Discuss the potential of Biosolids in revolutionising Indian agricultuse with Suitable illustration.

(150 W 10M). R Biosolids are remained solid material of sewage treatment of municipalities. Biosolide contain such organic menerals & heavy materials (can be stabilised by adding lime) further benefitting India agriculture as follows -O Decrease depedence of ferlilizers on Imports as biosolids contain potassiumk), Calcium, Magenesium 2) Enrichment of soil nutrients provided with high yield. Practices already taking place in country like USA. 3) Sustainable agriculture practices provided low chemicals and organice fertilizeus. Promotes Circular Economy as the process involve Recycle and reuse further peromoting sustainable practices.

Dome sultable enamples of Biosolids ienclude - 1) Ligomonite 42) Loop 43) TOGER As agriculture in India struggling with WTO respictions, fertilizeers dependence and increasing demand of organic & festilizers
less food, Biofuels can revolutionize the agriculture prioriting field and can also help Doubling the favirer's Income.

1

what are the key factor deiring electricity demand in Endia. Also enamine the ways to meet its erising power demand in Endia. (250 w, 15 M). As per Central Electricity Authority (CEA), electricity demand in India estimated around 9% of CAGR between 2022-2030. Reposits also estimates overshooting.

Key factous

- 1 Increasing Population Growth resulting naturally increase in demand.

- @ Vebanisation - Ace to Census 2011, 31.2%. ropulation lève in vaban aveas demanding batter educational, health and many services further doining energy consumption.

3 Smart-Home Appliances prevalency and need of daily household also counts for

Quigital unitatives promotion like E-hospital, Eleovernance, UPI etc.

Peromotion of Digital & Smart Education in school or households-

also heavily depend upon electricity as cleetricity is backbone of all the initiatives.

- Charging Ingrastructure are other component.
  - Jenereased Standard of living further depends mainly on electricity.
  - (8) Climate Change constituent for major reasons on increased consumption.

    Several states have already noticed & warning about Severe Heat stuckes.

ex-B'logs Bengalore presson twitted last year about severe climate & AC-installation.

Above state factors provides for demand deriving in electricity consumptions resulting. On urgent need to intervene and take suitable steps to meet its demands are as follows -

1 Increase in Capabilities of Renewable Energy which includes → Solan Energy, wind energy & hydro Energy.

2) Incentivise Dis-com to meet its demands.

3 Emphasis of Rooflop Solar plant scheme installation.

3) Smart Gend & Grid Modernization, where energy from diff. resources can be stored & used in effective marrier.

3 Personotion of Bio-fuels, Bio-energy to decrease dependence on energy.

Efficient eux.

et. are the vaccious intervention behind can prove helpful in managing increasing countries have demand. However Government of India has demand. However Government of India has demand initiatives like 500 GW by 2030, taken many initiatives like 500 GW by 2030.

Analyze the potential oppositurities and challenges for Ludian ludustures arising from the ongoing topader blu U.S. & Chiver. (250 W, 15 M) Jeade near is an economic condition where Countries put itarings and duties on each-others product making it costly. Since February, Donalb US president Foump imposed 20% Janiff on Chinese product and in retaliation, China impose 15%, tariff on US products including agricultural product. And with growing diffeences blue these country, Indian industries can tap the oppostunity.

Petential oppositurity

- 1 Can perovide alternative to the MNCs fee manyacturing bases outside China.
- 2) Diversity its trade by with countries amid U.S. Sanctions.

Lex - Diversity its leade with Mexico, Carade,

- (3) Peroviding China's replacement therough India's trade and producting into U.S.
- 9 It can make the Indian Industries, by peroviding R&D, the hub for Investment.
- De Abro Tentile, IT sector, Pharmaceutical etcan achieve global recognition by boosting Sector-specific impact.
- Eupply chain peroviding its cheap labour and to many acturers base in India.
- F) By Schemes like Make in India, India Com boost their Manufacturing & processing denit, further empanding the markets.
- Ex Dairy products, fruits & Vegetables (perishable product) ais India is largest puoducer.

are the rarious opportunities ahead of cudia. However these are coupled with no. of challenges, as follows -

D'Innted terade mærket er diversification in global mærket.

2) Louis perduct diversification. 3) Jerade & teriff barriers on Indian products by economies. Lex - Santary phytosantary taxiffs by WHO. 4 ban on certain products as per EV. 4) Lenient Regulationy measures resulting
Comprismed Quality of peroduct.

P Cough Syrups
ex > MDH Masala 5) Low processing Capacity overulting agricultural
2 perishable item wastedness losing huge
item items and a second statements of the second statements of the second seco jood items & revenue. 6) Insignificalit Research & Development (R&D) = · India invest only 0.2% of GDP in its R2D, which is much lower to big economies. Despite all the challenges and opportunities, Indian government enhancing its export with various scheme and incentives like Also Policies like Act East Policy further strengthing India's tie with South-earter Asia economy. Recent CEPA with Mawitins, UAE etc providing boost to India's diveringication resulting new

Highest Enports in recent years.