

# TECHNOCRATZ

LED DISPLAY SYSTEMS

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*PRESENTS*

## LED Hockey Scoreboard



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## Proposal and technical specifications for the LED Hockey scoreboard

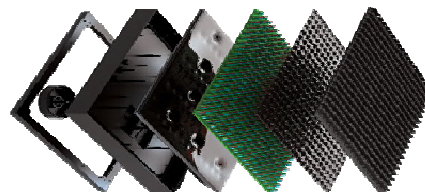
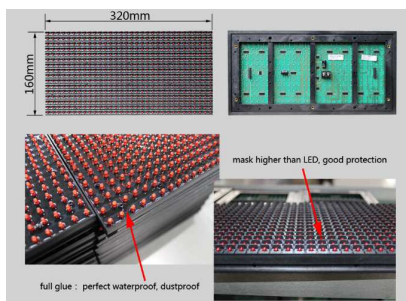
LED Hockey Scoreboards manufactured by Technocratz are available in variety of sizes starting from 8" x 2 feet, 2 x 3 feet to large full color screens of 12 x 18 feet which can run score as well as videos. Most of our Scoreboards operate from Android mobile app wirelessly via Bluetooth and for larger distance the data is transmitted via RF. The Outdoor LED scoreboards are fully rain proof and visible in daylight. The front of the Outdoor Scoreboards is covered with unbreakable 3mm polycarbonate sheet with laminated vinyl print where you can have Institute / Club / Unit / School / Stadium name in print with logo

Technocratz LED Scoreboards use the P10 LED modules and not the general local digits which are assembled manually. These modules have the LED, IC and the components mounted by machines on double sided glass epoxy PCB and made waterproof using silicon and fixed on to high grade plastic frame making them shock proof and virtually maintenance free. The Scoreboard is made up of 100% rainproof MS powder coated housing with front covered with Unbreakable transparent polycarbonate sheet having a laminated attractive print. The Scoreboard electronics consists 3 basic components i.e. the **LED modules** of 6 x 12" each powered by **SMPS** connected to one another and the microcontroller based **motherboard**. The scoreboards are manufactured maintaining high standards hence the chances of defect are minimal, still if a fault occurs, these components are connected to each other via connector based FRC ribbon cable and the 5 volt power too has connectors which makes the scoreboard modular and easy to maintain.

Android App Screenshot



Picture of the LED Modules used.



**Module Parameter:**

<b>Pixel pitch</b>	<b>10mm</b>
<b>Pixel Density</b>	<b>10,000 dots/m<sup>2</sup></b>
<b>Pixel configuration</b>	<b>1R ( Red , Green, Yellow, White available) ( RGB SMD for full color )</b>
<b>LED type</b>	<b>DIP346</b>
<b>Module size</b>	<b>320*160mm</b>
<b>Module weight</b>	<b>583g</b>
<b>Module resolution</b>	<b>32*16dots</b>
<b>Brightness</b>	<b>≥2000 cd/m<sup>2</sup> ( Higher for Full color)</b>
<b>Viewing Angle</b>	<b>H≤110° V≤50°</b>
<b>Driving Mode</b>	<b>1/4 scan constant current</b>
<b>Interface</b>	<b>HUB12</b>
<b>Input voltage</b>	<b>4.8-5.5VDC</b>
<b>Max. Power Consumption</b>	<b>220 w/m<sup>2</sup> ( LED Area)</b>
<b>Avg. Power Consumption</b>	<b>80-100 w/m<sup>2</sup> ( LED Area)</b>
<b>Max. Current</b>	<b>2.6-2.9A</b>
<b>Frame rate</b>	<b>60 frames/s</b>
<b>Refresh Rate</b>	<b>≥200Hz</b>
<b>Defective Dots Rate</b>	<b>&lt;0.0001 (LED display line standard: ≤ 0.0003)</b>
<b>Decay Rate</b>	<b>≤5%/year</b>
<b>Brightness Conformity</b>	<b>&gt;95 %</b>
<b>MTBF</b>	<b>≥10000 hours</b>
<b>Lifespan</b>	<b>≥50000 hours</b>
<b>Protective function</b>	<b>Over-heat/Over-load /Power-down /Power-Leakage/Lightning-protection etc.</b>
<b>Operating Temperature</b>	<b>-20°C~+50°C</b>
<b>Operating Humidity</b>	<b>10-85% no condensation</b>
<b>Storage Temperature</b>	<b>-30°C~+60°C</b>
<b>Storage Humidity</b>	<b>10-95% no condensation</b>

**Scoreboard Specifications:**

<b>Alphabet height</b>	<b>2.5",4",6",12" and more as mentioned in models</b>
<b>LED Color</b>	<b>Red ( Green, Blue, Yellow, White also available) RGB for Full color</b>
<b>Box</b>	<b>MS box black powder coated</b>
<b>Voltage</b>	<b>220 Volt AC 50Hz</b>
<b>Data Communication</b>	<b>Bluetooth (8-10 meters), RF for up to 80 meter</b>
<b>LED Pitch</b>	<b>All rates for outdoor boards are for P10 resolution. Higher resolution like P6,4,3 are available in FCS (Full color video screen scoreboards ) and prices will be given on demand</b>

## Price List : Semi Digital Scoreboards

<b>Model</b>	<b>Size ( Feet)</b>	<b>Rate / Unit</b>
HKS -01	15'' x 30''	Rs. 12,500/-
HKS -02	15'' x 30''	Rs. 16,000/-
HKS -03	2' x 3'	Rs. 20,000/-
HKS -04	3' x 4'	Rs. 25,000/-
HKS -05	3' x 4'	Rs. 25,000/-
HKS -06	3' x 4'	Rs. 30,000/-
HKS -07	3' x 4'	Rs. 32,000/-
HKS -08	3' x 5'	Rs. 36,000/-
HKS -09	3' x 5'	Rs. 36,000/-
HKS -10	4' x 6'	Rs. 60,000/-
HKS -11	4' x 6'	Rs. 64,000/-
HKS -12	6' x 8'	Rs. 1,20,000/-
HKS -13	6' x 10'	Rs. 1,35,000/-
HKS -14	8' x 12'	Rs. 2,40,000/-
HKS -15	10' x 12'	Rs. 3,20,000/-
HKS -16	8' x 14'	Rs. 2,50,000/-
HKS -17	10' x 14'	Rs. 3,20,000/-
HKS -18	10' x 20'	Rs. 4,40,000/-
HKS -19	10' x 20'	Rs. 5,00,000/-
SB -01	10'' x 24'' Digit 8''	Rs. 9,000/-
SBB -01 Battery backup	10'' x 24'' Digit 8''	Rs. 12,000/-
SB -02	12'' x 36'' Digit 10''	Rs. 12,000/-
SBB -02 Battery backup	12'' x 36'' Digit 10''	Rs. 15,000/-
Movable stand with wheels	For 3x4'	Rs. 5000/-
Movable stand with wheels	For 4x6'	Rs. 7000/-
<ul style="list-style-type: none"> <li>All Models operated by Android mobile App via Bluetooth . If you want to operate from distance larger than 8-10 meter then RF Amplifier is required which costs Rs. 3000/- extra</li> </ul>		

<b>Model</b>	<b>Size ( Feet)</b>	<b>Rate / Unit</b>
<b>Multi-Sport Scoreboards</b>		
MSS -01	2' x 3' (25 x 37")	Rs. 24,000/-
MSS -02	3' x 4' (37 x 44")	Rs. 36,000/-
MSS -03	4' x 5' (44 x 63")	Rs. 60,000/-
One sport software free along with the board, Rs. 2000/- per extra sport		
<b>Single Color Screen ( Multi Sports ) P10</b>		
SCS -01	4' x 5' (44 x 63")	Rs. 70,000/-
SCS -02	5' x 7' (63 x 88")	Rs. 1,18,000/-
SCS -03	6' x 9' (75.6 x 113.3")	Rs. 1,75,000/-
SCS -04	9' x 12'(113.3 x 151")	Rs. 3,40,000/-
One sport software free along with the board, Rs. 4000/- per extra sport		
<b>Full Color Video Screen ( Multi Sports ) P10</b>		
FCS -01	4' x 5' (44 x 63")	Rs. 1,10,000/-
FCS -02	5' x 7' (63 x 88")	Rs. 1,90,000/-
FCS -03	6' x 9' (75.6 x 113.3")	Rs. 2,85,000/-
FCS -04	9' x 12'(113.3 x 151")	Rs. 5,60,000/-
One sport software free along with the board, Rs. 5000/- per extra sport		

**Terms :**

<b>Transportation</b>	<b>Price ex works Delhi</b>
<b>GST</b>	<b>Extra @ 18%</b>
<b>Delivery</b>	<b>2 weeks against PO and advance. Some models are available in ready stock</b>
<b>Payment term</b>	<b>50% advance , 50% on inspection and before dispatch</b>
<b>Warranty</b>	<b>One year</b>
<ul style="list-style-type: none"> <li>• Hooks/clamps will be provided for installation.</li> <li>• If Mobile stand is required the cost will be extra</li> <li>• Installation/ structure cost not included, engineer will be provided for commissioning, training and service on TA / DA basis @ Rs.2500/- per day if required, the systems are plug and play ,simple to operate and do not require Engineer to install</li> <li>• Packing will be in thermocol, corrugated sheet and MDF for safe transportation and is included in the cost</li> <li>• Most of the semi digital scoreboard models operate from Android mobile app ( * are operated with keypad console ) SCS and FCS screens are operated from PC</li> </ul>	

**Model HKS – 01 : 15 inch x 30 inch. All digits 6". Keypad operation option available  
Cost Rs. 12,500/- ( Ex Works Delhi Plus GST @ 18%)**



**Model HKS – 02: 15 inch x 30 inch. All digits 6".  
Cost Rs. 16,000/- ( Ex Works Delhi Plus GST @ 18%)**



Model HKS – 03 : 2 feet x 3 feet. All digits 6".  
Cost Rs. 20,000/- ( Ex Works Delhi Plus GST @ 18%)



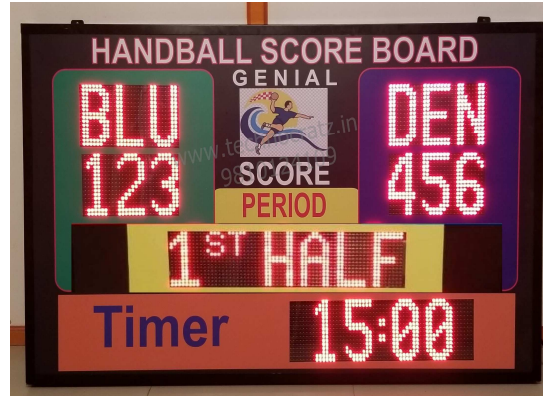
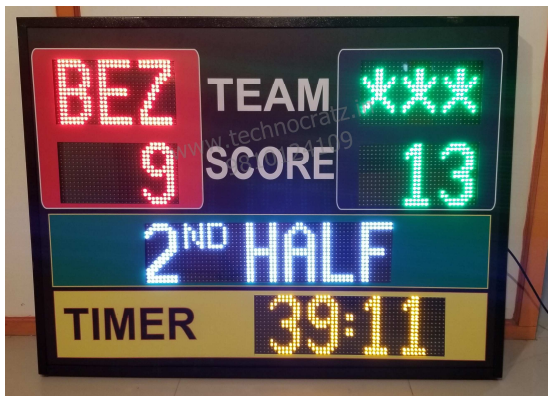
Model HKS – 04 : 3 feet x 4 feet. All digits 6".  
Cost Rs. 25,000/- ( Ex Works Delhi Plus GST @ 18%)



Model HKS – 05 : 3 feet x 4 feet. All digits 6".  
Cost Rs. 25,000/- ( Ex Works Delhi Plus GST @ 18%)



**Model HKS -06 : 3 x 4 feet with two team names of 3 alphabets each. All digits 6"**  
**Cost Rs. 30,000/- ( Ex Works Delhi Plus GST @ 18%)**



**HKS- 07: 3 Feet x 4 Feet. ( Digits 6")**  
**Cost Rs. 32,000/- ( Ex Works Delhi Plus GST @ 18%)**  
**The team names are 3 alphabets each in digital. There is a provision to have the team name and message alternating (The message part is independent of App)**



Model HKS -08 : 3 x 5 feet with two team names of 6 alphabets each. Scores 12” and rest of the digits 6”  
Cost Rs. 36,000/- ( Ex Works Delhi Plus GST @ 18%)



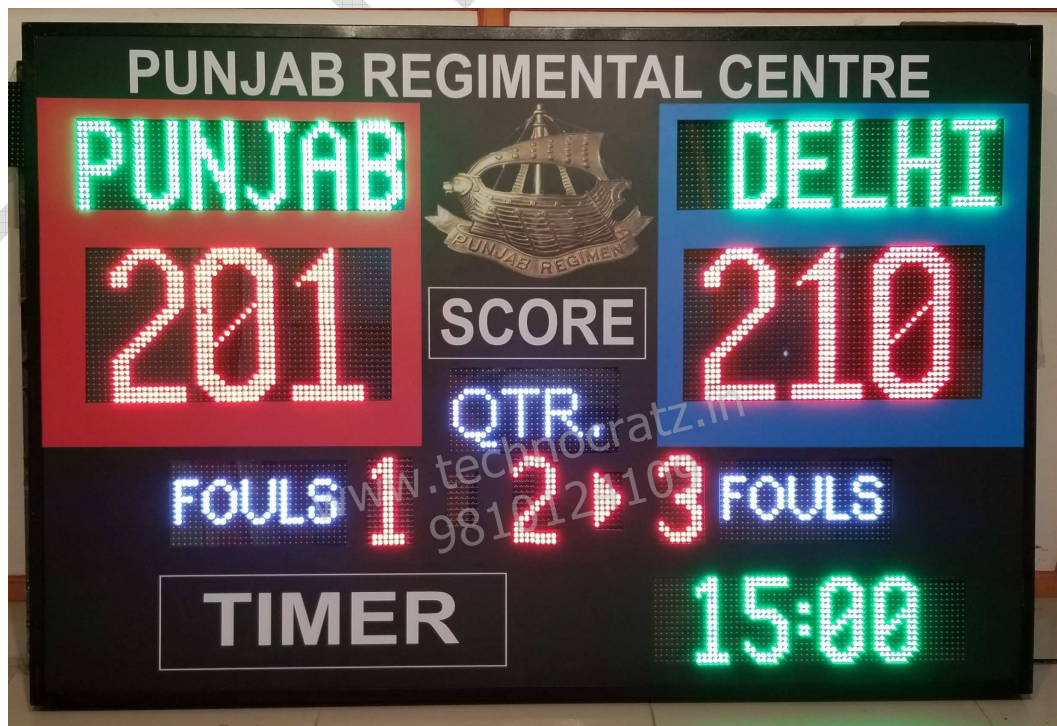
Model HKS -09 : 3 x 5 feet with two team names of 6 alphabets each. Scores 12” and rest of the digits 6”  
Cost Rs. 36,000/- ( Ex Works Delhi Plus GST @ 18%)



Model HKS –10 : 4 x 6 feet with two team names of 6 alphabets each. Scores 12” and rest of the digits 6”  
Cost Rs. 60,000/- ( Ex Works Delhi Plus GST @ 18%)



Model HKS –11 : 4 x 6 feet with two team names of 6 alphabets each. Scores 12”, rest of the digits 6”. The Fouls, Period, Fouls section is selectable to allow the board to be used for multiple sports as shown in the 2 pics below  
Cost Rs. 64,000/- ( Ex Works Delhi Plus GST @ 18%)



**Model HKS –12 : 6 x 8 feet with two team names of 9 alphabets each. Scores and timer 18” and rest of the digits 6”**  
**Cost Rs. 1,20,000/- ( Ex Works Delhi Plus GST @ 18%)**



**Model HKS –13 : 6 x 10 feet with two team names of 9 alphabets each. Scores and timer 18” and rest of the digits 6”**  
**Cost Rs. 1,35,000/- ( Ex Works Delhi Plus GST @ 18%)**



**Model HKS –14 : 8 x 12 feet with two team names of 8 alphabets each. Scores and timer 24” and rest of the alphabets and digits 12” ( picture similar to HKS-13 , only difference being that digits are 24” instead of 18” and alphabets 12” instead of 6”)**  
Cost Rs. 2,40,000/- ( Ex Works Delhi Plus GST @ 18%)

**Model HKS –15 : 10 x 12 feet with two team names of 8 alphabets each. Scores and timer 24” and rest of the alphabets and digits 12” ( picture similar to HKS-13 , only difference being that digits are 24” instead of 18” and alphabets 12” instead of 6”)**  
This has a Tournament name Line at the top.  
Cost Rs. 3,00,000/- ( Ex Works Delhi Plus GST @ 18%)

**Model HKS –16 : 8 x 14 feet Scores, Penalty and timer 24” . Half 6”**  
Cost Rs. 2,50,000/- ( Ex Works Delhi Plus GST @ 18%)



**Model HKS –17 : 10 x 14 feet with two team names of 8 alphabets each. Scores, Penelty and timer 24” Half 6”**  
Cost Rs. 3,20,000/- ( Ex Works Delhi Plus GST @ 18%)



Model HKS –18 : 10 x 20 feet with two team names of 9 alphabets each. Scores and timer 24” and rest of the digits 12”  
Cost Rs. 4,40,000/- ( Ex Works Delhi Plus GST @ 18%)



Model HKS –19 : 10 x 20 feet with two team names of 9 alphabets each. Scores and timer 24” and rest of the digits 12” . Tournament line and sponsor lines at top and bottom of 12” each  
Cost Rs. 5,00,000/- ( Ex Works Delhi Plus GST @ 18%)



# Substitution Boards

**Model SB –01 : 10” x 2 feet. Digit size 8” with 2 digits for each team , one in red and one in green. The digits are selectable from onboard buttons for IN and OUT working on 220 Volt AC . SBB-01 is the same board with battery backup**

**Cost ( Ex Works Delhi Plus GST @ 18%)**

**SB-01 Rs. 9,000/-**

**SBB-01 Rs. 12,000/-**



**Model SB –02 : 10” x 2 feet. Digit size 10” with 2 digits for each team , one in red and one in green. The digits are selectable from onboard buttons for IN and OUT working on 220 Volt AC . SBB-02 is the same board with battery backup**

**Cost ( Ex Works Delhi Plus GST @ 18%)**

**SB-02 Rs. 12,000/-**

**SBB-02 Rs. 15,000/-**

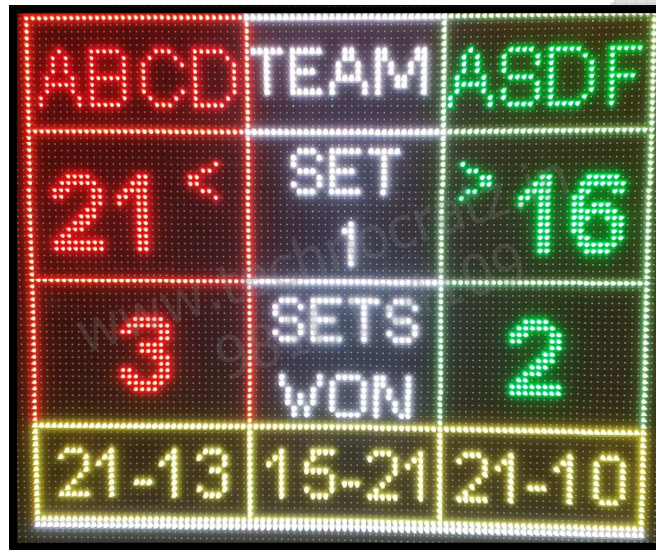


# Multi-Sport Scoreboards (MSS Series)

- Single color Scoreboard using different color LED for two teams and other parameters.
- This Scoreboard can be used for multiple sports.
- The Scoring is done on Android mobile App via Bluetooth
- One sport software comes free with the Scoreboard and the charge per extra sport will be Rs. 2000/- per sport

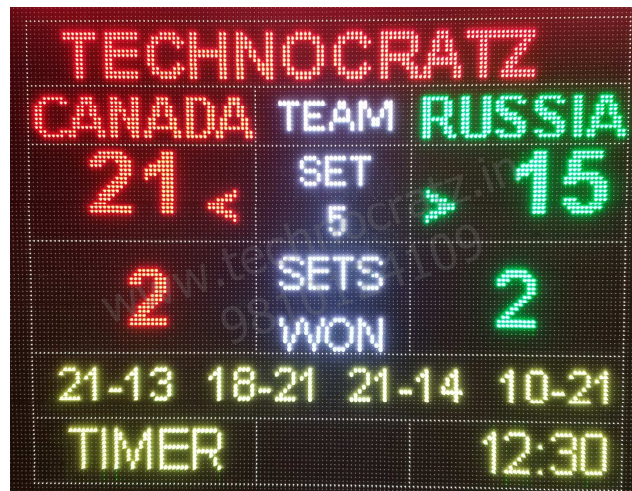
Model MSS – 01: 2 x 3 feet. ( similar for Hockey with two team names, Goals and Timer.)

Cost Rs. 24,000/- ( Ex Works Delhi Plus GST @ 18%)

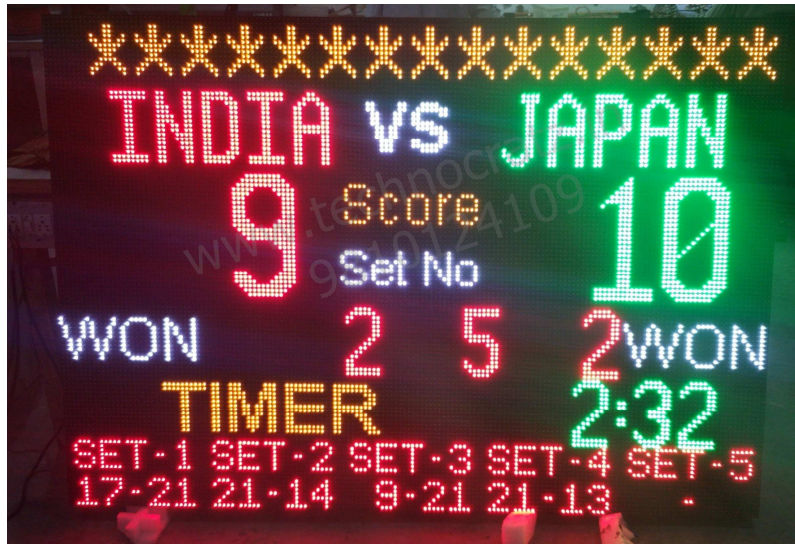


Model MSS – 02: 3 x 4 feet. ( similar for Hockey with two team names, Goals and Timer.)

Cost Rs. 36,000/- ( Ex Works Delhi Plus GST @ 18%)



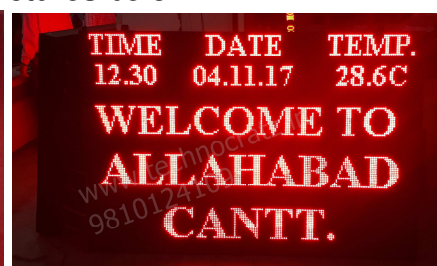
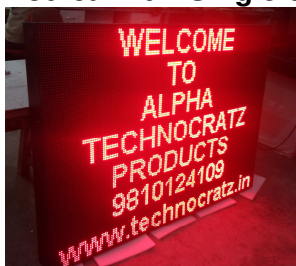
Model MSS – 03: 4 x 5 feet.  
Cost Rs. 60,000/-



## Single Color Screen Scoreboards ( SCS Series )

- Single color Scoreboard using Single color Red LED.
- This Scoreboard can be used for multiple sports.
- The Scoring is updated on Screen Via PC
- One sport software comes free with the Scoreboard and the charge per extra sport will be Rs. 3000/- per sport.
- The main advantage of this board is that we can also use this as a normal LED board for Messages in single or multiple lines in multiple languages and multiple fonts, Time and date display.
- This Message facility can be used before the Match For Tournament name, Team names on full screen, Points table, Welcoming the Chief Guest, Sponsors names and messages or any type of messages and after the match the same screen can be used to congratulate the winner, the man of the match or tournament etc
- When the board is not being used as a scoreboard it can be fixed at some other location like gate or any prominent place near office entrance etc to run messages mentioned above. Some message pictures shown below.

You can run Single color messages like those in pictures below



Model SCS – 01: 4 x 5 feet .  
Cost Rs. 70,000/-



Model SCS – 02: 5 x 7 feet .  
Cost Rs. 1,18,000/-



Model SCS – 03: 6 x 9 feet .  
Cost Rs. 1,75,000/-



Model SCS – 04: 9 x 12 feet .  
Cost Rs. 3,40,000/-

## Full Color Video Screen Scoreboards ( FCS Series )

- Full color Scoreboard using RGB LED.
- This Scoreboard can be used for multiple sports.
- The Scoring is updated on Screen Via PC
- One sport software comes free with the Scoreboard and the charge per extra sport will be Rs. 5000/- per sport.
- The main advantage of this board is that we can also use this as a normal LED Video board for display of Videos in Millions of colors, Pictures, messages, Time and date display.
- This Video Message facility can be used before the Match For Tournament name, Team names on full screen, Points table, Welcoming the Chief Guest, Sponsors names and videos or any type of messages and after the match the same screen can be used to congratulate the winner, the man of the match or tournament etc
- When the board is not being used as a scoreboard it can be fixed at some other location like gate or any prominent place near office entrance etc to run videos or messages mentioned above. Some pictures shown below.

Model FCS – 01: 4 x 5 feet .  
Cost Rs. 1,10,000/-



Model FCS – 02: 5 x 7 feet .  
Cost Rs. 1,90,000/-



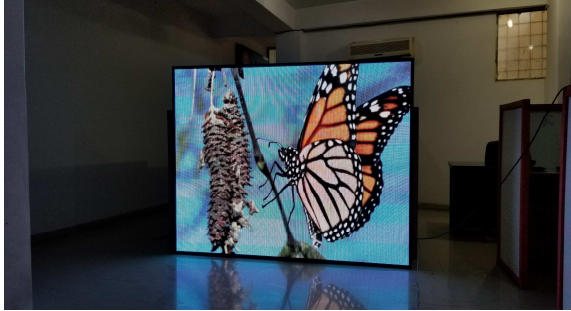
Model FCS – 03: 6 x 9 feet .  
Cost Rs. 2,85,000/-



Model FCS – 04: 9 x 12 feet .  
Cost Rs. 5,60,000/-



You can run videos or the pictures shown below



Movable stand :



Technocratz