

### Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 19:00:00
Bid Opening Date/Time	20-07-2020 19:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	80 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	Eastern Railway
Total Quantity	1
Item Category	Virtual Reality Welding Simulator
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

### Virtual Reality Welding Simulator ( 1 pieces )

#### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Standard parameters	<b>Conformity to Certifications</b>	CE	CE
	Certification number and date	-	*
Performance parameters	Purpose	Virtual Simulation Device for Welding Trade is used to train students	*
	Type of welding simulator	Virtual Reality Type	*
	<b>Simulation Methodology</b>	Virtual	Virtual
	<b>Process Support by welding simulator</b>	SMAW,GMAW,GTAW,ROBOTIC,2 STEP/4 STEP,STICK,MIG	SMAW, GMAW, GTAW, ROBOTIC, 2 STEP/4 STEP, STICK, MIG
	<b>Type of Display</b>	LCD	LCD
	<b>Touch screen display</b>	Yes	Yes
	<b>Size of monitor in inch</b>	21-24	21-24
	<b>Random Access Memory in GB</b>	8 GB	8 GB
	<b>Size of hard disk in GB</b>	250 GB	250 GB
	<b>Processor</b>	Intel I 5	Intel I 5
	<b>Operating System</b>	Win 10	Win 10
	<b>Welding Position competency</b>	1G 2G 3G 4G 5G FOR PIPE,1F 2F 3F,Butt Fillet , T,Pipe to pipe,Pipe to plate	1G 2G 3G 4G 5G FOR PIPE, 1F 2F 3F, Butt Fillet , T, Pipe to pipe, Pipe to plate
	<b>Play Back Option</b>	Yes	Yes
	<b>Tracking System</b>	Magnetic Tracking System	Magnetic Tracking System
	<b>Work piece parameters</b>	Work angle, travel angle, speed and nozzle to- plate distance , torch angle and straightness	Work angle, travel angle, speed and nozzle to- plate distance , torch angle and straightness
	<b>Difficulty levels</b>	Basic,Intermediate and Advance	Basic,Intermediate and Advance
	<b>Workpiece</b>	Haptic workpieces	Haptic workpieces
	Material Thickness selection in mm	0.8 to 15 mm	*
	Number of Built in lesson for Students	Min 100	*

Number of Built in lesson for Instructors	Min 100	*
Provision of lessons shall be editable	Yes	*
<b>Language of unit</b>	English , Hindi	English , Hindi
<b>Connectivity</b>	both	both
<b>Provision of Multi Pass Welding Support</b>	Yes	Yes
Provision of Cross Sectional View option	Yes	*
Provision for Weld Gap Checking	Yes	*
Height & Tilt Adjustment option for work piece	Yes	*
<b>Polarity Selection Option</b>	DC and AC	DC and AC
Live Insta Correct Feedback system	Yes	*
Inbuilt Intelligence to prevent welding at wrong positions	Yes	*
<b>RFID Based card access system</b>	Yes	Yes
User login Facility	Yes	*
Administrative and trainer login	Available on monitor screen and could evaluate students activity Data backup and calibration facility	*
Administrative and trainer option	1. Evaluate students activity 2.Back up of data of student activity 3. Calibration of system 4.Video playback with option of viewing from diff angles	*
<b>Ability to track complete history of students</b>	Yes	Yes
<b>Provision to Records trainee's virtual weld assessment and gives personalized feedback</b>	Yes with Ghost playback and recording	Yes with Ghost playback and recording
<b>Report Features</b>	Yes	Yes

	<b>shall be On Screen and exportable to excel with score cards</b>		
	Grading feature	Actual Weld v/s Ideal Weld	*
	<b>Evaluation results</b>	Marks or graphs or both. Software must suggest pass/fail after completion of each course	Marks or graphs or both. Software must suggest pass/fail after completion of each course
	Machine Alerts	Wrong parameter selection , touching work piece	*
	Protection against	over current , over voltage, under voltage , short current	*
	<b>Provision of helmet</b>	3 D view helmet	3 D view helmet
	Weight of Unit in Kg	50-95 kg	*
	<b>Input Supply</b>	220-240 V, AC , 1 Ph , 50-60 Hz	220-240 V, AC , 1 Ph , 50-60 Hz
	Input current in ampere	0.5 to 11 A	*
	Length of power cable in meter	3	*
	<b>Maximum Power Consumption in watts</b>	400	400
Additional Parameters	Provision of UPS	Yes	*
	Software	With lifetime license including main OS such as windows and upgradeable	*
	<b>Maintenance and update</b>	Offline	Offline
	<b>Provision of networking simulator</b>	Yes	Yes
	Simulator Learning Module CD	1 No.	*
	Apron Shield	1 No.	*
	Gloves	1 Pair	*
	<b>VR gun attachments (STICK and/or MIG)</b>	1	1
	<b>workstation USB Cable</b>	1	1
	<b>Warranty in years</b>	1	1

Accessories parameters	<b>SMAW TORCH WITH ELECTRODE</b>	Yes	Yes
	<b>WORK PIECE PLATES FOR LAP JOINT, BUTT JOINT, FILLET JOINT, PIPE BUT JOINT AND PIPE FILLET JOINTS</b>	YES	YES
	<b>WORK STAND APPROPRIATE TO FIX THE JOB IN ALL POSITIONS</b>	YES	YES
	<b>SOFTWARE FOR OFFLINE ACCESS TO BE PROVIDED IN DVD/CD/PEN DRIVE</b>	YES	YES
	<b>ROUTER WITH CABLES</b>	YES	YES
	<b>UPS POWER BACKUP</b>	YES	YES
	<b>DISPLAY SCREEN TOUCH SCREEN FACILITY FOR EASY CONTROLLING OF THE MACHINE</b>	Yes	Yes
Reports	ISO certification of the manufacturer	ISO 9001 2015	*
	ISO cetification deatils such as date and number	-	*
	<b>Availability of test report from govt/ NABL/ILAC accredited lab covering all parameters</b>	No	No
	Test report number , Incase test reports not available , put NA	-	*
	Test report date, Incase test reports not available , put NA	-	*
	Name of test lab , Incase test reports not available , put NA	-	*
	Address of test lab , Incase test reports not available , put NA	-	*
	<b>Copies of all certifications and reports to be provided to buyer on</b>	NA ,Incase test reports not available	NA ,Incase test reports not available

	<b>demand at time of supplies ,</b>		
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\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

### Additional Specification Documents

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Sunny Bishwajeet	713301,DRM Building, Eastern Railway, Asansol	1	30

### Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)
2. IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.
3. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
4. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
5. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
6. **Nominated Inspection Agency:** On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance:  
Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC): No  
Post Receipt Inspection at consignee site before acceptance of stores: Yes
7. Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.
8. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.
9. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 15 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than

10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

[This Bid is also governed by the General Terms and Conditions](#)

**---Thank You---**