

## PROCEDURE TO ATTEND TEXAS INSTRUMENTS INDIA WEBENCH® DESIGN CONTEST ROUND 2

STEP 1 : Click On **Start Here**

Texas Instruments India WEBENCH® Design Contest

Email

Password

[Forget Password](#)  [New user](#)

STEP 2 : Enter Your **Email, Password** and click **Submit**

Texas Instruments India WEBENCH® Design Contest

Email

Password

[Forget Password](#)  [New user](#)

### Round 2: Design using WEBENCH

Instructions:

- Please ensure that you have a [my.TI Account](#)
- You must design using WEBENCH® as per the design specifications
- Simulate your design & capture the results
- Share your WEBENCH® design report through Share Design and as a PDF file via email to [webench@stepsmail.com](mailto:webench@stepsmail.com)
- Click here for Round 2 [help](#) menu

STEP 3: Select **Take the design Challenge** option

STEP 4: The Round 2 question window appears as below

**Design Challenge**

Design a low cost synchronous buck converter.

**Design Specification**

- Vin(Min) = 10 V    Vin(Max) = 15 V
- Vout = 5 V        Iout = 1 A
- Ambient temperature: 30 Degree Celsius
- IC should be a synchronous step down regulator
- IC should operate in advance eco-mode
- The efficiency should be greater than 90%
- Foot print should be less than 130mm<sup>2</sup>
- BOM cost should be less than 2\$ and the solution should have lowest BOM cost
- BOM count should be less than 10
- Should consist of Maximum WEBENCH® tools (minimum 5 tools)

STEP 5: Read the question carefully and click **Start your design with WEBENCH®**

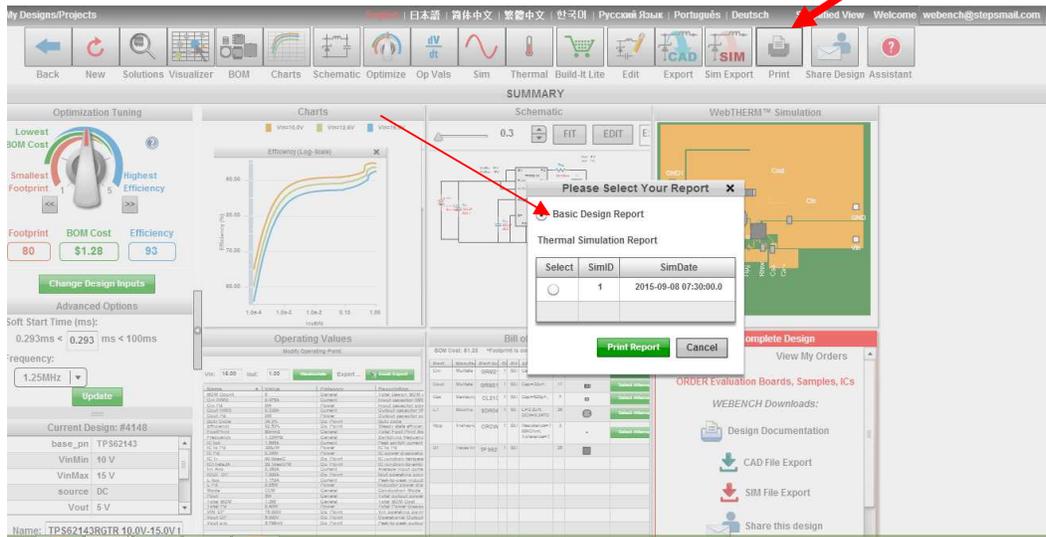
STEP 7: You will redirected to **TI WEBENCH® Design Center webpage**

STEP 7: Use you're my TI username and password to log on to TI website and complete your design using the **WEBENCH® Designer**

STEP 8: After completing your design select **Share Design** Option

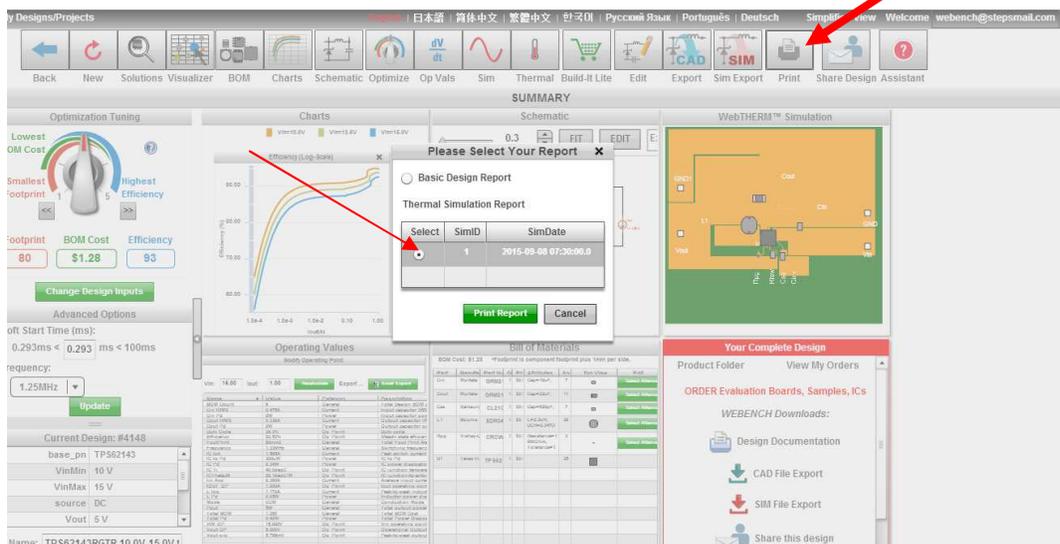
After entering the Email ID and your notes select the **Share the Design** option to share the Report

STEP9: Select **Print** Option



Please select **Basic Design Report** Option and select **Print report** ---- Save the pdf file

STEP9: Again Select **Print** Option



Please select **Thermal Simulation Report** Option and select **Print report** ---- Save the pdf file

STEP10: From your Registered Email Id attach both the pdf files (Step 8, 9) and send a Email to [webench@stepsmail.com](mailto:webench@stepsmail.com) .

Note : Designs submitted thru **Share Design Option** (STEP 8 ) **and** **pdf files**(Step 8, 9) alone will be considered for evaluation. Both share design and pdf files are required for evaluation.