(21) Application No.202011046473 A

(19) INDIA

(22) Date of filing of Application :24/10/2020 (43) Publication Date : 29/04/2022

## (54) Title of the invention : DEVELOPMENT OF BISMUTH HYDROXIDE COATED RICE HUSK FOR THE ADSORPTION OF FLUORIDE FROM WATER

|   | :C02F0001280000, | (71)Name of Applicant:                                  |
|---|------------------|---|
|   | C02F0001660000,  | 1)Chitkara Innovation Incubator Foundation              |
| (51) International classification                 | C02F0101140000,  | Address of Applicant :SCO: 160-161, Sector - 9c, Madhya |
|   | B01J00200600000, | Marg, Chandigarh- 160009, India. Chandigarh India       |
|   | B01J0020020000   | (72)Name of Inventor:                                   |
| (31) Priority Document No                         | :NA              | 1)SRIVASTAV, Arun Lal                                   |
| (32) Priority Date                                | :NA              |   |
| (33) Name of priority country                     | :NA              |   |
| (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 present invention relates to a method for purification of water. Specifically, the present invention relates to purification of water and, in particular, for removal of fluoride ions from water. The present invention further relates to method for removal of fluoride ions from water using bismuth hydroxide coated rice husk. The present invention provides bismuth coated risk husk as an adsorbent for fluoride ions.

No. of Pages: 12 No. of Claims: 10