4. **Describe the problem you are solving.**

The proposed model will try to help a blind person understand his environment more effectively. A blind person has no clue what is around him like, given a wooden object he can just feel that it is a wooden thing but cannot exactly say whether it is a table or a chair and has no idea about how people are reacting to him while he/she is talking to them. So the model which we proposed will try to capture his surrounding and convert that image to audio signal describing the image(surrounding) and informs him about the same, hence making him aware of his surrounding. Therefore the model will try to solve the problem of a blind person to understand the environment effectively.

**5. Who is your customer? [Age Group, Income levels, geography etc.**

Our customers are the people who lack sight, either partial or complete, of any age or income group, and ethnicity. In India alone around 31 million people are either partially or completely blind.

**6. Why does solving the problem matters. Describe the impact of your solution in terms of efficiency, throughput, cost saving, etc.**

Solving the problem matters a lot because as a fellow human being even they have the right to feel the world as we all normal people do. Even society, most of the time is not generous towards them. For most of the activities in their everyday life they have to depend on others help. And many a times they don’t get helping hands, this makes them feel weak and helpless. A survey says that only 23% of them are employed. Therefore we think it is a serious issue which matters a lot.

(Impact of our solution)A blind person can now be more aware of his surrounding and less dependent on others for help. This will make him independent and his life more happy.

**7. What is customer using right now to solve the problem (your current competition)?**

Currently, our customers, the blind people, are entirely dependent on the lame walking stick and the generosity of the people around them. Several prototypes are in the making but none of them are in widespread use.

**8. What is your core technical innovation? Share details on technical differentiation of your product compared to current competition.**

Our product integrates a camera into spectacles. The image data captured by the camera is wirelessly transmitted to a pocket device. This pocket device has processor in it to compute the data. The device processes images, collects useful information and conveys it in aural format to the user through a speaker which is attached with the spectacles.(difference between our product and others) No prototype we have seen so far uses a separate pocket device like ours to compute the image data. Many of the prototypes try to embed the processor in the spectacles, making it heavy and uncomfortable to wear. And also the size of the processor is reduced which will make the processor little slow to process hence decreasing its performance. We are also embedding speakers at the temple of the spectacles. Instead of then transmitting sound waves outside the ears, they send sound waves as vibrations through the skull. The wearer hears crystal clear sound while the outside world hears almost nothing (zungle sunglasses uses this technology).

**9. What TI products do you intend to use in the design of your solution. Share the part numbers with TI.COM links**

**10. How does your proposed innovation meets the Make in India initiative.**

The entire product conception, design, prototyping, assembly and deployment will be indigenous.