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# Institute for Plasma Research (An Autonomous Institute of Dept. of Atomic Energy) Bhat, Gandhinagar

TERMS	& C(	וחאס	TIONS

	TERMS & CONDITIONS	
ITEM	Supply of complete integrated Virtual Reality System along with installation,	, commissioning, integration and training as
DESCRIPTION	per the details given in the tender document.	
SI. No.	PARTICULARS	REMARKS
<u> </u>	Name of the Supplier	
Ш	IPR Enquity NO & Date	IPR/TN/PUR/TPT/ET/17-18/38 DATED 27-02- 2018
111	Vendor Offer No & Date	2010
IV	Postal address	
V VI	Contact with STD code Fax with STD code	
VI	Name of Contact person	
VIII	Mobile No.	
<u> IX</u> Х	e-mail ID Currency of offer/quotation	INR
X	SCANNED COPY OF THE BELOW MENTIONED DOCUMENTS NEED TO	"YES" OR "NO"
	UPLOAD AT www.tenderwizard.com/DAE AT THE TIME OF	
1	PARTICIPATION OF TENDER WITHIN THE PERIOD OF SUBMISSION. Certificates:	
	i) Registration Certificate if Any, with DGS&D/NSIC/MSME	
	ii) PAN (Permanent Account Number) Registration	
	iii) Certificates of Registration for GST Commericial Terms for Quoted items (Please Provide Commercial terms	
	and conditions in the below form)	
2	Price Shall be firm and fixed through out the currency of contract, in the event of	
3	placement of purchase order. Have you offered Packing and forwarding charges in the price bid (if applicable)?	
5	Trave you onered Facking and forwarding charges in the price bid (if applicable)?	
4	Have you specified HSN / SAC Code for Goods and Services Tax in Price Bid?	
5	Have you offered Freight charges in the price bid?	
6	Have you offered Insurance charges in the price bid?	
7	<b>Delivery including integration &amp; commissioning:</b> Within 32 weeks from the date of LOI/Contract.	
8	Liquidated Damages:- as per Sr. No. 22 of Form No IPR-LP-ET-02.V2 (Terms	
9	and Conditions) attached with the tender/enquiry Terms of Payment:- as per Sr. No.37 of Form No IPR-LP-ET-02.V2 (Terms and	
3	Conditions) and deferred terms and conditions attached with the tender/enquiry	
10	Guaranty / Warranty:-Three years comprehensive warranty/ guarantee for all	
	equipment including third party items in VR System & 10 years warranty on the mechanical structures for screen and projectors from the date of acceptance	
	against all sorts of manufacturing defects, faulty material and poor workmanship	
	(Pleaser refer to deferred terms and conditions and clause No. 9 of Section-C for	
11	more details) Validity of offer/quotation:- 120 days from the date of opening of tender	
11	QUESTIONNAIRE TO BE FILLED BY BIDDER IN AND SENT ALONG WITH	
	OFFER DULY SIGNED	
12	In the event of a purchase order/contract vendor has to provide Security Deposit in the form of Bank Guarantee for 10% of contract/ order value from	
	SBI/nationalized banks or any one of the scheduled banks mentioned in the	
	bracket (Axis Bank, HDFC Bank, ICICI Bank and IDBI Bank) valid till final	
	acceptance of the supplied goods at IPR, wherever applicable shall be submitted	
13	In the event of a purchase order/contract Performance Bank Gurantee for 10%	
	of the contract/order value from SBI/nationalized banks or any one of the	
	scheduled banks mentioned in the bracket (Axis Bank, HDFC Bank, ICICI Bank and IDBI Bank) valid throughout the guarantee period, wherever applicable shall	
	be submitted.	
14	I/We hereby offer to supply the stores detailed in the schedule hereto at the price	
	given in the said schedule and agree to hold this offer open till expiry of quotation. I/We shall be bound to supply the stores hereby offered upon	
	issue of purchase order communicating the acceptance thereof on or before the	
	expiry of the last mentioned date. You will be at liberty to accept any one or more	
	of the items of stores tendered for or portion of any or more of the items of such	
	stores and I/We notwithstanding that the offer in the tender has not been accepted in whole shall be bound to supply to you- such item or items and such	
	portion or portions of one or more of the items as may be specified in the said	
	Purchase Order communicating the acceptance.	

15	I/we have understood the General Conditions of all Contracts and special conditions of contract governing supplies of plant and machinery in the Form No. IPR-LP-ET-02.V1, included in the General Conditions of all Contracts and special conditions of contract governing of plant and machinery applicable to contracts placed by the Institute for Plasma Research and the instructions to Tenderer annexed to the invitation to tender Form and have thoroughly examined the specification / drawing and / or pattern quoted or referred to in the Schedule hereto and am/are fully aware of the nature of the stores required any my/our offer is to supply stores strictly in accordance with subject tender to the terms and conditions stipulated in your above Form No.IPR-LP-ET-02.V1 and also contained in the Purchase Order Communicating acceptance of this Tender.	
16	Whether All Documents Related to tender Viewed?	
17	Vendor should upload the complete technical details (Tehnical specifications with product data sheet	
18	In case of two part tender whether unpriced quotation has been uploaded (Failing which offer will not be considered for technical evaluation)	
19	Free Issue Material: Successful tenderer will have to arrange insurance showing beneficiary as "Institute for Plasma Research" at their risk and cost towards adequate security for the materials/property provided/issued by the Purchaser as Free Issue Material for the due execution of the contract, wherever applicable.	

## Institute for Plasma Research (An Autonomous Institute of Dept. of Atomic Energy) Bhat, Gandhinagar

Eligibility Criteria ITEM DESC Supply of complete integrated Virtual Reality System along with installation, commissioning, integration and training as per the RIPTI details given in the tender document. ON PARTICULARS REMARKS SI No Name of the Vendor 1 IPR/TN/PUR/TPT/ET/17-18/38 DATED 27-2-2018 Ш IPR Enquity NO & Date Ш Vendor Offer No & Date Status of Documents Sr. (Uploaded/ Not-Uploaded Criteria Documents required to upload No. in e-Tender Portal) Bidder shall be a system integrator for VR system. a) Bidder must provide their company profile 1 showing the expertise and experience in VR svstem. b) List of previously executed jobs along with succinct details of the key VR system elements and customer order references. Bidder shall have successfully executed at-least one a) Bidder should submit copies of Purchase 2 installation for a VR system at a single location with a single orders along with all technical details and order value of Rs.150 lakhs for any government or nonannexures describing the VR system in the government organization in India. scope of the order b) Bidder should submit copies of installation reports and/or completion certificates certified by the customer indicating the purchase order references. 3 The Bidder must have been permanent establishment in India The bidder must submit copies of documents which are suitable as proof for the date of for the period of at least three (3) years as on the date of this establishment in India tender The guoted 'Real-time visualisation software' (as per the Bidder must submit copies of installation 4 technical specifications) should have at-least one installation in reports and/or completion certificates certified by the customer indicating the any government or non-government organization within India. ourchase order references 5 Mandatory Document: The Bidder must submit authorization and agreement letters (Annexure-1 and Annexure-2) from their OEMs for the sales & support and compatibility of the VR display systems they intend to offer for this tender 6 Mandatory Document: The Bidder must submit authorization and agreement letters (Annexure-1 and Annexure-2) from their OEMs for the sales & support and compatibility of the VR optical tracking systems they intend to offer for this tender. Mandatory Document: The Bidder must submit authorization and agreement letters (Annexure-1 and Annexure-2) from their OEMs for the sales & support and compatibility of the Real-time Visualization Software they intend to offer for this tender

For the purpose of this tender the 'VR System' shall mean a virtual reality system including display system **Note:** with integration of system elements including (a)

Projection system and display screens, (b) 6 Degree-of-Freedom tracking system and (c) Real-time 3D visualization software components.

#### The response to tender without submission of proof of above points will summarily be rejected without further communication

The bidder shall not be under a declaration of ineligibility for corrupt or fradulent practices or blacklisted with any of the Government agencies Original documents shall be produced for verifications, if required. Bidder shall submit all the mandatory documents listed above as proof of compliance to eligibility criteria. Non submission and/or partial submission

may lead to rejection of the bid. Bidder compliance to the eligibility conditions shall be mandatory requirement as part of technical acceptance of the bid

Bidder shall be a solo participant on their own. Joint Venture or Consortium Bidding shall not be considered

Eligibility conditions shall be compliant by bidder's i.e. "VR System Integrator's" own credentials.

		Institute for Plasma Resear (An Autonomous Institute of Dept. of A Bhat, Gandhinagar							
		TECHNICAL SPECIFICATIONS & COMP	LIANCE SHEET						
ITEM DESCRI	Supply of complete	e integrated Virtual Reality System along with insta the details given in the tend	llation, commissionin	g, integration and training as per					
PTION		Name of Vendor							
		PR Enquiry No and Date	IPR/TN/PUR/TPT/	ET/17-18/38 DATED 27-2-2018					
	Ve	endors Offer No and date							
Sr.No	Parameter	Specification	Specification of quoted item	Remarks					
1	glasses, mounting st	ncluding projectors, display screens, stereoscopic ructure, tracking system and with all necessary s has been quoted by the Integrator/Bidder							
2		the Projector, Screen and Mirror arrangements to get ameters on each screen and viewable area has been a offer.							
3		er has to confirm compatibility of the proposed Screens and tracking devices with each other.							
4		tion-display system and its mechanisms should be d with all components within the set footprint / space							
5		er should also take care on Installation / Integration ts required for the system.							
6		tors, tracking devices, Screens, VR middleware has to ing for the compatibility of their respective proposed							
7	Available Space at IF Height: 5m max Width: 8m max Depth: 8m max	R for complete VR system							
2. Project	tion System (Qty: 3	No.)							
8	Image	Brightness: Minimum 6000 ANSI lumens @ 200- 240V							
		Uniformity: 80% brightness uniformity or better Rear Projection for Front and Side screens and, Front projection for Floor screen							
9	Number of Projectors	There should be only single Projector for each screen Total : 3 Projectors							
10	Display	Type: The offered display environment needs to be a seamless edge butted display created using a high- resolution 3 chip DLP / Darkchip 3 or better /equivalent projection system Native resolution: WUXGA (1920 x 1200) or higher@ all frequencies from 96 – 120 Hz with 3D							
11	Resolution per facet	stereo sync outputs Two at 1920 x 1200 or better (Front and Floor) One at 1200 x 1200 or better (Side)							
12	Total Resolution	6 Megapixel or higher							
13	Aspect Ratio	Two at ~16:10 One at 1:1							
14	3D Capability	The projectors should be Active stereo3D and should support frame sequential 120Hz input at above mentioned resolution							
15	Light Source	High quality Lamp/ Laser Life of Lamp Source: 1500 Hours or higher							
16	Standard Input	DisplayPort – 2 Nos. or higher Dual-link DVI – 1 No. or higher HDMI – 1 No. or higher 3D Sync Connector							
17	Inputs/outputs, control and networking	RS232 In/Out Ethernet (RJ 45)							
18	Lens	Fixed : 1.1:1 or better							

19 20			
_	Standard	Power cables, Display Cables all inter-connectors,3D	
20	Accessories	sync card to maintain proper signal quality	
20			
	Power	Operating voltage: 230 ± 10% VAC @ 50 Hz	
21	Operating	Temp: 10 to 40° C	
21	environment	Temp. 10 to 40°C	
22	Warranty	As per Warranty Clause (Section-C-Section 9)	
		For the projection on the Floor screen only, a first	
23	Floor Screen	surface mirror arrangement must be used to fold the	
20	Projection	light and cut down on the space used for projection	
		throw from the projector to the screen.	
0 D .			
	tor Mechanics: (Qty		
24		nechanics to hold the projector to be provided.	
		or this structure should be of adequate tensile	
25		mmended to hold the projector stably without	
	oscillations or vibra	tions including micro vibrations.	
	This structure shou	ld be with a six degree of freedom base with	
26		to keep the projectors aligned and allow for movement	
20	as per the requirem		
27	5 1	Warranty Clause (Section-C-Section 9)	
4. Displa	y Screens (Qty: 3 No	os.)	
		One 3.2 to 3.5m x 2 to2.2m soft screen (Front)	
28	Screen size and type		
1		One 3.2 to 3.5m x 2 to2.2m soft screen (Floor)	
4.1 Front	and Side Screens wi	th rear projection	
29		exible Screen (fabric)	
30	Peak Gain : 1.0 or b		
31	Half gain : 60 + Deg		
51		stance : 1.0 X Image Width or higher with fixed lens	
32		stance. 1.0 x image width of mgner with fixed lens	
22	No banding should	be visible on the edges of the screens It Should be	
33	flame resistant		
		ooth edge butting andpixel matching of the images at	
34	the edges of the diff		
	0		
35		e should not be any crease.	
4.2 Floor	Screen with front pro	pjection	
		exible Screen (fabric). The appropriate hard base for	
26	the floor on which t	he fabric will be placed must also be supplied by the	
36		ne iasile sill se placed must also se supplied sy ale	
36	Bidder.		
	Bidder.		
37	Bidder. Peak Gain: 1.0 or be	etter	
37 38	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg	etter rees	
37 38 39	Bidder. Peak Gain: 1.0 or b Half Gain: 60 + Deg Ambient Light From	etter rees t Reflectance Value: 80% or better	
37 38 39 40	Bidder. Peak Gain: 1.0 or b Half Gain: 60 + Deg Ambient Light From Ambient Light Resis	etter rees t Reflectance Value: 80% or better tance: Fair	
37 38 39	Bidder. Peak Gain: 1.0 or b Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis	etter rees t Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher	
37 38 39 40	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should	etter rees t Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges	
37 38 39 40 41	Bidder. Peak Gain: 1.0 or b Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res	etter rees t Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant	
37 38 39 40 41 42	Bidder. Peak Gain: 1.0 or b Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res	etter rees t Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges	
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37 38 39 40 41 42 43	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to wea	etter rees t Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. tr any kind of special material shoes, The details must	
37 38 39 40 41 42 43 44 45	Bidder. Peak Gain: 1.0 or b Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to wea be supplied by Integ	etter rees E Reflectance Value: 80% or better stance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder	
$     \begin{array}{r}       37 \\       38 \\       39 \\       40 \\       41 \\       42 \\       43 \\       44 \\       45 \\       46 \\     \end{array} $	Bidder. Peak Gain: 1.0 or b Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to wea be supplied by Integ The warranty as per	etter rees E Reflectance Value: 80% or better stance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder • Warranty Clause (Section-C-Section 9)	
$     \begin{array}{r}       37 \\       38 \\       39 \\       40 \\       41 \\       42 \\       43 \\       44 \\       45 \\       46 \\     \end{array} $	Bidder. Peak Gain: 1.0 or b Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to wea be supplied by Integ The warranty as per <b>Mechanics: (Quant</b>	etter rees E Reflectance Value: 80% or better stance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder • Warranty Clause (Section-C-Section 9) <b>ity – 3 Sets: 1 set each for front, side and floor</b>	
$     \begin{array}{r}       37 \\       38 \\       39 \\       40 \\       41 \\       42 \\       43 \\       44 \\       45 \\       46 \\     \end{array} $	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to wea be supplied by Integ The warranty as per <b>Mechanics: (Quant</b> Suitable structure t	etter rees t Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder • Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> o be provided to hold the screen material in the three	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b>	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to wea be supplied by Integ The warranty as per <b>Mechanics: (Quant</b> Suitable structure t sided pattern as me	etter rees Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> o be provided to hold the screen material in the three ntioned above	
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37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48	Bidder. Peak Gain: 1.0 or by Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dia No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure to sided pattern as me Suitable structure to provided to hold the mentioned above	etter rees E Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as	
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37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 48 <b>49</b> <b>6. Stereo</b>	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dia No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure to sided pattern as me Suitable structure to provided to hold the mentioned above Warranty As per Classes: (Qty	etter rees Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as ause (Section-C-Section 9) <b>a - 20 Nos.)</b>	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 48 <b>49</b> <b>6. Stereo</b> 50	Bidder. Peak Gain: 1.0 or by Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure to sided pattern as me Suitable structure to provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR	etter rees Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as ause (Section-C-Section 9) <b>r - 20 Nos.)</b> /RF	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 48 <b>49</b> <b>6. Stereo</b> 50 51	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure t sided pattern as me Suitable structure v provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle	etter rees E Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as ause (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 48 <b>49</b> <b>6. Stereo</b> 50	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure t sided pattern as me Suitable structure v provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle Residual Light : 159	etter rees E Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as ause (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better 6 or better	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 48 <b>49</b> <b>6. Stereo</b> 50 51	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure t sided pattern as me Suitable structure v provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle	etter rees E Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as ause (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better 6 or better	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 48 49 <b>6. Stereo</b> 50 51 52	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure t sided pattern as me Suitable structure v provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle Residual Light : 159	etter rees E Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as ause (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better 6 or better	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 48 49 <b>6. Stereo</b> 50 51 52 53	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure t sided pattern as me Suitable structure v provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle Residual Light : 15% Contrast : > 200:1 ( Weight :< 60 grams	etter rees E Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as ause (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better 6 or better	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 48 49 <b>6. Stereo</b> 50 51 52 53 54 55	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to wea be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure t sided pattern as me Suitable structure v provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle Residual Light : 159 Contrast : > 200:1 ( Weight :< 60 grams The warranty as per	etter rees E Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as muse (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better % or better no Ghosting ) Warranty Clause (Section-C-Section 9)	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 47 48 49 <b>6. Stereo</b> 50 51 52 53 54 55	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure t sided pattern as me Suitable structure v provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle Residual Light : 15% Contrast : > 200:1 ( Weight :< 60 grams	etter rees E Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as muse (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better % or better no Ghosting ) Warranty Clause (Section-C-Section 9)	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 <b>4</b> 47 48 <b>4</b> <b>4</b> 5. <b>Screen</b> 47 <b>6. Stereo</b> 50 51 52 53 54 55 <b>7. Stereo</b>	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure to sided pattern as met Suitable structure to sided pattern as met Suitable structure to provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle Residual Light : 159 Contrast : > 200:1 ( Weight :< 60 grams The warranty as per	etter rees Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as ause (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better % or better no Ghosting ) Warranty Clause (Section-C-Section 9) <b>y - 2 Nos.)</b>	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 <b>4</b> 47 48 <b>4</b> 47 <b>6. Stereo</b> 50 51 52 53 54 55 <b>7. Stereo</b> 56	Bidder. Peak Gain: 1.0 or by Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure t sided pattern as met Suitable structure v provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle Residual Light : 15% Contrast : > 200:1 ( Weight :< 60 grams The warranty as per Scopic Emitter: (Qty IR/RF Compatible to the s	etter rees Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as nuse (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better % or better no Ghosting ) Warranty Clause (Section-C-Section 9) <b>y - 2 Nos.)</b> tereoscopic glasses	
37 38 39 40 41 42 43 44 45 46 <b>5. Screen</b> 47 48 <b>4</b> 47 48 <b>4</b> 47 <b>6. Stereo</b> 50 51 52 53 54 55 <b>7. Stereo</b> 56 57	Bidder. Peak Gain: 1.0 or be Half Gain: 60 + Deg Ambient Light From Ambient Light Resis Minimum Throw Dis No banding should Should be flame res When laid flat, there If user needs to weat be supplied by Integ The warranty as per Mechanics: (Quant Suitable structure to sided pattern as met Suitable structure to provided to hold the mentioned above Warranty As per Classes: (Qty Sync Operation : IR Transmission in Cle Residual Light : 159 Contrast : > 200:1 ( Weight :< 60 grams The warranty as per Scopic Emitter: (Qty IR/RF Compatible to the s Max Emitting Range	etter rees Reflectance Value: 80% or better tance: Fair stance: 1.0 x image width or higher be visible on edges istant e should not be any crease. ur any kind of special material shoes, The details must grator/Bidder Warranty Clause (Section-C-Section 9) <b>ity - 3 Sets: 1 set each for front, side and floor</b> to be provided to hold the screen material in the three ntioned above with adequate strength/OEM recommended to be e screen material in the three sided pattern as nuse (Section-C-Section 9) <b>7 - 20 Nos.)</b> /RF ar State : 30 % or better % or better no Ghosting ) Warranty Clause (Section-C-Section 9) <b>y - 2 Nos.)</b> tereoscopic glasses	

s. Tracki	ing System (Qty: 1	No.)	1	
60		ld be completely camera based motion tracking.		
00	-	m should be compatible to the Real Time 3D		
61		vare, Projection systems, Screens and all other quoted		
61		are, Projection systems, Screens and an other quoted		
	items.			
62	The user should n	ot need to wear any kind of detectors or special clothing.		
02				
	Integrated system	should allow typical virtual prototyping operations like		
63				
00	grabbing rotating	, moving and placing a 3D object in the virtual scene.		
		Id come with the supporting controller and software.		
64	The tracking shou	in come with the supporting controller and software.		
8.1 Track	king Camera (Oty: 4			
65	Infrared optical 6	DOF tracking camera, to work with active/passive		
05	markers.			
66	Inbuilt infrared fla	sh (NIR)		
67	Max. tracking dist	ance: up to 5 meter or more		
68	Modulated flash fo	or active marker synchronization		
69	Frame rate : 120 H	Ηz		
70	Standard focal len	gth: f = 3.5 mm or better		
71	Cable for Data out			
72	Camera Sync: Eth	ernet		
8.2 Contr	roller (Qty: 1 No.)			
73		s through front-end software		
74	Data output via Et	thernet		
75	Simple camera and	d target management		
76	Flexible adjustmer	nt of room and body coordinates		
77	Convenient config	uration management		
78	Software Interface	s: trackd, VRPN or direct via SDK		
79		port and API should be provided.		
8.3 Wirel		-Tracking: (Qty – 2 Nos. Each)		
80	6 DOF tracking			
81	Analog/Digital joys	stick and minimum 6 buttons		
82	Wireless transmiss			
83	Protected passive	target		
	The system should	allow working with two wireless joysticks, however,		
84	only one wireless i	oystick should be tracked at a particular time for		
	interaction.			
85		er Warranty Clause (Section-C-Section 9)		
		ion software for Virtual Reality Facility (Qty: 1No.)		
	Display seamless	y the 3D models in Real Time to the proposed VR facility		
86	1 0 0	•••		
	( 3 Sided Display S	- ,		
87	No data conversion	n or limitation for size, resolution, shape or performance		
-	during rendering			
0.0	Display of 1:1 scal	e models or greater without any sort of data conversion		
88	or data loss			
89	Interaction with m	odel in real time using tracked devices		
		Transparently display the existing 3D application on		
90	Features	specified display system		
		No data conversion. No export or import process		
		should be required.		
		No Programming should be required. It should be		
		plug and play type system to visualize any model in		
		immersive 3D		
		Allows natural interaction with the 3D model using a 6DOF Force feedback haptic device (direct		
		interaction with CATIA v5 along with API for		
		manipulation with collision avoidance). However, The		
		haptic device is not in the scope of supply of this		
		tender.		
	Software	No data conversion. No export or import process		
91	Software Compatibility	No data conversion. No export or import process should be required from the native CAD application		
91	Software Compatibility	No data conversion. No export or import process		
91		No data conversion. No export or import process should be required from the native CAD application Dassault Systems CATIA, DELMIA (compatibility to V5-R23) and 3D-Via Composer		
91		No data conversion. No export or import process should be required from the native CAD application Dassault Systems CATIA, DELMIA (compatibility to V5-R23) and 3D-Via Composer No Programming should be required. It should be		
91		No data conversion. No export or import process should be required from the native CAD application Dassault Systems CATIA, DELMIA (compatibility to		
91		No data conversion. No export or import process should be required from the native CAD application Dassault Systems CATIA, DELMIA (compatibility to V5-R23) and 3D-Via Composer		

1	I		
		3D applications supported should be Dassault Systems CATIA, DELMIA (compatibility to V5-R23) and 3D-Via Composer	
92	Display System Compatibility	Visualization Software should be a middleware solution to display directly any existing 3D applications on 3 Sided Fully immersive display system without making modification of the existing 3D application or importing into a separate application integrating tracking information for immersion and providing a broad range of functionalities and scenarios of use.	
93	Architecture	The Visualization Software should grab the 3D content (3D models) from unmodified existing 3D OpenGL applications, running on one main workstation, and sends it in real time to the cluster of computers connected to the projection system.	
94	Tracking System	The solution should allow to combine information from any the specified tracking system, VRPN compliant, to the VR environment.	
		The solution should enable to create a VR experience by computing the appropriate stereoscopic point of view combining models, stereoscopic projection and head tracking.	
		The Solution should be seamlessly compatible to the proposed 6 DOF tracking system.	
95	Native Applications	The models are displayed exactly in the same way as in the original application. If the application has textures, shaders or post-processing effects (real time compliant), the solution should display them.	
		If the application can play an animation in real time, the solution should display the same animation also in real time.	
96	Stereo Functionality	The solution should enable to add stereo to non- stereo application without modifying the original application.	
97	Navigation Functionality	The user shall have the choice to either navigate in the original application, using the mouse and keyboard inputs, or to use a tracked Navigation device (6DOF wireless joystick/ haptic arm) and navigate in the VR environment.	
		The navigation performance in the VR environment with the solution is accelerated compared to the original application. There is no need optimize or simplify the datasets for the project review. The solution shall integrate and interface with the Navigation device.	
98	Licensing	The licenses must be perpetual	
99	Cluster Compatible	Software should have capability to run across a multiple PC cluster to increase render and computer performance	
100	User Tools	Software should allow user to work on the model from the native application with a navigation device in stereo mode.	
		The following functions should be accessible in the VR environment: bookmarks recording, measurement between points in the model, Object Pick, Collision detection, clipping plane and zoom, snapshot, hide and show part, annotations in stereo image output on the main display screen, animation recording and video exporting.	
		The bookmark functionality should enable the user to record a set of model view positions and to go back to these positions later, during the same session or in another review session.	

		The measurement functionality should enable the user to select two points in the model and measure the distance between those two points. Furthermore the measurement tool should offer the possibility to measure angle between surfaces or diameter of circle shape by adding 3 points on this circle	
		The user can place and move a clipping plane that provides a section of the model (as it is) to see the inside content. Adding more clipping planes should be offered.	
		The zoom functionality should enable the user to change interactively the scale of the model to have a better view of the details. Zooming in or out, decreasing or increasing the scale of the model should be the 2 possible actions. Coming back at scale 1 should be offered easily.	
		The snapshot functionality should enable the user to take a picture of the current model view as image file (jpg, png, gif), that can be saved on the main workstation for paper report.	
		The hide & show parts functionality should enable the user to select interactively some parts of the model and hide them to have a better understanding of the important parts of the model	
		The annotation functionality should provide the user a way to stick interactively virtual flags on the model to point out specific issues seen during the review. This annotation should be saved as VRML files, to be uploaded in 3D native application	
		Animation Recording should enable the user to record his walkthrough and save it as an animation. Such animation can be later replayed with the same 3D model in VR.	
		Software Video Recording should enable the user to record all actions and model navigation and export that as a AVI movie for review debriefing, training or product documentation	
101	Warranty	The warranty as per Warranty Clause (Section-C- Section 9)	
10. 10-Gi		ged Switch (Qty: 1 No.)	
102	Number of Ports	Minimum 24	
103	Buffer size	3 MB or more	
104	SFP ports	Min. 04 SFP+ 1000/10GBASE-X fiber ports (dedicated)	
105	Operating temperature	0° to 50°C	
106	MTBF (@ 25° C)	500,000 hours or more	
11. Audio	System		
107	Inputs/Outputs	<ul> <li>4x HDMI inputs or more</li> <li>2x optical digital audio connections or more</li> <li>2x coaxial digital audio connections or more</li> <li>Analogue L/R audio inputs</li> <li>1x 3.5 mm connection</li> <li>Ethernet port control and updates via network</li> </ul>	
108	Supported Audio Format	<ul> <li>Dolby Digital,</li> <li>Dolby Digital Plus,</li> <li>Dolby TrueHD,</li> <li>Multichannel PCM</li> </ul>	

109	Amplifier	<ul> <li>Rated Output Power:</li> <li>2Ω Dual (per channel) 550-775W,</li> <li>4Ω Dual (per channel) 350-525W,</li> <li>8Ω Dual (per channel) 300W,</li> <li>8Ω Bridge ~1000W,</li> <li>4Ω Bridge ~1,500W.</li> <li>Crossover frequency: 50Hz to 3kHz</li> <li>Amplifier Class D</li> <li>Load Impedance: 2 to 8 ohms per channel in stereo, 4 to 8 ohms in Bridge Mono.</li> </ul>	
110	Surrounding Speakers	<ul> <li>Frequency range: 40Hz to 19KHz (-10dB) or better</li> <li>Power Capacity: 300 W or more with continuous program power</li> <li>Nominal Impedance: ~8 ohms</li> </ul>	
111	Sub-Woofer	<ul> <li>Frequency range: 42 Hz - 200 Hz (-10 dB)</li> <li>Frequency response: 48 Hz - 120 Hz (± 3 dB)</li> <li>Power Capacity: 800 W or more with continuous program power</li> <li>Nominal Impedance: ~8 ohms</li> </ul>	
112	Microphones	2 Nos. of wireless mics	
12. Train	ing		
113	Training at IPR	The training to IPR personnel to be provided by bidder/integrator as per training Clause (Clause-8 of Section-C)	

## Institute for Plasma Research

# (An Autonomous Institute under Dept. of Atomic Energy)

Bhat, Gandhinagar

					Р	RICE SCHEDU	JLE (Section-	D)										
	IPR Enquiry NO & Date with Item Description :		IPR/TN/PUR/TPT/ET/17-18/38 DATED 27-02-2018 or "Supply of complete integrated Virtual Reality System along with installation, commissioning, integration and training as per the details given in the tender doc										er document"					
-		From																
	NAME OF THE CONTRACTOR :																	
	Offer no & date:																	
ļ																		
Sl.No	Item Description	Tendered Quantity	Unit of Measure ment (UOM)	Type of Currency	HSN / SAC Code (*1)		Rate in INR I		Rate in INR Packi		Rate in INR Packing and Forwarding Charge Per Unit (In percentage)		0 0	Per	Freight Charges Per Unit (In percentage)			
						Basic Unit Rate	Discount (in amount)	Basic Unit rate after discount	( in %) Only	Amount	( in %) Only	Amount	( in %) Only	Amount				
	Supply of complete integrated Virtual Reality System along with installation, commissioning, integration and training consisting of																	
1	DISPLAY SYSTEM related						1			•		1						
a	Projection System	3	Nos	INR				0.00		0.00		0.00		0.00				
	Projection Mechanics	3	Sets	INR				0.00		0.00		0.00		0.00				
	Display Screen (Front Screen)	1	Set	INR				0.00		0.00	Å	0.00		0.00				
	Display Screen (Side Screen)	1	Set	INR				0.00		0.00	·····	0.00		0.00				
	Display Screens (Floor Screen)	1	Set	INR				0.00		0.00	å	0.00		0.00				
	Display Screens Mechanics	3	Sets	INR				0.00		0.00		0.00		0.00				
	Stereoscopic Glasses	20	Nos	INR				0.00		0.00	<u>.</u>	0.00		0.00				
	Steroscopic Emitters	2	Nos	INR				0.00		0.00		0.00		0.00				
	TRACKING SYSTEM related													0.00				
	Tracking camera	4	Nos	INR				0.00		0.00	*	0.00		0.00				
	Tracking system controller	1	No	INR INR				0.00		0.00	å	0.00		0.00				
	Wireless Joystick Head Tracking	2	Nos Nos	INR INR				0.00		0.00 0.00		0.00 0.00		0.00				
	Real Time 3D Visualization Software	2	NOS NO	INR				0.00		0.00		0.00		0.00				
	10-Gigabit Ethernet Managed Switch	1	Nos	INR				0.00		0.00		0.00		0.00				
	5.1 Audio System	1	Nos	INR				0.00		0.00		0.00		0.00				
5	Installation, integration, commissioning at IPR site including unloading and shifting at site with handling equipment	1	Lumpsum	INR				0.00		0.00		0.00		0.00				
6	Training	1	Lumpsum	INR				0.00		0.00		0.00		0.00				
	Optional Items/Accessories							0.00		0.00		0.00		0.00				
' a	Optional Items/Accessories							0.00		0.00		0.00		0.00				
a b	Optional Items/Accessories							0.00		0.00		0.00		0.00				
											<u>.</u>							
С	Optional Items/Accessories		Į					0.00		0.00	ļ	0.00		0.00				
d	Optional Items/Accessories							0.00		0.00		0.00		0.00				

Place of delivery IPR Gandhinagar, Gujarat, India

### NOTES:

a) Custom Duty Exemption certificate will not be issued to any bidder under any circumtances.

b) Bidders should offer their quotes in INR only

c) Prices in this bid format alone are acceptable

d) If freight is not shown seperately it will be treated as "FREE DELIVERY"

e) Details specifications and scope of work are as per Attached Annexure

f) If the rate cells left blank, it will be treates as "0" (ZERO)

g) Kindly enable the Macros if you receive the "Security Warning" message. (Click on options in "Security Warning" and select "Enable this content" (\*1) HSN/SAC Code: To be filled by the bidder

IMPORTED NOTES: (I) "Evaluated total cost on the basis of bid prices will be calculated by Purchaser after bid opening & the same will be uploaded in etender potal later"

(II) "GST (IGST, CGST, SGST or any form) should not be included in the basic cost for either goods or services"