(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053428 A

(19) INDIA

(22) Date of filing of Application :20/11/2021

(43) Publication Date : 03/12/2021

(54) Title of the invention : DIGITAL MULTI PURPOSE WEIGHING MACHINE

(51) International classification : G01G0003120000, G01G0023370000, G01G0003147000, G01G0021240000, G01G0023010000	(71)**Name of Applicant :**
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(86) International Application No :NA Filing Date :NA	
(87) International Publication No : NA	
(61) Patent of Addition to Application Number :NA Filing Date :NA	
(62) Divisional to Application Number :NA Filing Date :NA	

(57) Abstract :

The system were to read weight (kilogram, liter) measured in the conventional analog form to digital form, achieve high precision in measurement and calibration. The components used for this project are Load Cell, Hx711 Load Cell amplifier, PIC Microcontroller, and an LCD module. In this project, a 40kg load cell is used. The load cell sends output signals of the mechanical weights measured to the Hx711 module which amplifies and sends the output to the PIC microcontroller. The microcontroller calibrates the output signal with the aid of the load cell amplifier module before sending the signal which is already converted to digital form to the LCD module for display. The system developed has proved that a digital electronic weighing system can be low cost, miniaturized, detached and can take accurate readings devoid of errors.

No. of Pages : 4 No. of Claims : 5