Green Innovation Practices and Its Impacts on Environmental and Organizational Performance

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This study aims to investigate the impact of stakeholders’ views on the practices of green innovation (GI), consequent effect on environmental and organizational performance (OP), and moderating influence of innovation orientation. A quantitative method was employed for the sample size of 515 responses. To accumulate the data from the respondents, convenient random sampling was used. Data were collected from manufacturing and services firms through a field survey by using a closed-ended questionnaire based in the Punjab province of Pakistan. The analysis was done using the structural equation model of the partial least square analysis method. Our findings proved a positive and significant link between stakeholders’ views on GI practices. A significant association has been found between GI practices and environmental and OP. The moderating effect was found to be negative but statistically significant. This research offers numerous contributions and provides decision-making insinuations.

Keywords: innovation orientation, competitor pressure, employees' conduct, green innovation, environmental performance, organizational performance

INTRODUCTION

Resource limitations and environmental concerns have made sustainable operations of assets and environmental pollution one of the major global issues. The economy's overall development may not go “hand in hand” with the reduction of pollution and sustainable management of resources (Wang and Song, 2014). Building a sense of balance among high resource consumption and development of economy relics is a constant challenge that forces organizations to run-through eco-friendly professional deeds having high economic worth (Chan et al., 2012). Many organizations are forced to adopt activities that generate and increase economic value (Porter and Kramer, 2019). The excessive use of non-renewable resources prompted by speedy economic development has hurt the atmosphere and elevated various environmental worries (Atlin and Gibson, 2017). To preserve energy and lessen emissions of carbon, numerous countries have established agencies and regulations for environmental sustainability and its protections; examples comprise limitations on “chlorofluorocarbons, the sustainable development announcements of the Johannesburg world summit,” and limits on the usage of few hazardous materials “electrical and electronic equipment requirements, the European Union's Restriction of Hazardous Substances Directive” (Weng et al., 2015, p. 4998). Such impositions of rule and regulations have drawn the attention of environmental supervisors (Zhu and Sarkis, 2004; Claver et al., 2007); they also have the same outcome in
varying the management and competition practices between the organizations (Feng and Chen, 2018). To adhere to the new eco-friendly regulations, to have a positive branding image (Chen, 2008a; Hillestad et al., 2010), to improve their firms’ performance and to have a competitive advantage (Claver et al., 2007; Rusinko, 2007), organizations have had to accept eco-friendly practices (Afridi et al., 2020).

Numerous investigations examined factors altering green innovations (GI) practices, such as environmental regulations, ethics, legal systems, and supply chain (Feng and Chen, 2018; Gao et al., 2018; El-Kassar and Singh, 2019; Seman et al., 2019). Studies have also examined an increase in awareness, the general public, and stakeholder pressure linked to green environmental issues (Foo, 2018). Moreover, literature provides evidence of optimized pressure from society, customers, and government bodies to practice GI. However, the literature lacks findings on the relationship of stakeholders’ pressure [competitor’s pressure, government pressure, and employee conduct (EC)] about GI practices. The manufacturing sector faces higher stakeholder pressure due to possibly the highest waste-producing sector (Chen, 2008b; Chang, 2011). The single industry was studied for GI practices (Cordano et al., 2010; Lin and Ho, 2011). This study fills the gap in investigating these constructs in the manufacturing and service industries to enrich existing GI practices and stakeholder pressure literature. Moreover, stakeholder pressure (customer) was examined for GI in third party logistic firms (Chu et al., 2019), as well as in express companies (Zhang et al., 2020), and in manufacturing firms (Song et al., 2020). Those three studies were conducted in China’s context, which highlights the issue of conducting and focusing on the stakeholder pressure in the manufacturing and service industries of Pakistan being a developing economy in the initial stages of GI practices adoption (Shahzad M. et al., 2020).

“Go-green” is an initiative mainly employed by firms to deal with eco-friendly problems. Approaches to attain green abilities and emerging eco-friendly practices have focused on attention and discussion in the management sciences’ discipline over the years (Ullah, 2017). To ease the acceptance of GI, firms must consider the significant factors and precursors in their business entities (Arifi et al., 2018). These comprise apprehensions of consumers (Zhu et al., 2017), preferences of professionals and owners (Huang et al., 2009), competency of suppliers and partners (Chiou et al., 2011), government regulating authorities and their regulations (Kammerer, 2009), and the environmental, technological, and organizational factors of GI practices (Lin and Ho, 2011). Green technologies consist of GI practices (e.g., green product, process, managerial, and marketing innovation) and the execution of green human resource management practices (e.g., green training and development, administrative support and culture, recruitment and selection, compensation, and benefits). GI is a significant strategic enabler to acquire justifiable development, as it practices energy-saving, environment-protecting, waste-recycling, and pollution-preventing methods (Albort-Morant et al., 2018). Furthermore, GI can be divided into green product, green marketing, green processes, and green management that are intended for eco-friendly environment, decreasing consumption of energy and increasing efficient use of the resource, control over pollution emission, and waste recycling, improving the performance of the organization and providing the pollution-free environment to society at large scale (Seman et al., 2019).

Previous studies have witnessed some proofs of the impacts of numerous drivers such as corporate environmental ethics (El-Kassar and Singh, 2019), environmental regulations (Feng and Chen, 2018), the legal system (Gao et al., 2018), and green supply chain management practices (Seman et al., 2019) on GI practices. To date, some systematic and comprehensive investigations of the precursors and factors of GI have been performed. Foo (2018) proposed that the increase in awareness and pressure from the stakeholders and the general public have necessitated organizations to be more transparent in facing and handling green environmental issues of their supply base execution. Hence, it is critical to focus on stakeholders’ views in an organization on establishing and sustaining GI abilities and practices. Then executives of organizations are involved in examining the essential factors necessary for creating GI practices. Are there pressures from established institutions’ regulations and competitor’s critical factors of GI? How should firms have dealt with the concerns of both internal and external stakeholders?

Furthermore, previous studies have concentrated on the manufacturing sector as it is one of the most critical waste producers that upset the balance of an environment. With rising trepidations on global pollution, this industry is facing increasing pressures from customers, society, and governing agencies to save energy, resources, protect the eco-friendly environment and maintain its sustainability (Chen, 2008b; Chang, 2011) or on a single industry (e.g., Cordano et al., 2010; Lin and Ho, 2011). It would be beneficial to offer an all-purpose model to investigate issues about GI for both the service and manufacturing firms. Therefore, in this study, we borrowed help from the “stakeholder theory” (Freeman, 2010) to aid in our investigation methodology. This theory has been utilized to get a comprehensive view of a particular organization to examine stakeholders’ influence (participants) on GI practices. To answer the stakeholders’ pressure, organizations should focus on an overall strategic plan that involves and satisfies both internal and external stakeholder groups (Bryson, 2018).

**REVIEW OF LITERATURE**

**Stakeholder View (SV)**

The word “stakeholders” was initially used by the “Stanford Research Institute” in 1963 and was defined as “those groups without whose support the organization would cease to exist” (Friedman and Miles, 2006). While this concept was first brought into a “strategic discipline” in 1984 by Freeman (1984), stakeholders were not only separate from shareholders but also involved in the decision-making process (Donaldson and Preston, 1995; Mitchell et al., 1997). In an academic view, the “stakeholder theory” holds a unique perspective for the organizations and offers a diverse description of a firm’s structure and everyday actions (Sulkowski et al., 2018). The stakeholder
theory, founded on four indispensable grounds (Jones and Wicks, 1999), first suggests that organizations have associations with several procedures, all of which are upset or pretentious by their results (Laplume et al., 2008; Co and Barro, 2009). Second, such links are recognized in the firms’ procedures and results and their stakeholders’ firms’ views.

Third, stakeholders’ inherent value, and comforts cannot be permitted to override the safeties of others (Clarkson, 1995; Co and Barro, 2009). Fourth, the decision making of the organizations is the central point (Alrowwad et al., 2017). Stakeholder theory has been accepted for numerous ecological scholarships in that it has been active in persuading both company environmental sensitivity (Crane and Livesey, 2017) and environmental policies (Salem et al., 2018). Although the outcomes have been mixed, and the stakeholders’ views on ecological management have been unpredictable. For example, Jaaffar and Amran (2017) found that the organizations’ board of directors is involved in deciding eco-friendly strategies and policies while small business entities and proprietors decide GI (Huang et al., 2009). In addition, in manufacturing organizations in Germany, stakeholders have affected the firms’ selections concerning ecological response forms (Murillo-Luna et al., 2008), and they were confidently related with unproved GI (Wagner, 2007); in contrast, the association among eco-friendly policies and stakeholders’ administration was not perfect in Belgian organizations (Buysses and Verbeke, 2003). The review paper by Seman et al. (2018) concludes that the stakeholders’ views have a more considerable influence on GI practices.

**Green Innovation (GI)**

Works of GI are commonly divided into two types. The first describes GI as a firm’s abilities (Gluch et al., 2009), whereas the second defines GI as an organization’s environmental practices (Lin and Ho, 2008; Ho et al., 2009). When it comes to organizational practices, GI is described as “the hardware or software innovation related to green products or processes” (Song and Yu, 2018); it is proposed that GI comprises management practices and technological advancements that expand the environmental and organizational performance (OP) and provide a competitive edge to the firms (Rennings, 2000). Other researchers recommend that GI consists of unique or altered systems, processes, products, and practices that provide an advantage to the environment and subsidize firms’ sustainability (Xie et al., 2019).

A recent study expresses GI as “the new or modified products and processes, including technology, managerial, and organizational innovations, which helps to sustain the surrounding environment” (Ilvitskaya and Prihodko, 2018). Moreover, GI may refer to “a creative initiative that reduces negative environmental impacts or that yields environmental benefits as it creates value in the market” (Chen et al., 2006). GI is divided into two kinds, such as “green product innovations” (providing new green products to consumers) and “green process inventions” or “greening” business procedures (Tang et al., 2018). Furthermore, due to the growing customer-centered apprehensions concerning environmental protection, ecological management has become a critical part of many firms’ strategic policies and tactical plans (Chiu et al., 2011; Khan et al., 2019).

Regulations related to an environment may lead toward a “win-win situation” (Chan et al., 2018) since they can perform dual tasks, increase profits and lessen pollution; It is proposed that GI should be categorized distinctively from other innovative maneuvers since it harvests not only a spillover consequence for exploration and expansion efforts but also optimistic external possessions such as enlargements in the atmosphere (Kammerer, 2009). A study by Feng et al. (2018) on the Chinese industry’s manufacturing firms has shown that internal and external environmental orientation is significantly associated with GI practices. The utilization of GI practices inside and outside the firms’ restrictions are vital for impacting both economic and ecological performance goals (Khan and Qianli, 2017; Saeed et al., 2018). Moreover, Lee et al. (2018) found that stakeholders’ pressure, organizational support, and societal expectations were significant factors for the motivation to adopt GI practices and corporate environmental responsibility (Shahzad F. et al., 2020). Moreover, the study of Fernando et al. (2019) showed that GI, regulation, supplier intervention, and technology have a strong influence on sustainable performance mediated by service innovation capabilities. The study by Famiyeh et al. (2018) also supported eco-friendly practices, showing that environmental management practices have direct and indirect positive effects on environmental performance. Xie et al. (2019) used green product innovation as a moderator for the green process innovation and OP, but the study did not find the supported results.

**PROPOSED FRAMEWORK AND HYPOTHESIS DEVELOPMENT**

**Proposed Framework**

This study involves the three dimensions of stakeholders’ view (e.g., competitor pressure, government pressure, and employees conduct) as independent variables. Organizational and environmental performance are used as dependent variables. Moreover, GI practices (e.g., green product and green process) are used as mediators, and the moderating role is performed by innovation orientation (IO). A total of six hypotheses have been suggested and showed in Figure 1.

**Hypothesis Development**

We followed “Freeman’s stakeholder framework” (Freeman, 2010). We used three stakeholders’ dimensions to view the government’s and competitors’ pressure as external and employees’ conduct as internal stakeholders. However, there are various other dimensions, such as customer, community, and supplier pressure. This study also treats both aspects of stakeholder’s views as factors that are employing pressure on the organizations and motivating the firms to improve environmental practices. Identifying eco-friendly business practices are becoming critical elements as organizations are confronted with “both internal and external forces/pressures from environmental agencies, governmental regulations, stakeholders, competitors, customers and employees”
Singh and El-Kassar (2018) conclude that the stakeholders’ view (e.g., pressure by the government, competitors, employees, customers, society, and suppliers, respectively) positively influences the GI practices.

**Competitors Pressure (CP)**

Organizations generally act in response to the movements of rivals and the operating industry. When competitors accept or implement new eco-friendly practices, organizations in the same sector will feel overstretched to reconfigure the structures and policies (Durand and Georgallis, 2018). In short, organizations need to be attentive to their competitor’s products/services, actions, and norms and regulations of the industry they are part of so that their innovation abilities are similar to others in the industry. For instance, organizations must be conscious of new energy-saving, waste-recycling, pollution-preventing methods, and changes in processes used for the implementation and paraphernalia that are accessible in the market. They are required to have an eye on the methods their competitors have adopted to lessen energy costs while restructuring process and reconfiguring their manufacturing facilities to overtake/perform equivalent to/better than their rivals. Thus, to endure competitive spots, organizations may emulate competitors’ environmental practices and actions, especially the front-runners in their industries (Abrahamson and Rosenkopf, 1993). Singh and El-Kassar (2018) found a positive relationship between stakeholders view and GI practices. Furthermore, a study on 442 Chinese firms also confirmed that competitors’ pressure provides organizations with more significant incentives to adopt GI practices (Cai and Li, 2018). In another study (Yu, 2019), the results revealed that formal and informal environmental regulation and pressures have strong influences on food-making companies’ GI activities. Thus, hypothesis 1 is established:  

\[ \text{H}_1: \text{Competitor’s pressure has a significant impact on GI practices.} \]

**Governmental Pressures (GP)**

Various scholarships have explored the association among regulatory rules and environmental practices and have proposed that governmental pressures (GP) is a crucial factor of external stakeholders (He et al., 2018). Variations in regulations and implementation of these changes by the government disturb organizational activities concerning environmental management (Yakubu, 2017). In particular, to compete internationally, organizations must keep an eye on both international and national laws to overcome any obstacle. The consistency of the rules and organizations’ insights into the severity of the regulations will define the degree to which firms essentially execute environmental prevention practices (Bernauer et al., 2007). The appropriate governance mechanisms and structural design can successfully manage and supervise the association between nature and mankind (Famiyeh et al., 2018). Moreover, Tirabeni et al. (2019) showed that organizations are reevaluating their manufacturing processes in response to
societal and governmental” pressures concerned with eco-friendly well-being. Furthermore, the degree to which the government enforces/supports the regulations has a substantial influence on the firms’ environmental strategies (Lindell and Karagözoglu, 2001; Zeng et al., 2011), creating a significant task to examine. A study by Zhang et al. (2019) on 224 firms of the manufacturing industry found that institutional pressure significantly affects green supply chain management practices and business performance. In a study by Huang et al. (2016), results show that customer and regulatory pressure encourage green response and increase performance. A survey by Fernando and Wah (2017), based on Malaysian firms, concluded that compliance with government regulations impacts environmental performance. Hence, we suggest hypothesis 2:

H2: Governmental pressure has a significant impact on GI practices.

Employee Conduct (EC)

Top management identifies the significance of environmental prevention and their responsibility to impact strategic planning and long-term goals related to environmental management. Steady appreciation and consideration of environmental drivers by the management should produce improved innovation and overall performance. Additionally, an organization’s future direction of ecological practices/activities mostly depends on the top management’s commitment toward the utilization of green practices and whether the executives can motivate employees to actively contribute to environmental management (Tang et al., 2018). The same circumstances exist between employees. In a business, workforces are often the originators of environmental practices (Daily and Huang, 2001). Organizations will strain to achieve ecological goals if the personnel/workforce do not contribute to their policies and strategies (Zhu et al., 2008). Thus, firms must arrange and offer workshops and training on environmental concerns, include suitable employees, and improve their obligation to eco-friendly practices (Reinhardt, 1999). Yen and Yen (2012) investigate the inside drivers motivating organizations to utilize green activities such as the top management commitment and relationships with vendors. The authors found a direct association between the proposed constructs of the study.

Furthermore, Gholami et al. (2013) examined senior managers’ perceptions about situations and the significances of using green practices. They presented that green technology acceptance, top management attitude, and apprehension for potential concerns are significantly interrelated. Moreover, they found an optimistic connection between the adoption of green practices and overall performance. The results from Cao and Chen (2018) study show that when the top management’s awareness increases, the association between coercive policies and GI strategy becomes stronger. Soewarno et al. (2019) propose that executives are responsible for making GI strategies that have to be implemented by employees. Such innovation strategies positively influence GI if applied appropriately. Thus, we propose hypothesis 3:

H3: EC has a significant impact on GI practices.

Environmental Performance

In this study, we have assessed the firms’ overall performance into two types: environmental and organizational. Environmental performance (EP) can be defined as “the environmental impact of a company’s activities on the natural surroundings” (Klassen and Whybark, 1999). OP includes numerous elements, both financial and non-financial (e.g., market share, reputation, sales volume, stakeholders satisfaction, etc.) (Venkatraman and Ramanujam, 1986).

Environmental performance encompasses the inclusion of eco-friendly ingredients in products, less pollution, reduced carbon emissions and waste at the source, advancements in energy-savings, efficiency in utilization of resources, reduction in the use of environmentally hazardous elements, etc. (Zhu et al., 2010). Related to long-term ecological impacts, an organization’s regulatory methods, processes, practices including pollution protection, as well as resource utilization and waste lessening, are more fruitful than “end-of-pipeline solutions” (Sarkis and Cordeiro, 2001; De Giovanni, 2012; Khan et al., 2019). Previous scholarships proposed that advancement in the production process and efficiency will upsurge opportunities to advance environmental performance (Montabon et al., 2007). Along with these, a study by Seman et al. (2019) on the 123-manufacturing industry showed that GI practices significantly improve environmental performance. Hence, we established hypothesis 4:

H4: GI practices have a significant impact on environmental performance.

Organizational Performance

Organizational performance can be assessed both “financially and non-financially” (Gounaris et al., 2003). To control environmental costs, organizations raise their productivity by adopting GI practices (de Burgos-Jiménez et al., 2013). Similarly, organizations can establish new markets and upsurge their market share by employing and adopting environmental activities and practices (Berry and Rondinelli, 1998; Berrone et al., 2017). A long-term organization goal, advancement into non-monetary performance can be demonstrated by enlarged customer loyalty, newly joined customers, and an improved image and reputation of an organization (Blazevic and Lieve, 2004). Chen (2008a) suggested that innovators in GI will gain the “first-mover advantage,” which indicates an improved firm image, higher product prices, competitive advantages, and new market opportunities. A study by Tang et al. (2018) shows that GI practices have positive effects on OP. Moreover, a study by Zhang and Walton (2017) on 83 New Zealand firms concludes that GI has a positive influence on the firms’ performance. Thus, hypothesis 5 is constructed:

Hypothesis 5: GI practices have a significant impact on OP.

This study used IO as a moderator. It tested its effect on the association among EC and GI practices because the variable is allied with organizations’ policy settings and culture, which primarily correlate to the firm’s employees.
Innovation Orientation

Innovation orientation is a strategic orientation that disturbs firms' innovation practices and functions as a guiding standard for firms' strategy and enactment to increase an organization's innovativeness (Chen et al., 2011; Stock and Zacharias, 2011). It defines a firm's "openness to new ideas, technologies, skills, resources, and administrative systems" (Zhou et al., 2005) and a knowledge-sharing system that unites a learning viewpoint, strategic guidelines, and trans-functional acclimation within a firm to encourage innovation (Siguaw et al., 2006). IO is a crucial factor in overwhelming competitors and advancing an organization's capability to effectively execute new products, services, systems, and processes (Oke, 2007). Organizations with a new innovative environment and management will motivate and encourage employees to commence innovative conduct (Ramus, 2018). Thus, we assume that an IO can advance the association between EC and GI practices, as exemplified in hypothesis 6:

H6: IO significantly moderates EC on GI practices.

RESEARCH METHODOLOGY

Instrument

Based on a review of the literature, we considered a structured closed-ended questionnaire with 7 s. The first section includes the demographical information of respondents. The second to seventh sections include the measurement items related to specific construct's competitors' pressure, governmental pressure; EC; IO; GI practices; environmental performance, and OP. To ensure the validity of the questionnaire and data, two pilot studies were conducted. After that step, we adopted a field survey on a large scale. All of the construct's items were measured using "five-point Likert-type scales in which 1 = strongly disagree, 5 = strongly agree."

Data Collection and Sample

Data were collected from January 2019 to July 2019 from the manufacturing and services firms of Punjab province in Pakistan that have adopted GI practices. Convenient random sampling techniques were adopted for selecting areas of the country. Most of the organizations are based in Lahore, Faisalabad, Sheikhupura, Gujranwala, and Multan. Data collected by field surveys targeted the population, including the executives of different departments such as marketing, human resource, productions, operations, and other functional managers. After the pilot study's conduction, 550 questionnaires were distributed among the respondents, out of which 520 were filled and returned. This resulted in a response rate of 94.54% from a random sampling method for data collection. Five forms were removed from the analysis due to incomplete information, and the remaining 515 were used in the analysis.

Measures of the Constructs

This study adopted a quantitative research technique and a closed-ended questionnaire used for data collection. All of the variables were assessed with multiple-item scales. In total, 46 question items, mainly related to the constructs, were used. Competitor pressure was appraised by acclimating four items from preceding studies (Christmann, 2004). GP were measured by four items scale adapted from the studies of Zeng et al. (2011) and Qi et al. (2010). EC was measured by four items scale taken from Lindell and Karamoagly (2001) studies and López-Gamero et al. (2008). IO was measured by seven items scale gained from the studies of Hurley and Hult (1998); Zhou et al. (2005), and Siguaw et al. (2006). In this study, GI practices were measured by nine items scale taken from the study of Chioiu et al. (2011). OP measured by eight items scale adapted from the study of Blazevic and Lieveen (2004) and Avlonitis et al. (2001). Moreover, the environmental performance was measured by six items scale adapted from Lin (2013) studies.

Common Method Bias

We used Harman’s single factor test to check the issue of common method bias in the data. As per Harman's methodology, if all the factors merged into factor analysis, and the first factor explains more than 50% of the data variance, there is an issue of common method bias. Therefore, we used the dimension reduction method in SPSS and merged all the factors into one factor using a rotation matrix. The first factor's results explained 38.23% of the total variance, which is less than 50% of the variance. Thus, common method bias is not considered as the problem in this study.

DATA ANALYSIS AND RESULTS

This study used the partial least squares (PLS) procedure of structural equation modeling using Smart-PLS Version 3.0 to assess the research model. This procedure was designated due to the investigative nature of the study (Hair et al., 2011). As recommended by Hair et al. (2013), this research applied a two-step method for statistical analysis. In the first step, the measurement model was analyzed. In the second step, the structural relationships among the latent constructs were assessed. This tactic was used to conclude both the reliability and validity of the theoretical variables before the model's structural relationship was tested. Furthermore, Smart-PLS's main reason includes the extensive popularity and acceptability of its application (Hair et al., 2012). It also includes comprehensive information about the variables (Hair et al., 2011).

Sample Demographics

A sample of 515 employees represents the telecommunication sector population in China, and demographical representation was shown in Table 1. 392 (76.1%) respondents are male, and the rest, 123 (23.9%) respondents are female. Also, 246 (47.8%) respondents fall in the range of 31–40 years, followed by 219 (42.5%) in 20–30 years. From the education perspective, 291 (56.5%) respondents have a master's degree, followed by 216 (41.9%) with a graduation degree, and the remaining (1.6%) with higher than master degree education, respectively. Furthermore, 218 (42.3%) respondents have a job in the sales and marketing department, 209 (40.6%) selected “other options,” apart from...
the HR and finance department. As for work experience, 260 (50.5%) respondents have 5–10 years of experience, followed by 127 (24.7%) with 1–5 years and the rest (24.3%) with 11–15 years of experience, respectively. As mentioned in the table below, 168 (32.6%) respondents have a monthly income of more than 60,000 rupees. Out of 515 respondents, 333 (64.7%) are married, and the rest, 182 (35.3%), are single.

### Measurement of Model

The partial least square method was used to measure the reliability and validity of the respective constructs. The constructs’ internal reliability was evaluated by “Cronbach’s Alpha (CA), and Composite reliability.” According to Gefen et al. (2000) and Hair et al. (2013), CA should be greater than 0.7. Moreover, Hinton (2014) categorized four ranges of CA. First, if the value falls in the range of 0.9, it falls in the area of excellent reliability. Second, if it falls between 0.7 and 0.9, it will have high reliability. Third, if it is in the range of 0.5 to 0.7, it will fall into the moderate area. Fourth, if it is <0.5, it will be categorized as low. Table 2 shows that all of the variables have values (e.g., CP = 0.851; GP = 0.829; EC = 0.851; IO = 0.764; GIP = 0.829; EP = 0.799; and OP = 0.892) which fall into the range of high reliability. Furthermore, to evaluate the convergent validity, the average variance extracted (AVE) is used. Fornell and Larcker (1981) and Bagozzi and Yi (1988) propose that AVE’s value should be greater than 0.5. As per results found in the table, all the values of constructs (0.691; 0.654; 0.627; 0.585; 0.598; 0.651; and 0.650) satisfied the rule of thumb. Chin (1998) recommended that loadings have a value greater than 0.5 because it indicates the constructs’ reliability. The item’s value can be between 0.4 and 0.7, as the value is also used by Umrani et al. (2018). Hence, all the loading values are found in the range of 0.477 to 0.894. Hence, it is proved that all the values satisfied the rule of thumb established by the scholars.

Two methods were used to evaluate the discriminant validity (e.g., used to measure either construct used in the study well defined). Each construct is pure and not any multicollinearity involved. The dependent variable was evaluated by considering the correlations of the variables. First, it was ensured that the cross-loadings of indicators should be greater than any other opposing constructs (Hair et al., 2012). Second, according to the criterion of Anderson and Gerbing (1988) and Fornell and Larcker (1981), the “square root of AVE for each construct should exceed the inter-correlations of the construct with other model constructs” (Table 3). Hence, both methods ensured the satisfaction of the results and validity. All the results found in the study meet satisfactory status.

Another essential technique of partial least square to assess the model’s validity and multicollinearity includes the Heterotrait–Monotrait ratio. According to Henseler et al. (2015), HTMT is the ratio of trait correlation to within correlation. The belief that if the HTMT value is going to increase >0.9, it will lack the discriminant validity, as mentioned in Table 4. Furthermore, it is considered one of the most crucial techniques to measure the multicollinearity.

### Structural Model

The table given below contains the values of the coefficient of determination. It shows the percentage change in the dependent variable incurred because of independent variables. Hair et al. (2010) defined it as the proportion determined by independent variables. In other words, it tells how much change in dependent variable incurs because of the independent variable. Table 5 shows three models. In the path – 1: R² of GI practice, have a positive coefficient 0.716, and adjusted R² 0.713. It entails that 71.6% of changes in GIP incur because of all the independent variables. Path – 2 exhibited a 31.7% change in EP. While path – 3 showed a 31.6% change in OP incurred because of all the independent variables. According to Hair et al. (2011) and Henseler et al. (2015), three values of the coefficient of determination, 0.75, 0.5, or 0.25, which are called substantial, moderate, or weak, respectively. If the co-efficient of determination falls within the range of 0.75 or greater, it will become significant. If it is between 0.25 and 0.75, it will become

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**Table 1**: Demographical information.

| Demographical Information                      | Frequency | %  |
|-----------------------------------------------|-----------|---|
| **Gender**                                    |           |   |
| Male                                          | 392       | 76.1|
| Female                                        | 123       | 23.9|
| Total                                         | 515       | 100|
| **Age**                                       |           |   |
| 20–30                                         | 219       | 42.5|
| 31–40                                         | 246       | 47.8|
| 41–50                                         | 50        | 9.7 |
| Total                                         | 515       | 100|
| **Education**                                 |           |   |
| Graduation                                    | 216       | 41.9|
| Master’s Degree                               | 291       | 56.5|
| Higher Than Master’s Degree                   | 8         | 1.6 |
| Total                                         | 515       | 100|
| **Department**                                |           |   |
| HR                                            | 35        | 6.8 |
| Financial                                     | 8         | 1.6 |
| Sales and Marketing                           | 218       | 42.3|
| Other                                         | 209       | 40.6|
| Total                                         | 515       | 100|
| **Work Experience**                           |           |   |
| 1–5 years                                     | 127       | 24.7|
| 5–10 Years                                    | 260       | 50.5|
| 11–15 Years                                   | 125       | 24.3|
| Total                                         | 515       | 100|
| **Salary (Rupees)**                           |           |   |
| Below 20,000                                  | 11        | 2.1 |
| 40,000–60,000                                 | 159       | 30.9|
| Above 60,000                                  | 168       | 32.6|
| Total                                         | 515       | 100|
| **Marital Status**                            |           |   |
| Married                                       | 333       | 64.7|
| Single                                        | 182       | 35.3|
| Total                                         | 515       | 100|

*Bold values are the highest percentage values.*
| Constructs                              | Items          | Loadings | CA    | CR    | AVE    |
|----------------------------------------|----------------|----------|-------|-------|--------|
| Competitor Pressure                    |                |          |       |       |        |
| Industry initiatives/associations advocate the simple mentation of worldwide environmental standards by firms. | CP1            | 0.810    |       |       |        |
| Our major competitors set worldwide environmental standards for their operations and products. | CP2            | 0.829    |       |       |        |
| Our major competitors implement environmental strategies on a worldwide basis. | CP3            | 0.857    |       |       |        |
| Environmental strategies that we implement in one country affect considerably our environmental reputation with competitors in other countries. | CP4            | 0.828    |       |       |        |
| Government Pressure                    |                |          | 0.829 | 0.882 | 0.654  |
| Regulation for green construction is stringent. | GP1            | 0.894    |       |       |        |
| Future regulation for green construction is predictable. | GP2            | 0.699    |       |       |        |
| Regulations for green constructions have considerable impact on business entities. | GP3            | 0.798    |       |       |        |
| Regulations for green constructions effectively deal with issue regarding greening of construction process. | GP4            | 0.832    |       |       |        |
| Employees Conduct                      |                |          | 0.851 | 0.894 | 0.627  |
| The top management’s behavior inspired the acceptance of change by all the other organization members. | EP1            | 0.810    |       |       |        |
| The employees were able to take initiatives and decisions on their own thanks to the encouragement of authority delegation. | EP2            | 0.833    |       |       |        |
| The employees were aware of the progress made in their work are as new knowledge, new practice development. | EP3            | 0.803    |       |       |        |
| All the organization members knew and shared the firm's mission and objectives. | EP4            | 0.746    |       |       |        |
| Innovation orientation                 |                |          | 0.764 | 0.848 | 0.585  |
| Technical innovation, based on research results, is readily accepted. | IO1            | 0.737    |       |       |        |
| Management actively seeks innovative ideas. | IO2            | 0.660    |       |       |        |
| Innovation is readily accepted in program/project management. | IO3            | 0.823    |       |       |        |
| People are penalized for new ideas that don’t work. | IO4            | 0.826    |       |       |        |
| Our firm pays close attention to innovation. | IO5            | 0.762    |       |       |        |
| Our firm emphasizes the need for innovation for development. | IO6            | 0.742    |       |       |        |
| Our firm promotes the need for development and utilization of new resources. | IO7            | 0.822    |       |       |        |
| Green Innovation Practices             |                |          |       |       |        |
| Lower consumption of e.g., water, electricity, gas, and petrol during production/use/disposal. | GIP1           | 0.809    | 0.829 | 0.881 | 0.598  |
| Recycle, reuse, and remanufacture materials or parts. | GIP2           | 0.863    |       |       |        |
| Use of cleaner or renewable technology to make savings (such as energy, water, waste.) | GIP3           | 0.698    |       |       |        |
| Redesign of production and operation processes to improve environmental efficiency. | GIP4           | 0.666    |       |       |        |
| Redesigning and improving products or services to meet new environmental criteria or directives. | GIP5           | 0.813    |       |       |        |
| The company uses less or non-polluting/toxic materials that are environmentally friendly. | GIP6           | 0.852    |       |       |        |
| The Company uses materials that are easy to recycle, reuses, and decompose. | GIP7           | 0.782    |       |       |        |
| The Company recovers company's end-of-life products and recycling. | GIP8           | 0.721    |       |       |        |
| The company uses eco-labeling. | GIP9           | 0.790    |       |       |        |
| Organizational Performance             |                |          | 0.892 | 0.918 | 0.650  |
| The use of green innovation increased your sales directly (form environmental friendly products). | OP1            | 0.800    |       |       |        |
| The use of green product increased your overall sales (from other types of products as well). | OP2            | 0.846    |       |       |        |
| The use of green innovation preserved your current customers. | OP3            | 0.826    |       |       |        |
| The use of green innovation attracted new customers. | OP4            | 0.737    |       |       |        |
| The use of green innovation increased your market share. | OP5            | 0.832    |       |       |        |
| The use of green innovation increased your overall profitability. | OP6            | 0.791    |       |       |        |
| The use of green innovation enhanced the financial position of the firm. | OP7            | 0.812    |       |       |        |
| The use of green innovation enhanced the firm's mental image among customers. | OP8            | 0.784    |       |       |        |
| Environmental Performance              |                |          | 0.799 | 0.877 | 0.651  |
| Reduction of air emission.             | EP1            | 0.890    |       |       |        |
| Reduction of hazardous waste/scrap.    | EP2            | 0.889    |       |       |        |
| Reduction in consumption of gasoline/fuel. | EP3          | 0.891    |       |       |        |
| Partnership with green organizations and suppliers. | EP4            | 0.852    |       |       |        |
| Improvement of environmental compliance. | EP5            | 0.799    |       |       |        |
| Use of environmentally friendly material. | EP6            | 0.762    |       |       |        |

CA, Cronbach's Alpha; CR, Composite Reliability; AVE, Average Variance Extracted.
The results indicate that governmental pressure positively and significantly impacts GI practices with a positive coefficient value of 0.123, \( t \)-value 4.598 > 2, and \( p \)-value 0.000 < 0.05. The second direct hypothesis \( H_2 \), won the vote of support and was consistent with the results from a previous study of Sezen and Çankaya (2013) and Fernando and Wah (2017). Our third hypothesis, \( H_3 \), is associated with EC and GI practices. The output illustrates that EC positively influenced GI practices with coefficient value of 0.185, \( t \)-value 4.368 > 2, and \( p \)-value 0.000 < 0.05. Hypothesis results were found consistent with the study of Yen and Yen (2012), Gholami et al. (2013), and Soewarno et al. (2019).

Furthermore, we discussed the \( H_4 \) the direct effect of GI practices on OP. The findings show that GI practices positively and significantly affect OP with a positive coefficient value of 0.563, \( t \)-value 14.653 > 2, and \( p \)-value 0.000 < 0.05. Hypothesis results were consistent with the previous study of Seman et al. (2019). Besides, we tested the direct effect of GI practices on environmental performance. We found that GI practices positively related to environmental performance with a positive coefficient of 0.562, \( t \)-value 16.15 > 2, and \( p \)-value 0.000 < 0.05. The hypothesis was supported and consistent with the studies of Zhang and Walton (2017) and Tang et al. (2018). Finally, the sixth hypothesis \( H_6 \) was constructed for moderation interaction effects, and its results were found statistically significant with a negative coefficient value of \(-0.063\), \( t \)-value 3.137 > 2, and \( p \)-value 0.000 < 0.05. In conclusion, the results of all direct hypotheses were found with a positive path coefficient and statistically significant with \( t \)-value > 2 and \( p \)-value < 0.05 and the interaction graph presented in Figure 3. However, the moderation hypothesis was found statistically significant, with a negative coefficient value. Therefore, it is proven that all the variables used in the study affect GI practices and the firms’ overall performance.

**Analysis and Discussion**

The competitors’ pressure, governmental pressure, EC, and GI practices are concentrated on environmental and OP. The manufacturing and servicing industries of the country were examined, which account for greater than 70% contribution to the GDP of the country. A cohesive framework was developed under the investigation of theory, and it stated that the stakeholders’ dimensions have positive and significant effects on the GI practice, and which, in turn, has positive and significant impacts on environmental and OP.

In the study, six hypotheses were constructed. Among them, five were a direct hypothesis, and one was proposed for the moderation effect. As exhibited in Table 6 and Figure 2, the first direct hypothesis \( H_1 \) related to the influence of competitor pressure on GI practices. The findings show that competitive pressure positively and significantly impacts GI practices with a coefficient value of 0.271, \( t \)-value 5.543 > 2, and \( p \)-value 0.000 < 0.05. The hypothesis results were found consistent with the study of El-Kassar and Singh (2019). Moreover, we tested \( H_2 \) governmental pressure positively related to GI practices. The results indicate that governmental pressure positively and significantly impacts GI practices with a positive coefficient value of 0.123, \( t \)-value 4.598 > 2, and \( p \)-value 0.000 < 0.05. The second direct hypothesis \( H_2 \), won the vote of support and was consistent with the results from a previous study of Sezen and Çankaya (2013) and Fernando and Wah (2017). Our third hypothesis, \( H_3 \), is associated with EC and GI practices. The output illustrates that EC positively influenced GI practices with coefficient value of 0.185, \( t \)-value 4.368 > 2, and \( p \)-value 0.000 < 0.05. Hypothesis results were found consistent with the study of Yen and Yen (2012), Gholami et al. (2013), and Soewarno et al. (2019).

**Conclusion and Implications**

**Conclusion**

“Go green” has been forcing internationally dynamic organizations to improve their green competencies endlessly, execute GI practices to prevent the environment from degrading further, and advance overall firms’ performance. Therefore, this study aims to identify the key factors affecting on the GI practices and its impact on OP from stakeholders’ perspectives.

**TABLE 3 | Discriminant validity coefficients.**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| CP | 0.831* | | | | | | |
| EC | 0.751 | 0.792* | | | | | |
| EP | 0.606 | 0.462 | 0.807* | | | | |
| GP | 0.50 | 0.493 | 0.42 | 0.809* | | | |
| GIP | 0.777 | 0.705 | 0.563 | 0.544 | 0.773* | | |
| IO | 0.802 | 0.684 | 0.517 | 0.478 | 0.709 | 0.765* | |
| OP | 0.485 | 0.502 | 0.429 | 0.797 | 0.562 | 0.472 | 0.806* |

*Bold values represent the square root of average variance extracted (AVE).

**TABLE 4 | Heterotrait – Monotrait (HTMT) ratio.**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Competitor pressure | | | | | | | |
| Employee conduct | 0.846 | | | | | | |
| Environmental performance | 0.604 | 0.493 | | | | | |
| Governmental pressure | 0.444 | 0.478 | 0.351 | | | | |
| Green Innovation Practices | 0.778 | 0.717 | 0.55 | 0.486 | | | |
| Innovation orientation | 0.667 | 0.65 | 0.424 | 0.379 | 0.75 | | |
| Organizational performance | 0.496 | 0.572 | 0.454 | 0.749 | 0.614 | 0.445 | |

**TABLE 5 | Analysis of R².**

| Path | R square | R square adjusted | Decision |
|---|---|---|---|
| 1. GI practices | 0.716 | 0.719 | Moderate |
| 2. Environmental performance | 0.317 | 0.315 | Moderate |
| 3. Organizational performance | 0.316 | 0.315 | Moderate |

Moderating effect

Hypothesis Relationship Path coefficient S. D t-value p-value Decision

| | Hypothesis Relationship Path coefficient S. D t-value p-value Decision |
|---|---|---|---|
| Direct effect | \( H_1 \) CP \( \rightarrow \) GIP | 0.271 | 0.049 | 5.543 | 0.000** Supported |
| \( H_2 \) CP \( \rightarrow \) GIP | 0.123 | 0.027 | 4.598 | 0.000** Supported |
| \( H_3 \) EC \( \rightarrow \) GIP | 0.185 | 0.042 | 4.368 | 0.000** Supported |
| \( H_4 \) GIP \( \rightarrow \) EP | 0.563 | 0.038 | 14.653 | 0.000** Supported |
| \( H_5 \) GIP \( \rightarrow \) OP | 0.562 | 0.035 | 16.15 | 0.000** Supported |

| Moderating effect | \( H_6 \) IO \( \times \) EC \( \rightarrow \) GIP | -0.063 | 0.02 | 3.137 | 0.002 Supported |

**TABLE 6 | Path coefficients and hypothesis testing.**

*\( p \)-value = 0.05, \( t \)-value = 2.

**Conclusion and Implications**

**Conclusion**

“Go green” has been forcing internationally dynamic organizations to improve their green competencies endlessly, execute GI practices to prevent the environment from degrading further, and advance overall firms’ performance. Therefore, this study aims to identify the key factors affecting on the GI practices and its impact on OP from stakeholders’ perspectives.
From the results, it is concluded that competitive pressure has a positive and significant impact on GI practices (Abrahamson and Rosenkopf, 1993; Cai and Li, 2018; Durand and Georgallis, 2018; Singh and El-Kassar, 2018; Yu, 2019) as well as that governmental pressure has a positive and significant impact on GI practices (Lindell and Karagözoglu, 2001; Bernauer et al., 2007; Zeng et al., 2011; Huang et al., 2016; Fernando and Wah, 2017; Yakubu, 2017; Famiyeh et al., 2018; He et al., 2018; Tirabeni et al., 2019; Zhang et al., 2019). Furthermore, it can be seen from our results that employee's conduct is positively
influenced by GI practices (Reinhart, 1999; Daily and Huang, 2001; Zhu et al., 2008; Yen and Yen, 2012; Gholami et al., 2013; Cao and Chen, 2018; Tang et al., 2018; Soewarno et al., 2019). Also, our results conclude that GI practices have a positive and significant effect on OP (Berry and Rondinelli, 1998; Gounaris et al., 2003; Blazevic and Lievens, 2004; Chen, 2008a; de Burgos-Jíménez et al., 2013; Berrone et al., 2017; Zhang and Walton, 2017; Tang et al., 2018). The findings of the study suggest that GI practices positively related to environmental performance. From the findings, it is also concluded that the moderation effect of IO was found statistically significant but with a negative coefficient value. The study also describes significant implications and suggestions to the managers and policymakers.

**Implications**

The present study delivers numerous researches “contributions and managerial implications.” First, this study presented that GI practices disturb not only EP but also OP. GI should be seen not only as responsive contentment of management requirements but as a pre-emptive exercise to advance a competitive advantage and the firm’s performance (de Burgos-Jíménez et al., 2013). This pragmatic sign proposes that when organizations generously emphasize GI practices, they can promote both “financial and non-financial” performance. Top management executives can play a crucial role in carrying the significance of GI to all stakeholders. Second, both industrial and service organizations were investigated in the model. The data collected from both the sectors/industries showed no difference, and the results were the same. “Go green” is a significant issue for both divisions. GI practices need to be endlessly accepted in the product, process, marketing, management innovation, or all, regardless of industry. Finally, this study showed a statistically significant moderation effect of IO on EC concerning GI practices. However, we propose that the top management or executives accentuate innovation and inventiveness in their firm’s culture. The effort to raise the constituents of innovation is critical to the existence and sustainability of firms.

**LIMITATIONS AND FURTHER RESEARCH**

Although this research study delivers valuable intuitions, some limitations should fuel further investigations. First, the study was conducted in Pakistan, which only included significant areas of the country; small cities were ignored in the research. Second, an executive’s insights into GI practices and consequences are stranded in specific-industry norms. However, to focus on the conclusions’ larger generalizability, we invite scholars to replicate our study but in diverse perspectives and countries. Future studies should include other dimensions of the stakeholders’ view with the mediation of market innovation and management innovation. HR practices can also moderate the relationship between stakeholders’ views and GI practices. Last, the mediation effects need to be explored further.

**DATA AVAILABILITY STATEMENT**

The raw data supporting the conclusions of this article will be made available by the authors, without undue reservation.

**ETHICS STATEMENT**

This study was carried out in accordance with the recommendations of the Ethical Principles of Psychologists and Code of Conduct of the American Psychological Association (APA). All participants gave written consent in accordance with the Declaration of Helsinki. The studies involving human participants were reviewed and approved by the Ethics Committee of the Lahore School of Business, University of Lahore, Pakistan. The patients/participants provided their written informed consent to participate in this study.

**AUTHOR CONTRIBUTIONS**

MK, HW, and DA: the provision of materials (i.e., questionnaires) and principal manuscript writing. MM, FS, and FA: data collection and manuscript revision and proofreading. MK and HW: data analysis plan. FS and FA: data analysis. All authors contributed to definition of research objectives, models, and hypotheses and approved the final version of the manuscript.

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Conflict of Interest: The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

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# ANNEXURE

Descriptive statistics.

| Items  | Mean | Median | Min | Max | SD    | Excess Kurtosis | Skewness |
|--------|------|--------|-----|-----|-------|-----------------|----------|
| OP1    | 3.737| 4      | 1   | 5   | 0.799 | 0.195           | -0.319   |
| OP2    | 4.171| 4      | 2   | 5   | 0.835 | -0.192          | -0.731   |
| OP3    | 4.029| 4      | 2   | 5   | 0.837 | -0.458          | -0.494   |
| OP4    | 4.05 | 4      | 2   | 5   | 0.794 | -0.629          | -0.371   |
| OP5    | 3.775| 4      | 1   | 5   | 0.914 | 0.088           | -0.581   |
| OP6    | 3.99 | 4      | 1   | 5   | 0.906 | -0.45           | -0.499   |
| OP7    | 4.031| 4      | 1   | 5   | 0.883 | -0.131          | -0.621   |
| OP8    | 2.324| 3      | 1   | 5   | 0.722 | -0.192          | -0.571   |
| OP1    | 4.072| 4      | 1   | 5   | 0.935 | -0.158          | -0.729   |
| OP2    | 3.897| 4      | 1   | 5   | 1.01  | 0.207           | -0.756   |
| OP3    | 3.763| 4      | 1   | 5   | 0.998 | -1.054          | -0.193   |
| OP4    | 4.004| 4      | 1   | 5   | 0.929 | -0.666          | -0.519   |
| EP1    | 3.802| 4      | 1   | 5   | 1.033 | -0.005          | -0.687   |
| EP2    | 3.981| 4      | 1   | 5   | 0.997 | 0.239           | -0.869   |
| EP3    | 4.023| 4      | 1   | 5   | 0.918 | 0.721           | -0.863   |
| EP4    | 3.353| 3      | 1   | 5   | 1.139 | -0.4            | -0.407   |
| EP5    | 3.821| 4      | 1   | 5   | 0.821 | -0.213          | -0.731   |
| EP6    | 4.721| 4      | 1   | 5   | 0.945 | -0.172          | -0.261   |
| EP1    | 3.82 | 4      | 1   | 5   | 0.864 | 0.382           | -0.624   |
| CP2    | 3.946| 4      | 1   | 5   | 0.893 | -0.184          | -0.484   |
| CP3    | 3.697| 4      | 1   | 5   | 0.9   | -0.304          | -0.441   |
| CP4    | 4.014| 4      | 1   | 5   | 0.936 | 0.298           | -0.783   |
| IO1    | 3.928| 4      | 1   | 5   | 0.986 | 1.148           | -1.064   |
| IO2    | 2.92 | 3      | 1   | 5   | 1.339 | -1.155          | 0.01     |
| IO3    | 2.792| 3      | 1   | 5   | 1.311 | -1.253          | -0.001   |
| IO4    | 3.779| 4      | 1   | 5   | 1.117 | -0.232          | -0.745   |
| IO5    | 3.975| 4      | 1   | 5   | 0.962 | -0.404          | -0.632   |
| IO6    | 4.002| 4      | 1   | 5   | 1.032 | 0.339           | -0.938   |
| IO7    | 3.272| 3      | 1   | 5   | 1.134 | -0.467          | -0.508   |
| EC1    | 3.831| 4      | 2   | 5   | 0.771 | -0.518          | -0.133   |
| EC2    | 3.817| 4      | 2   | 5   | 0.736 | -0.042          | -0.314   |
| EC3    | 3.802| 4      | 1   | 5   | 0.868 | 0.322           | -0.535   |
| EC4    | 3.852| 4      | 2   | 5   | 0.869 | -0.687          | -0.28    |
| GIP1   | 3.579| 4      | 1   | 5   | 1.037 | 0.453           | -0.819   |
| GIP2   | 3.371| 4      | 1   | 5   | 1.267 | -0.688          | -0.579   |
| GIP3   | 3.495| 4      | 1   | 5   | 0.929 | 0.267           | -0.597   |
| GIP4   | 3.338| 4      | 1   | 5   | 1.105 | -0.335          | -0.568   |
| GIP5   | 3.621| 4      | 1   | 5   | 0.915 | 0.767           | -0.796   |
| GIP6   | 4.068| 4      | 2   | 5   | 0.884 | -0.226          | -0.708   |
| GIP7   | 3.252| 3      | 1   | 5   | 1.064 | -0.507          | -0.216   |
| GIP8   | 3.724| 4      | 1   | 5   | 0.869 | 0.944           | -0.699   |
| GIP9   | 3.964| 4      | 1   | 5   | 0.871 | 0.459           | -0.636   |