

# SCOPE OF WORK

## PATNA TOP: SUPPLY & INSTALLATION OF 55" INTERACTIVE FLAT PANEL FOR CR.

- 55 inch Touch Interactive panel is required to be Deliver and Install at BPCL PATNA TOP on below address:  
Patna TOP  
Bharat Petroleum Corporation Ltd,  
PAKRI, PATNA, INDIA - 800002
- Interactive panel Must have Below Featured in line with Technical Specification:
  1. A+ Digital display
  2. Zero Bonding Display
  3. In Built Wi-Fi Ethernet
  4. In Built Bluetooth.
  5. 4 mm unbreakable Toughened glass.
  6. 4K Ultra HD Display Resolution.
  7. Front Facing Powerful Speaker (X2).
  8. Android 11.0 8 GB RAM & Min 128 GB Storage.
  9. 4K Ultra HD White Board
  10. Anti-glare coating to absorb up to 80% of Light.
  11. Screen recording features.
  12. Indian Language Compatible.
  13. Multi Finger Gesture Control.
  14. Make in India.
- **Vendor to submit 50% MII Certificate.**
- **OEM should have BIS / CE / FCC / ROHS / ISO 9001:2015 / 14001:2015 / ISO/EN 27001:2013 / ISO 45000: 2018 / CMMI Level – 3, NSIC, E-waste (QCI Certification) should be valid and active. Anti-Collusion Certificate must be enclosed along with the Bid.**
- **OEM should qualified by Quality Council of India. OEM registered office should be in Tier 1 City in India along with manufacturing plant, need to provide valid GST Certificate & QCI OEM Certificate during the Bid Submission.**
- **The OEM should have also successfully completed similar works (in Civil works separately) in Central Govt. offices / State Govt. offices / attached offices / statutory bodies / PSU departments.**
- **Need 3-year ITR & balance Sheet, GST Return last six months.**
- **Active Service center must be in India.ESCALATION MATRIX TO BE PROVIDED.**
- All Technical Specification must meet the minimum Specification asked in Technical Data sheet, Bidder to fill the offered specification against the minimum technical Specification asked.
- Interactive Panel Must Have Below Features:
  1. Sharing screen, Screen casting, Screen mirroring, through Tablet, Laptop, Desktop, Android Mobile. Bidirectional Screen touch support in panel. 4 Device connect through sharing software. Display extended features are also available with HDMI out port."
  2. Take Remote of Panel trough any android Device & Control Panel.
  3. Inbuilt hotspot facility available in panel for wireless presentation
  4. Software should support Text Auto correction , Grammatical suggestion in text , Auto correction in shape, 2D & 3D Shape, mind Map, insert images Doc PDF, easily search in web, Universal URL link generator.
  5. Support play video clips, take snapshot and annotate on running video, lecture recording software, Timer, Alarm, Split Screen, child Lock.
  6. Control Management software to be embedded in the IFPD and this CM software and IFPD. Use as DNB, Manage & Display all digital content with interactive features.

7. Split Screen unlimited, Run multiple wallpapers, Run YouTube streaming, Run unlimited Multiple video, Run RSS, TXT, logo, Run live News. Sync & Send Data in few second any screen in Pan India through cloud based. Event Management through CMS
  8. Interactive Panel support Play Store , Cloud sync data facility , Lecture recording software, Zoom, Ms-team, Google Meet, Webx, Whats App single & Group Calling with Screen sharing facility.
- Supply & Transportation shall be in the scope of Vendor/Bidder.
  - Installation to be arranged at the above mentioned order within 15 days of Delivery of the product.
  - Any modification requires to install the same will be in the scope of BPCL.
  - L1 Vendor has to take care of all the Warranty Terms & Condition and On Site Warranty arrangement if any problems arise with the Panel during warranty period of 3 year.

	<b>Features</b>	<b>Minimum Specification Required</b>	<b>Offered Specification</b>
<b>Panel</b>	<b>LCD Size</b>	55"	<b>Must Required</b>
	<b>Type of Panel</b>	ADS	
	<b>Respond Time</b>	8ms	
	<b>Visual Ratio</b>	16:09	
	<b>Max Visual Area</b>	1258 (H) X 603 (V) mm	
	<b>Resolution</b>	3840 (H) X 2160 (V)	
	<b>Pixel pitch</b>	0.372 X 0.372 mm	
	<b>Frequency</b>	60 HZ	
	<b>Display Colors</b>	1.07B (10bit)	
	<b>Color saturability</b>	72%	
	<b>Contrast ration( Typ)</b>	1200::1	
	<b>Viewing Angle</b>	178°(H/V)	
	<b>Light source</b>	DLED	
	<b>Brightness</b>	350cd/m2	
	<b>Life Span</b>	≥50000hrs	
<b>Audio- video parameters</b>	<b>Soundtrack</b>	2	
	<b>Power</b>	2 X 15 W	
<b>Touch parameter</b>	<b>Touch specifications</b>	Non- contact infrared sensing technology	
	<b>Support Systems</b>	Windows10/ Windows8/ Windows7 /Windows XP/ Android/ Linux/ Mac OS X/ Chrome	
	<b>Touch Points</b>	20 Points Touch	
	<b>Min. Identifier</b>	2mm	
	<b>Input mode</b>	Input mode Opaque object ( finger, pen, etc)	
	<b>Respond time</b>	≤ 10ms	
	<b>Touch depth</b>	± 1mm	
	<b>Writing height</b>	≤ 3 mm	
	<b>Writing display</b>	Single Stylus pen two- colour	
	<b>Output coordinates</b>	32767 (W) ×32767(D)	
<b>System</b>	<b>System Version</b>	Android 11.0	<b>Must Required</b>
	<b>CPU</b>	Quad Core A5 5	

	<b>GPU</b>	Mali G5 2 MP2	
	<b>RAM</b>	8GB	<b>Must Required</b>
	<b>ROM</b>	128GB	<b>Must Required</b>
<b>Wireless</b>	<b>Bluetooth Version</b>	5.0	
	<b>Bluetooth Working Frequency</b>	2.4GHz	
	<b>Bluetooth Working Distance</b>	0-10 m	
	<b>WIFI Version</b>	802. 11ac/b/g/n/a/ax	
	<b>WIFI Working Frequency</b>	2.4GHz/5GHz	
	<b>WIFI Working Distance</b>	0~ 10m	
<b>I/O Interface</b>	<b>COAX</b>	1	
	<b>RS232</b>	1	
	<b>MINI AV</b>	1	
	<b>MINI AV OUT</b>	1	
	<b>EARPHONE</b>	1	
	<b>MIC IN</b>	1	
	<b>RJ45 IN</b>	1	
	<b>RJ45 OUT</b>	1	
	<b>VGA</b>	1 (Optional)	
	<b>PC AUDIO</b>	1 (Optional)	
	<b>MINI YBPBR</b>	1 (Optional)	
	<b>DP IN</b>	1 (Optional)	
	<b>HDMI</b>	2	
	<b>TOUCH OUT</b>	1	
	<b>Android USB3 . 0</b>	1	
	<b>Public USB3 . 0</b>	1	
	<b>HDMI OUT</b>	1 (Optional)	
	<b>TF CARD</b>	1	
<b>TYPE- C</b>	1(front)		
<b>Front Interface</b>	<b>USB3.0</b>	3	<b>Must Required</b>
	<b>TOUCH USB</b>	1	<b>Must Required</b>
	<b>HDMI IN</b>	1	<b>Must Required</b>
	<b>Type C</b>	1	<b>Must Required</b>
<b>Power</b>	<b>Voltage</b>	100-240V ~ 50/60Hz 4A	
	<b>Max. power consumption</b>	400W	
	<b>Standby power consumption</b>	≤0.5W	
<b>Structure</b>	<b>Bare dimension</b>	1488.4×896.6×87.2mm	
	<b>Packing dimension</b>	1630×220×1050mm	
	<b>Machine+ wall mount thickness</b>	116.5mm ( WIB9060G)	
	<b>VESA hole site</b>	600×400mm	
	<b>Wall mounting screw specifications</b>	M8×25mm	
<b>Accessories</b>	<b>Power cord</b>	×1	<b>Must Required</b>
	<b>Stylus pen</b>	×2	<b>Must Required</b>
	<b>Wall mount</b>	×1	<b>Must Required</b>
	<b>Operation manual</b>	×1	<b>Must Required</b>
	<b>Working temperature</b>	0°C~40°C	

<b>Environment</b>	<b>Working humidity</b>	10%~90%RH	
	<b>Working Elevation</b>	<5000m	
	<b>Interactive Flat Panel Support Features:</b>	<ul style="list-style-type: none"> <li>• DNB Software</li> <li>• Play the content remotely through cloud</li> <li>• Support - Video, JPEG, PNG, MP4, MP3</li> <li>• Split screen</li> <li>• HTML</li> <li>• Live streaming</li> <li>• Live news</li> <li>• Accesses server via panel (Lan Cable)</li> </ul>	
	<b>Brightness Adjustment</b>	The Machine intelligently sense the changes of ambient light and automatically adjust the brightness of screen to achieve environments, effectively protecting the eyesight of teachers and students and achieving the energy saving effect at the same time	