the requirements of the general terms and conditions and to the technical specifications. Tenders found incomplete, unsealed, without signature and not as per instructions will be rejected.
2. The E.M.D. shall be forfeited if a bidder withdraws his bid during the period of bid validity. The EMD amount will be returned back to the successful bidder on submission of Performance Bank Guarantee for 6 months.
3. The price and conditions of the offer should be valid for at least a period of six months from the date of tender opening.
4. Value of each item with total and grand total of whole tender should be written clearly. Corrections or overwritten amounting to unreadable may disqualify the tender. Clerical and arithmetical mistakes may result in rejection of the tender.
5. The tenderer shall make his own arrangements for supply, installation and training of simulator units at the purchaser's site.

6. The site address will be furnished to the successful bidder along with the purchase order.
7. The prices quoted should be firm and inclusive of all duties like VAT, entry tax, excise entry tax and any other taxes / levies.
8. The successful bidder shall furnish a performance bank guarantee (PBG) of 5% of the total contract price before the purchaser. The PBG should cover due fulfillment by the vendor of all the terms and conditions of the contract inclusive of guarantee to the purchaser, the delivery, installation / commissioning of equipment. The bank guarantee shall remain valid till the end of warranty period.
9. The successful bidder will have to rectify any defects during the warranty free of cost within 72 hours of receipt of complaint failing which a penalty at the rate of 0.5% of the cost of equipment will be charged per week or its fraction from the supplier.
10. Payment will be made in two phases i.e. (i) 90% of the contract price on successful delivery & installation at site with demonstration and training thereof and on submission of bill and (ii) balance 10% will be released after 90 days of successful use of the simulator from the date of installation.
11. The successful bidder should deliver all the goods in good condition within 60 days of issue of the purchase order. Delay in supply in the part of the supplier shall be treated as delayed in the delivery of the goods. A penalty @ 0.5% of the material cost will be charged per week of part thereof. For any delay of delivery of materials beyond 60 days of issue of purchase order, the purchaser reserves the right to cancel the order.
12. The materials shall conform to a National / International standard as applicable.

Transport Commissioner
Odisha, Cuttack

ANNEXURE-I

TECHNICAL BID:

Name of the Bidder: _____

Address

for

Correspondence:

Telephone No.: _____

Fax No.: _____

e-Mail: _____

Required Specification of Driving Simulator:

Sl. No.	Specification Required	Specification Offered by Vendor
1.	Make (Vendor to specify)	
2.	Model (Vendor to Specify)	
3.	Option to configure for light motor vehicle set-up as per SI No.1 of Technical specifications at Page-1	
4.	Full vehicle cabins with Drivers console with realistic controls like break, clutch, steering, dash board, gear lever, rear viewing facility	
5	High resolution LCD (big) displays with user setup display options, three screens of size 20"-22 inches with 120 degree coverage of the vision of the driver.	
6	Should have visuals with realistic standard	

7	Intuitive and user friendly software	
8	Driving in Urban/ Rural/ Highway/ Tunnel/ Ghat situations	
9	Settings for day and night driving facilities with setting for reduced visibility situation and different weather condition	
10	Must have evaluation options for evaluation of the performance	
11	Software shall have options to generate reports for individual's performances	
12	Should have playback options for review by the driver	
13	Collision detection system in compliance to SL No.12 of General specification at Page-3.	
14	Self test/ Diagnostics for hardware	
15	Configurable naming facilities in city drive areas in compliance to SL No.14 of General specification at Page-3.	
16	Road sign and Traffic light indicators	
17	Side-view and Rear-view Mirrors	
18	Reporting facility of vehicle malfunctioning	

19	Off-road driving options (Kacha/Village/Cross Country Roads	
	Specification for Driver's Station	
20	Mock cabin setup with option to configure with Tata Indica, Maruti Alto, Mahindra Commander control panel resembling meter panel of any of the above car having driver adjustable seat and one station for the instructor in terms of software with parts that are fully activated	
21	Actual vehicle instrument panel	
22	Forward and reverse gears	
23	Adjustable driver's seat	
24	Provisions for driver's safety belt	

- Vendors specifying higher specifications are acceptable.

Signature of the Authorized Person

Name & Address of the Authorized Person

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Office Seal

ANNEXURE-II

COMMERCIAL BID:

Name of the Bidder : _____

Address for Correspondence : _____

Telephone No : _____

Fax No. : _____

e-Mail : _____

SCHEDULE OF RATES

Sl.No.	Item Description with Make & Model of Driving training simulator	QTY.	Basic Unit Price inclusive of all levies & Charges (In Rs.	Any other levies/Charges (In Rs.	Composite Unit Price inclusive of all levies & charges (In Rs.)	Total Price inclusive of all levies & Charges (In Rs.
1	Driving training simulator	10				
2	Post warranty AMC charges for 3 years (lumpsum inclusive of service tax)					

Office Seal