

Clarification by KSRTC:-

Tender No. ITS-KSRTC-Mysore/2015/Tender Notice No. 001

Work Description:- Supply, Installation, Testing and Commissioning of Motion based Bus Driving simulator for KSRTC at HASSAN and HUBLI, Karnataka, India, with Maintenance during 36 months warranty period and Post Warranty Maintenance for 5 Years

SL No	RFP Terms	Reference from RFP	Query	Clarifications from KSRTC
1	The bidder(s) shall be a manufacturer of Motion Based Bus Driving Simulator for preceding 5 years and shall have their own facility for design, development and a quality assurance programme.	Invitation for Bids Clause No. g 4.1	These both the clauses are contradictory to each other. Please confirm which clause we have to refer for this tender.	<p>Please refer clause 9.3 of ITB where in it is mentioned that in case of inconsistency the actual bidding documents shall prevail. The Prequalification criteria are as indicated. at 4.1 to 4.3 including 6.1 of BDS. The PQ Criteria is reproduced below..</p> <p>The Bidder must meet the following qualification criteria as on the last date of submission of this bid. The bidder must furnish documentary evidence to establish its qualification.</p> <p>4.1 The bidder(s) shall be a manufacturer of Motion Based Driving Simulator used in mass public transport over land for preceding 5 years and shall have their own facility for design, development and a quality assurance programme.</p> <p>4.2. Bidder shall have designed, manufactured, supplied, tested and commissioned minimum five numbers of Motion based Driving Simulators, employing at least three degrees of freedom and used for training of drivers of at least 50 drivers of vehicles used in mass public transport over land each, hereinafter referred to as qualifying project, in last 5 years preceding the final date of submission of bid, to any Private / Government organization and should be in operation. Bidders should submit the documentary evidence as specified in the ITB and BDS</p> <p>4.3 (i) The Bidder should have a minimum average annual turnover equivalent of Rs. Five crores (INR fifty million) in the preceding (last) three complete financial years immediately preceding the bid submission date and should submit documentary evidence as specified in the ITB and BDS</p> <p>4.3 (ii) The Bidder must have positive Net Worth in the last financial year preceding the bid submission date.</p> <p><b>JOINT VENTURE IS NOT PERMISSIBLE FOR THIS TENDER</b></p> <p>ITB 6.1 (C)If the Bidder proposes to use Sub-contractors for the provision of certain key services, written agreements by the proposed firms to provide these services in case of contract(s) resulting from this bidding are required for the following types/ categories of services</p> <ul style="list-style-type: none"> <li>&gt; Installation and System Commissioning</li> <li>&gt; Maintenance Services during POST WARRANTY MAINTENANCE Period</li> <li>&gt; On-site support personnel during POST WARRANTY MAINTENANCE Period</li> </ul> <p>Please also refer clarification at SL No. 32 below</p>
	The bidder(s) shall be a manufacturer of Motion Based Driving Simulator used in mass public transport over land for preceding 5 years and shall have their own facility for design, development and a quality assurance programme.	Bid Data Sheet Clause No. ITB 6.1 (a) 4.1		
2	Bidder shall have designed, manufactured, supplied, tested and commissioned minimum five numbers of Motion based Driving Simulators used for training of drivers of a fleet of at least 50 drivers of vehicles used in mass public transport over land in last 5 years preceding the final date of submission of bid, to any Private/Government organization and should be in operation. Bidders should submit the documentary evidence as specified in the ITB and BDS	Invitation for Bids Clause No. g 4.2	These both the clauses are contradictory to each other. Please confirm which clause we have to refer for this tender	<p>Please refer clause 9.3 of ITB where in it is mentioned that in case of inconsistency the actual bidding documents shall prevail. The Prequalification criteria are as indicated. at 4.1 to 4.3 including 6.1 of BDS.</p> <p>Please refer clarification coloum at SL No 1 above.</p>
	Bidder shall have designed, manufactured, supplied, tested and commissioned minimum five numbers of Motion based Driving Simulators, employing at least three degrees of freedom and used for training of drivers of at least 50 drivers of vehicles used in mass public transport over land, each hereinafter referred to as qualifying project, in last 5 years preceding the final date of submission of bid, to any Private / Government organization and should be in operation. Bidders should submit the documentary evidence as specified in the ITB and BDS	Bid Data Sheet Clause No. ITB 6.1 (a) 4.2		

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3	Bid document Fee: Interested bidder who wish to participate shall pay bid document fee of INR.10000 or US\$ 200 (inclusive of Taxes) as specified in the ITB and BDS	Invitation for Bids Clause No. m	Please confirm In whom favour bidder need to submit cost of bid document.	DD in favour of CAO-FA KSRTC , Bangalore									
4	Bid Security (Online) : Interested bidder who wish to participate shall pay Online Bid security of Rs. 500/- or 8 USD through e-payment mode through any of the 5 options mentioned above, in the e-portal	Invitation for Bids Clause No. n	These both the clauses are contradictory to each other. Please confirm which clause we have to refer for this tender.	Both the bid security (online ) of Rs.500 or 8 US Dollar to be paid through e-payment mode as explained in clause K of IFB and Bid security of INR 1 Million in the form of DD in favour of CAO-FA, KSRTC, BAngalore are mandatory apart from Bid processing fee and Bid document fee									
	Bid Security: Bids need to be secured by a bid security of INR 1.0 Million and shall be paid as specified in the ITB and BDS.	Invitation for Bids Clause No. o											
5	Bids need to be secured by a Bid Security. The amount of the Bid Security to be submitted separately shall be as under:	Bid Data Sheet Clause No. ITB 17.1 (b)	Please confirm which kind of bid security need to be submitted Online bid Security or Bid Security.  Please allow the bidder to submit the Bid Security in form of Bank Guarantee for Rs. 10,00,000/-.	Both the bid security (online ) of Rs.500 or 8 US Doller to be paid through e-payment mode as explained in clause K of IFB and Bid security of INR 1 Million in the form of DD in favour of CAO-FA, KSRTC, BAngalore are mandatory. Bid Security in the form of Bank gaurantee is not acceptable..									
	<table border="1"> <thead> <tr> <th>Description</th> <th>Bid Security Amount (in INR/US\$)</th> <th>Mode of Payment</th> </tr> </thead> <tbody> <tr> <td>Online Bid Security</td> <td>INR 500 or US\$ 8</td> <td>through any of the 5 options only in the e-portal:  <ul style="list-style-type: none"> <li>• Credit Card</li> <li>• Debit Card</li> <li>• National Electronic Funds Transfer (NEFT)</li> <li>• Net banking</li> <li>• Over the Counter (OTC)</li> </ul> </td> </tr> <tr> <td>Bid security</td> <td>INR 1000000 or US\$ 16667</td> <td><i>in the form of a demand draft</i> favouring "CAO-FA, KSRTC", payable at Bangalore, India</td> </tr> </tbody> </table>				Description	Bid Security Amount (in INR/US\$)	Mode of Payment	Online Bid Security	INR 500 or US\$ 8	through any of the 5 options only in the e-portal: <ul style="list-style-type: none"> <li>• Credit Card</li> <li>• Debit Card</li> <li>• National Electronic Funds Transfer (NEFT)</li> <li>• Net banking</li> <li>• Over the Counter (OTC)</li> </ul>	Bid security	INR 1000000 or US\$ 16667	<i>in the form of a demand draft</i> favouring "CAO-FA, KSRTC", payable at Bangalore, India
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Bid security	INR 1000000 or US\$ 16667	<i>in the form of a demand draft</i> favouring "CAO-FA, KSRTC", payable at Bangalore, India											
6	Letter of Bid and other documents as detailed in ITB Clause 13.1 and the corresponding BDS provision shall be addressed to Purchaser before uploading. The bid shall bear the Project Name, Invitation of Bids (IFB) title and the Items.	Bid Data Sheet Clause No. ITB 20.2 (a) 2	As, we know that bidder need to submit the complete tender in electronic form & only following documents need to be submitted manually before opening of tender.  (1) Power of Attorney (2) Bid Security (3) An affidavit vouching for the correctness of the information furnished in the bid and correctness of documents uploaded with the bid. (4) Cost of Bid Document  Please confirm.	Yes									
7	A bidder wishing to submit bids for more than one lot shall upload the bid separately for each lot.	Bid Data Sheet Clause No. ITB 20.2 (a) 3	we understand that this clause is not applicable for this tender.	Yes									
8	The technical quality evaluation categories and the features to be evaluated within each category are as follow:	Bid Data Sheet	Please confirm whether bidder need to submit five motion based simulator from 5 different customer/client or 1 project having 5 motion based simulators.	The requirement is that the bidder shall have Designed, Manufactured, Supplied, Tested and Commissioned a minimum of 5 No. of Motion based Driving Simulator employing at least 3 degrees of freedom supplied to one or more agencies.									
	Five qualifying motion based simulator projects, as given clause 4.2 of BDS	Clause No. ITB 28.5 A1 (i) & (ii)											
	More than five qualifying motion based simulator projects as detailed above												

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9	Taxes and Duties (GCC Clause 14)	Special Condition of Contract Clause No. GCC 14.3	We understand that Custom Duty & Excise Duty will be exempted for this tender & requisite custom duty & excise duty certificate will be given by purchaser to avail the benefits.	Bidders are advised to refer to the relevant notifications of the central board of excise and customs, Govt of India regarding the duty exemptions for goods supplied under the contracts funded by the world bank.
10	Bid Opening & Submission Date Bid Submission Date - 15.02.2016 Bid Opening Date - 18.02.2016		As per normal tender practice bid submission & Opening date would be same. We request to you please keep same date for bid submission & opening.	As per Government of Karnataka's eprocurement guidelines, separate dates have to be fixed for submission and opening. Provisions of RFP shall prevail.
11	Bid Submission Form	Page No. 179	We are not able to understand Bid Submission form because no such clause 2.2 is mentioned in tender. Please correct & make the Bid Submission Form according to the Price Schedule.	Please refer to Bid Submission Form 1 Section VII
12	Price Schedule Forms	Page No. 182	1. Please correct time for submission & opening of bid. 2. Please correct quantity from 1 Nos. to 2 Nos. 3. We understand that Other Terms is not required for this tender. Please delete.	1. Bidders are requested to visit the e-portal frequently for details on changes in calendar of events or any other changes 2. Please quote rate for one no. of simulator, however the tendered quantity is two nos. 3. It is provisioned to enable the bidder to include any other items other than line items mentioned.
13	Appendix 3: List of Approved Subcontractors	Page No. 212	We understand that Appendix-3 is not applicable for this tender	Please refer to ITB 6.1 C of BDS wherein it is mentioned that subcontractors are allowed for specific activities. Hence the form is provided.
14	Addition Queries:-		In addition to the above queries, we would like to submit some addition queries. 1. Please confirm whether evaluation will be done separately for each simulator i.e. (Hassan & Hubli) or it will be combined basis. 2. We understand that total quantity of simulator will be awarded to one bidder only. 2. We would like to submit that we are the new bidder/vendor for participation in the tender, so please arrange a training programme for submission of bid in electronic form.	1. Evaluation is on combined basis 2. Yes 3. Bidders may approach eprocurement cell of Govt. of Karnataka, MS Building, Bangalore for training
15	1. The audio-visual system will consist of 3 or more screens and audio capability to simulate 180 degree view with the aid of 48" or higher size screens. 2. A Virtual Vehicle Interface (VVI) as an interactive screen to allow the driver to access and control components of the vehicle that are not part of the simulated driving cab is a preferable option.	Technical Requirements Clause No. 1.2.6	Could you please define what functionalities and what elements does the driver need to have Access to with the Virtual Vehicle Interface?	RFP provides the functional and technical requirements. As part of the solution, bidder is expected to offer the features and functionalities.

SL No	RFP Terms	Reference from RFP	Query	Clarifications from KSRTC
16	Simulation control screen LCD/LED: a display of at least 32" with touch screen showing	Technical Requirements Clause No. 2.1.1	<p><b>Simulation control screen:</b></p> <p>a. We consider that a 32" screen for the instructor station is way too big for a comfortable operation of the instructor station. The recommended distance (eye-screen) for a 32" screen is 1.5 meters. We recommend to reduce the size of the screen and use a panoramic monitor. Lander's recommendation would be a 24" panoramic screen.</p> <p>b. We do not consider necessary to have a touch screen. A regular screen with a mouse and a keyboard would be preferable.</p>	<p>a. RFP provisions shall prevail</p> <p>b. RFP provisions shall prevail.</p>
17	Driver camera screen: display at least 32" to allow the instructor to see student both in the real world and in the simulated world. To do so, this display will show both the student's webcam image and the simulated scene where the exercise is taking place from eight different viewpoints. The selection of the virtual camera view is made from the instructor's application interface and allows the instructor to see the scene from outside the vehicle to analyse, for example: <ul style="list-style-type: none"> <li>• Manoeuvres tracking</li> <li>• Outside perspective to observe the vehicle swings</li> <li>• Traffic around the vehicle</li> </ul>	Technical Requirements Clause No. 2.1.2	<p>Driver Camera Screen:</p> <p>a. We consider that a 32" screen for the instructor station is way too big for a comfortable operation of the system. We recommend a 19" monitor that will have approximately the same height than the 24" panoramic monitor of the simulator control screen.</p>	RFP provisions shall prevail.
18	Meanwhile, the student will be driving the simulated vehicle facing all the situations proposed by the instructor. For the degree of assimilation of the training to be the maximum, it is important that the level of realism observed by the student is as high as possible. In this regard, it is important that the simulator is provided with a software that includes highly advanced mathematical models, Motion sensing vision so that driver is able to see obstructed objects by head movement as it happens in the real life situation and an automatic traffic module, as well as a realistic visualization module. These aspects are addressed in the following sections.	Technical Requirements Clause No. 1.8.3	Motion sensing device: We recommend to remove it from the technical requirements. The system does not provide additional references to the driver and it can generate motion sickness.	RFP provisions shall prevail.
19	<p><b>Exhaustive database</b></p> <p>The simulation software is to be provided with elaborate database on road and track network to ensure large and variable driving conditions so as to give driving opportunity for all possible real life and testing situations. The minimum requirements for the database are:</p> <p>a) Manoeuvring area: minimum of 300 square meters</p> <p>b) Test track : minimum of 8 kms length</p> <p>c) Town and suburbs: 200 kms of road ( more than 70 Cross roads)</p> <p>d) Country road : minimum of 12 kms</p> <p>e) Small town road : minimum of 5 kms</p> <p>f) Mountain road : 5 kms</p>	Technical Requirements Clause No. 7	<p>According to the time each student will be spending in the simulator we consider that the kilometers of roads requested should be modified:</p> <p>a. "200 kilometers of town and suburbs" is way too much and will not be used by the instructors. An urban environment of around 40 kilometers should be more than enough for training.</p> <p>b. "Country road: minimum of 12 kilometers" is too little. 15 kilometers should be the minimum amount of kilometers.</p> <p>c. "Mountain road: 5 kms" is way too little. A minimum of 20 kilometers should be required in order to develop proper mountain road exercises.</p>	<p><b>Exhaustive database</b></p> <p><b>The simulation software is to be provided with elaborate database on road and track network to ensure large and variable driving conditions so as to give driving opportunity for all possible real life and testing situations. The minimum requirements for the database are:</b></p> <p><b>a) Manoeuvring area: minimum of 300 square meters</b></p> <p><b>b) Test track : minimum of 8 kms length</b></p> <p><b>c) Town and suburbs: 100 kms of road ( more than 30 Cross roads)</b></p> <p><b>d) Country road : minimum of 50 kms</b></p> <p><b>e) Small town road : minimum of 25 kms</b></p> <p><b>f) Mountain road : 25 kms</b></p>

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20	<p><b>Drive replay mode</b>  Simulator should provide video replay of full drive as undertaken by the driver so as to see mistakes committed by the driver. This feature should be available for all scenarios of training and assessment:  a) The replay mode should be user friendly for fast review. It should have Fast Rewind, Fast Forward, Stop, Pause features.  b) Different angle of view should be available:  c) Aerial (adjustable forward and backward focus)  d) 360 degree rotation around the trainee vehicle  e) Review should have option of reviewing drive from inside the vehicle, as well as from outside to see the trainee vehicle and the surroundings, including other vehicles on a real time video.  f) At the end, replay option should help learners to monitor/review his/her progress based on following parameters:  i) Driving time ii) Driven distance iii) Total fuel consumption iv) Total CO2 emission v) Average speed vi) Average rpm vii) Average CO2 emission viii) Average fuel consumption ix) Mileage x) Graphical depiction</p>	<p>Technical Requirements  Clause No. 9</p>	<p>The replay mode is essential for training objectives. We consider more interesting to be able to jump to specific points of the exercise rather than fast forward or fast rewind the exercise.</p>	<p><b>These are minimum requirements. Bidder is free to provide /offer such additional features</b></p>
21			<p>Is there a maximum budget number that may be shared?</p>	<p>Can not be shared</p>
22			<p>For the <u>warranty maintenance 36 months, and post warranty maintenance 60 months</u>, does the 36 months warranty mean free during the initial 3 years period? Is this requirement absolute? (As most hardware is only 1 year warranty)</p>	<p>RFP provisions shall prevail. Bidder need to adhere to RFP provisions. Accordingly, Price Schedule Form has been provided.</p>
23			<p>We are confused about the fees to participate in the bidding: is the cost to participate INR.550 + INR.10000 + INR 1 million ? What is a Bid Security and is it refunded if the bid was not won?</p>	<p>For participating in the tender, four types of fees have to be paid as mentioned in clause K, L, M, N, O of IFB. Please refer to Clause 17 of ITB and 17.1 of BDS for details on Bid Security. Bid Security will be refunded for unsuccessful bidders.</p>
24			<p>Does CIP apply to both the hardware and software?</p>	<p>Yes</p>
25			<p>. For the cabin, do the side mirrors have to be physical (small displays) or can they be virtual (as a part of the simulation inside the main displays) ?</p>	<p><b>The Rear view mirror should be part of simulation(screen).</b></p>
26			<p>The ICB mentions a <i>database on road and track networks</i> . Is this absolute? Can KSRTC staff create their own simulation environments once given proper training from us? Our software is famous for being highly customizable and easy to build an environment from scratch.</p>	<p>It is the responsibility of bidder to create simulation environment and comply with all requirements. Provisions should be made for any kind of customization.</p>
27			<p>For different driving scenarios and instructor's intervention of incidents / accidents, is a seamless experience required? (i.e. the current simulation must continue on without interruption every time an incident or event is activated)</p>	<p>As part of the solution, bidder need to offer the features. After intervention of incidents /accidents, the current simulation must continue on without interruption every time an incident or event is activated.</p>
28			<p>1. Is there any possibility for the bid submission deadline be extended beyond Feb 15?  We are a late contender and we are trying to putting together all the documents. Specifically, the Class- III DSC we need to figure out, as many licensed CAs provided by the CCA no longer seem to be issuing these.</p>	<p>Bidders are requested to visit the e-portal frequently for details on changes in calender of events or any other changes</p>

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29			Is installation and delivery date at the moment September 30, 2016? Can this also be extended if the deadline is postponed?	Bidders are requested to visit the e-portal frequently for details on changes in calendar of events or any other changes
30			Does the \$200 bid document contain any information that are not disclosed in the downloadable pdf file (237 page one) from the e-Procurement?	Bid document and PDF files uploaded to e-portal are one and the same.
31			Are all payments done online through KSRTC's e-Procurement Portal?	Please refer to clarification at sl no.23 above .
32			Under IFB, clause g 4.2, what does <u>minimum average annual turnover</u> mean?	Average turn over of three years i.e average of last three consecutive financial years i.e 2012-2013,2013-14 and 2014-15 or average of last three consecutive calendar years out of four years. i.e 2012,2013 and 2014 or 2013,2014 and 2015
33			Service should be given preference and a clause on "minimum 10 number of heavy commercial vehicle simulators being serviced in India" should be incorporated.	RFP provisions shall prevail.
34			Specifications of the 3DoF motion platform. This specification directly effect the quality of the simulation the simulator will provide. As an industry standard, the low electric wastage "Servo Motor Driven Motion Platforms" are the latest technology in this field.	The functional and technical requirements should be met as part of solution.
35			3. Joint ventures are not allowed as per the tender document. This clause should be removed because international organisations will not have the service network to address the post delivery support without local presence/ partners and will in effect lead to higher down times.	Provision is made to permit sub contract for specific services. Please refer ITB 6.1 C of BDS
36			4. In accordance with the policy announcement by our Prime Minister to promote Indian technology developments and organisations, the average turnover in eligibility criteria should be reduced from average of Rs 5 Cr in 3 years to total of Rs 5 Cr in last 3 years in driver training simulators.	RFP conditions shall prevail.
37			4. In accordance with the policy announcement by our Prime Minister to promote Indian technology developments and organisations, the average turnover in eligibility criteria should be reduced from average of Rs 5 Cr in 3 years to total of Rs 5 Cr in last 3 years in driver training simulators.	RFP conditions shall prevail.
38			is there any preference given to indian manufacturers, as promoted by our Prime minister?	No such provisions.RFP conditions shall prevail as it is a Global tender.
39	Driving Simulator	Sl no 3	What should be the reference bus model for bus cabin fabrication ?	The bus model brand /make neutral. Bidder to study the prevailing bus types/models and offer solution.

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40	Driving Simulator	SI no 4.2	What should be the maximum % of degradation to be considered for vehicle and Road?	The solution should simulate worst/best case scenario. The degradation of vehicles is described as 5%, 10% and 20% in all parameters of the vehicle performance including its combustion/compression, mechanical suspension and damping, steering, propulsion, braking and lighting systems, underinflation/over inflation of tyres, defects in wheel alignments/wheel balancing, kingpin play, uneven surface of brakedrum, alignment of liners, slack adjuster settings, defective tie rod and push rod ends etc. Impact of overinflated/under inflated tyres on braking efficiency under various climatic conditions. The system should simulate the scenarios of driving in single lane, two lane, multilane and WBM roads, dry and wet conditions, driving on straight road stretches, horizontal curves, vertical curves, road sloping down from plane terrain and continuation in immediate curve/turn and Ghat section, safe stopping distance on sight of accidental objects, safe overtaking distance, safe braking distance, driving with onside wheel on WBM surface and other side wheel on concrete or black top surface, driving on partially dry and wet road conditions, driving on partially sandy/gravelly surface and rigid or flexible road and pavements. The system should also simulate formation of blind spots at horizontal and summit curves formed by headlight beams during night driving and driving with high and low beams. In case of high-end buses operation of body lift and rear
41	Driving Simulator	SI no 4.10	What should be the total area developed and breakup of this in terms of Hilly region, Rural area, city limits, cross country, national highways, State highways, river banks...etc	a) Manoeuvring area: minimum of 300 square meters b) Test track : minimum of 8 kms length c) Town and suburbs: 100 kms of road ( more than 30 Cross roads) d) Country road : minimum of 50 kms e) Small town road : minimum of 25 kms f) Mountain road : 25 kms
42		SI no 4.12	What would be the duration of each exercise?	The speed of the vehicle depends on the vehicle type/model. Duration of each exercise should be designed to cover the minimum requirement mentioned above.
43	B Traquining Module	point no 1	What would be the basic education level of trainees( eg: 7 <sup>th</sup> std, 10 <sup>th</sup> Std, PUC...)	Minimum of Class 10 or SSLC
44	-	-	Installation location?( Hubli- Dharwad) – Is Tenderer expected to provide transportation?	Total Two numbers i.e one each at Hassan and Hubballi. Bidder to provide end to end transportation at each of the site of installation.
45	General Requirements	SL no 1	What is the quantity of simulators required	Total Two numbers i.e one each at Hassan and Hubballi
46	General Requirements	SL no 1	Scope of CBT theoretical training module?	Computerised Basic Training - theoretical training model should cover basic knowledge of road safety, road signals, symbols, first aid action to be taken by driver in case of accidents/brakedowns etc. Bidder to propose theoretical training module meeting all requirements.
47	General Requirements	SL no 1	Duration of the CBT?	Duration of the CBT to be designed to cover above requirement and propose the industry standards.
48	General Requirements	SL no 1	Level of CBT?	The language and contents of CBT to be in Kannada and English to cover above subject which can be clearly understood by class 10 or SSLC passed candidates. The winning bidder has to prepare the study material, should submit the same to KSRTC for approval. The classroom/computer based training should also cover advantages and disadvantages and comparison of various types of brake system and its functioning (ABS, EBD, ASR, TCS, Retarder brake system, conventional brakesystem)

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49	General Requirements	SL no 4	Resolution of CCTV cameras and quantity required? Is it Day + night ( with TI) mode or only Day camera,Dome type or Box type?	The CCTV camera should meet the functional & technical requirements suitable for day and night modes meeting good and industry standards specifications acceptable globally (minimum of 13 MP)
50	General Requirements	SL no 4	What is the total area to be covered by CCTV?	<b>Built-up space of 2000 sq.ft. for the Simulator Room inclusive of observer station for driver student</b>
51	Visualization System	SL no 1.2.3	Vertical FoV?	<b>+ 60 to - 60 degree.</b>
52	Visualization System	SL no 1.2.6 point 1	Visual Systems: Project ionised Visual systems or Monitorised visual system?	<b>The solution should meet functional &amp; technical requirements of the RFP.</b>
53	Visualization System	SL no 1.2.6 point 2	Details of Virtual vehicle interface – what are the components?	<b>The solution should meet functional &amp; technical requirements of the RFP.</b>
54	Motion Platform ( motion Cue Effects)	SL no 1.3.1	3 DoF or 6 Dof ? ( in one place upto 6 Dof is mentioned)	<b>minimum requirement is 3 Dof. However bidders are free to offer better Dof.</b>
55	Motion Platform ( motion Cue Effects)	SL no 1.3.1	Preferred motion platform - Hydraulic motion platform or electronic m/P	<b>The functional and technical requirements should be met as part of solution.</b>
56	Motion Platform ( motion Cue Effects)	SL no 1.3.1	Motion platform capacity of payload? 1 ton/ 3 tons...	<b>The motion platform shall be designed to take its own load and live load of two persons, including the trainee driver.</b>
57	Installation & Operation	SL No 3.1.2	UPS rating {5 kva...}and backup duration required?( 30 min backup...)	<b>The capacity of the UPS i.e KVA is to be assessed by the vendor based on the requirement of the whole system. Back up powers required is minimum of 30 minutes.</b>
58	Installation	SI no 3.2.1	Area of the simulator room?	Built-up space of 2000 sq.ft. for the Simulator Room inclusive of observer station for driver student with the height of minimum 3.6 Meter. The floor shall be designed to withstand a weight of 400 Kg per meter square.
59	Simulation Scenes	SI No1.5.6	How many different kinds of other vehicles to be modelled?	Already provided at the B 1.1.1 of section 6
60	Simulation Scenes	SI No1.5.6	Qty of other vehicles / animals/ human moving in a frame?	Best and worst case senario of Indian road conditions sholud be simulated.
61	Simulation Scenes	SI No1.5.6	Quantify the density of traffic – (low density – 10-15 vehicle in a frame.... medium density, high density..)	Best and worst case senario of Indian road conditions sholud be simulated.
62	Simulation Scenes	SI No1.9.4	What are special vehicles?	Already provided at the B 1.1.1 of section 6
63	Simulation Scenes	SI no 11	Will inputs be provided for sl no 11 (onwards) training modules?	brief description is already provided at sl no. a) 11 to 19 and b)6 of section software features (please refer 6 of technical requirements).
64	General Question	NIL	Availability of Sufficient Indian visual databases.	The bidder has to generate the databases as per RFP requirement.
65			Vendor has to develop for this specific project?	The bidder has to generate the databases as per RFP requirement.
66	General Question	NIL	Please address about Requirement for hardware	The query is not clear and specific.

Note: Please also download the document titled amendments to RFP