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(All Mining Solutions)

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IIT(BHU) ,VARANASI STUDENT'S NOTES

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	Advantages	Disadvantages	Limitations
Wooden Prop	Light in weight Easily installed Give indication before failure Easy to handle and low maintenance Cheap and transport easily	Cannot be used in watery condition Less load bearing capacity Deteriorate with time	Cannot be set on loose floor Interfering transportation
Bar	Light in weight Easily installed Do not Interfere transportation spread load of roof over a larger area	They rot with time	Cannot be used when roof is arched
Cog and Chock	Cover and support large area Cheap and easy to install	Interfere and restrict transportation	Cannot be used, where floor is loose or in pooper position
Steel prop	Greater load bearing capacity Incombustible	Heavy in weight Cannot be modified at face	
Friction props	They can be bear fairly heavy loads	Costly	Setting and withdraw of prop need much time
Hydraulic prop	Capable of withstanding heavily load	Costlier Heavy and difficult to carry	Cost-factor
Rock Bolt		Cannot give indication before failure	